# **MISCELLANEOUS CORRESPONDENCE**

# FOR THE

# **CLINTON POWER STATION INITIAL EXAMINATION**

AUGUST 2007



#### UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532-4352

August 7, 2007

Mr. Christopher M. Crane President and Chief Nuclear Officer Exelon Nuclear Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

SUBJECT: OPERATOR LICENSING EXAMINATION APPROVAL

Dear Mr. Crane:

The purpose of this letter is to confirm the final arrangements for the upcoming operator licensing examinations at the Clinton Power Station.

The U. S. Nuclear Regulatory Commission (NRC) has completed its review of the operator license applications in connection with this examination and will separately provide a list of approved applicants to Mr. John P. Lindsey, Training Director. Note that any examination waivers and application denials have been addressed in separate correspondence.

The NRC has approved the subject examinations and hereby authorizes you to administer the written examinations in accordance with Revision 9 of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," during the week of August 20, 2007. The NRC staff will administer the operating tests during the weeks of August 13 and August 20, 2007.

Please contact Mr. Dell McNeil at 630-829-9737 if you have any questions or identify any errors or changes in the license level (RO or SRO) or type of examination (partial or complete written examination and/or operating test) specified for each applicant.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide

C. Crane

Documents Access and Management System (ADAMS), accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely

Hironori Peterson, Chief Operations Branch Division of Reactor Safety

Docket No. 50-461 License No. NPF-62

Site Vice President - Clinton Power Station CC: Plant Manager - Clinton Power Station **Regulatory Assurance Manager - Clinton Power Station** Chief Operating Officer Senior Vice President - Nuclear Services Vice President - Operations Support Vice President - Licensing and Regulatory Affairs Manager Licensing - Clinton Power Station Senior Counsel, Nuclear, Mid-West Regional Operating Group **Document Control Desk - Licensing** Assistant Attorney General Illinois Emergency Management Agency State Liaison Officer, State of Illinois Chairman, Illinois Commerce Commission J. P. Lindsey, Training Director

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#### UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532-4352

April 25, 2007

Mr. Christopher M. Crane President and Chief Nuclear Officer Exelon Nuclear Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Dear Mr. Crane:

In a telephone conversation on April 9, 2007, between Mr. T. Pickley, Senior Instructor, and Mr. D. McNeil, Senior Operations Engineer, arrangements were made for the administration of licensing examinations at the Clinton Power Station the weeks of August 13 and August 20, 2007. In addition, the NRC will make an examination validation visit to your facility the week of July 23, 2007.

As agreed during the telephone conversation, your staff will prepare the examinations based on the guidelines in Revision 9 of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." The NRC regional office will discuss with your staff any changes that might be necessary before the examinations are administered.

Your staff has already provided the examination outline to the assigned chief examiner. To meet the above schedule, it will be necessary for your staff to furnish the written examinations, operating tests, and the supporting reference materials identified in Attachment 2 to ES-201 by July 2, 2007. Pursuant to 10 CFR 55.40(b)(3), of the Code of Federal Regulations (10 CFR 55..40(b)(3)), an authorized representative of the facility licensee shall approve the outlines, examinations, and tests before they are submitted to the NRC for review and approval. All materials shall be complete and ready to use. We request that any personal, proprietary, sensitive unclassified, or safeguards information in your response be contained in a separate enclosure and appropriately marked. Any delay in receiving the required examination and reference materials, or the submittal of inadequate or incomplete materials, may cause the examinations to be rescheduled.

In order to conduct the requested written examinations and operating tests, it will be necessary for your staff to provide adequate space and accommodations in accordance with ES-402, and to make the simulation facility available on the dates noted above. In accordance with ES-302, your staff should retain the original simulator performance data (e.g., system pressures, temperatures, and levels) generated during the dynamic operating tests until the examination results are final.

Appendix E of NUREG-1021 contains a number of NRC policies and guidelines that will be in effect while the written examinations and operating tests are being administered.

ML 071210232

#### C. Crane

To permit timely NRC review and evaluation, your staff should submit preliminary reactor operator and senior reactor operator license applications (Office of Management and Budget (OMB) approval number 3150-0090), medical certifications (OMB approval number 3150-0024), and waiver requests (if any) (OMB approval number 3150-0090) at least 30 days before the first examination date. If the applications are not received at least 30 days before the examination date, a postponement may be necessary. Signed applications certifying that all training has been completed should be submitted at least 14 days before the first examination date.

This letter contains information collections that are subject to the *Paperwork Reduction Act of 1995* (44 U.S.C. 3501 et seq.). These information collections were approved by the Office of Management and Budget, approval number 3150-0018, which expires on June 30, 2009. The public reporting burden for this collection is estimated to average 500 hours per response, including the time for reviewing instructions, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments on any aspect of this collection of information, including suggestions for reducing the burden, to the Information and Records Management Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, or by Internet electronic mail at BJS1@nrc.gov; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0018), Office of Management and Budget, Washington, D.C. 20503-0001.

The NRC may neither conduct nor sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Thank you for your cooperation in this matter. Mr. Pickley has been advised of the policies and guidelines referenced in this letter. If you have any questions regarding the NRC's examination procedures and guidelines, please contact Dell McNeil at 630-829-9737, or me at 630-829-9707.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the Electronic Reading Room page of the NRC's public Web site at <u>http://www.nrc.gov/reading-rm/adams.html</u>.

Sincerely,

Hironori Peterson, Chief Operations Branch Division of Reactor Safety

Docket No. 50-461 License No. NPF-62 To permit timely NRC review and evaluation, your staff should submit preliminary reactor operator and senior reactor operator license applications (Office of Management and Budget (OMB) approval number 3150-0090), medical certifications (OMB approval number 3150-0024), and waiver requests (if any) (OMB approval number 3150-0090) at least 30 days before the first examination date. If the applications are not received at least 30 days before the examination date, a postponement may be necessary. Signed applications certifying that all training has been completed should be submitted at least 14 days before the first examination date.

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Hironori Peterson, Chief Operations Branch Division of Reactor Safety

Docket No. 50-461 License No. NPF-62

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C. Crane

cc: Site Vice President - Clinton Power Station Plant Manager - Clinton Power Station Regulatory Assurance Manager - Clinton Power Station Chief Operating Officer Senior Vice President - Nuclear Services Vice President - Operations Support Vice President - Licensing and Regulatory Affairs Manager Licensing - Clinton Power Station Senior Counsel, Nuclear, Mid-West Regional Operating Group Document Control Desk - Licensing Assistant Attorney General Illinois Emergency Management Agency State Liaison Officer, State of Illinois Chairman, Illinois Commerce Commission

J. Lindsey, Training Department

C. Crane

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Clinton Power Station R. R. 3, Box 228 Clinton, IL 61727

U-603799 February 2, 2007

U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road Lisle, IL 60532-4352 ATTN: D. R. McNeil

> Clinton Power Station, Unit 1 Facility Operating License No. NPF-62 Docket No. 50-461

Subject: Submittal of Knowledge and Abilities (K/A) Statements That Will be Excluded From the Random Exam Generation Process

Enclosed are the K/A statements that have been excluded from the random exam generation process which Clinton Power Station (CPS) is submitting for review, comment, and approval for the Initial License Examination scheduled to start the week of August 13, 2007, for two weeks at CPS.

This letter is submitted for the K/A suppression as required by NUREG 1021, Revision 9, Supplement 1, "Operator Licensing Examination Standards for Power Reactors".

Should you have any questions concerning this letter, please contact Mr. L. T. Pickley, Senior Training Instructor, at (217) 937-4118.

Respectfully,

Bryan Hanson Site Vice President Clinton Power Station

EET/blf

Enclosure: Suppressed K/A Statements

cc: Chief, NRC Operator Licensing Branch – w/o enclosure NRC Senior Resident Inspector - Clinton Power Station – w/o enclosure

# CPS Suppressed K & As

# Clinton Power Suppressed K/As Report

System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
Control Roc	d Drive Hy	draulic System	
201001	A1.04	Ability to predict and/or monitor changes in parameters associated with operating the CONTROL ROD DRIVE HYDRAULIC SYSTEM controls including:	Head spray flow: BWR-3
201001	K1.04	Clinton is a BWR 6 and does not have this configurat Knowledge of the physical connections and/or cause- effect relationships between CONTROL ROD DRIVE HYDRAULIC SYSTEM and the	tion Head spray: BWR-3
201001	K1.05	Clinton is a BWR 6 and does not have this configurat Knowledge of the physical connections and/or cause- effect relationships between CONTROL ROD DRIVE HYDRAULIC SYSTEM and the	tion Feedwater (or reactor water cleanup)-CRD return to vessel: Plant-Specific
201001	K3.04	CRD does not return to the vessel through Feedwate Knowledge of the effect that a loss or malfunction of the CONTROL ROD DRIVE HYDRAULIC SYSTEM will have on following:	er or Reactor Water Cleanup. Head spray: BWR-3
	10.	Clinton is a BWR 6 and does not have this configuration	tion
Reactor Ma	nual Contro	of System	
201002	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
201002	2.1.28	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
201002	2.1.32	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
201002	2.1.33	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
201002	2.2.22	Clinton is a BWR 6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
201002	A1.01	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR MANUAL CONTROL SYSTEM	CRD drive water flow
201002	A1.02	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR MANUAL CONTROL SYSTEM	Control rod position
		Clinton is a BWR 6 and does not utilize this system.	

11/8/2006

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
201002	A1.03	Ability to predict and/or monitor changes in parameters associated with operating the REACTOR MANUAL CONTROL SYSTEM	Rod movement sequence lights
201002	A1.04	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR MANUAL CONTROL SYSTEM	Overall reactor power
201002	A1.05	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR MANUAL CONTROL SYSTEM	Local reactor power
201002	<b>A</b> 2.01	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR MANUAL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Rod movement sequence timer
201002	A2.02	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR MANUAL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Rod drift alarm
201002	A2.03	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR MANUAL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Select block
201002	A2.04	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR MANUAL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Control rod block
201002	A3.01	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the REACTOR MANUAL CONTROL SYSTEM including:	Control rod block actuation
201002	A3.02	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the REACTOR MANUAL CONTROL SYSTEM including:	Rod movement sequence lights
201002	A3.03	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the REACTOR MANUAL CONTROL SYSTEM including:	Rod drift alarm
201002	A3.04	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the REACTOR MANUAL CONTROL SYSTEM including:	Rod movement sequence timer malfunction alarm: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
201002	A4.01	Ability to manually operate and/or monitor in the control room:	Rod movement control switch
201002	A4.02	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Emergency in/notch override switch
201002	A4.03	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Rod drift test switch
201002	A4.04	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Timer malfunction test switch: Plant-Specific
201002	A4.05	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Rod select matrix
201002	A4.06	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Rod select matrix power switch
201002	K1.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Control rod drive hydraulic system
201002	K1.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Control rod and drive mechanism
201002	K1.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Control rod block interlocks/power operation refueling
201002	K1.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Rod block monitor: Plant-Specific
201002	K1.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Rod worth minimizer: Plant-Specific
201002	K1.06	Clinton is a BWR 6 and does not utilize this system, Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Rod sequence control system:
201002	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Process computer: Plant-Specific
201002	K1.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following:	Refueling interlocks: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
201002	K2.01	Knowledge of electrical power supplies to the following:	Select matrix
201002	K2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	CRD HCU directional control valves
201002	K3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the REACTOR MANUAL CONTROL SYSTEM will have on following:	Ability to move control rods
201002	K3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the REACTOR MANUAL CONTROL SYSTEM will have on following:	Rod block monitor: Plant-Specific
201002	K3.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the REACTOR MANUAL CONTROL SYSTEM will have on following:	Ability to process rod block signals
201002	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Detection of sequence timer malfunction
201002	K4.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Control rod blocks
201002	K4.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Detection of drifting control rods
201002	K4.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Single notch rod withdrawal and insertion
201002	K4.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Notch override rod withdrawal
201002	K4.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Emergency in rod insertion
201002	K4.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Timing of rod insert and withdrawal cycles (rod movement sequence timer)
201002	K4.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR MANUAL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Continuous In rod insertion
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
201002	K6.01	Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR MANUAL CONTROL SYSTEM:	Select matrix power
	_	Clinton is a BWR 6 and does not utilize this system.	
Rod Seque	nce Contro	System (Plant Specific)	
201004	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
201004	2.1.28	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
201004	2.1.32	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
201004	2.1.33	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
201004	2.2.22	Clinton is a BWR-6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
201004	A1.01	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters, associated with operating the ROD SEQUENCE CONTROL SYSTEM controls including:	Reactor manual control system: BWR-4, 5
201004	A2.01	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD SEQUENCE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Loss of rod position information: BWR-4, 5
201004	A2.02	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD SEQUENCE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Attempting to move a stuck control rod: BWR-4, 5
201004	A2.03	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD SEQUENCE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Turbine trip: BWR-4, 5
201004	A3.01	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	Rod select switch light: BWR-4, 5
201004	A3.02	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	Rod select bottom lamp dimmer logic:
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
201004	A3.03	Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	Back panel indicators: BWR-4, 5
201004	A3.04	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	Annunciator and alarm signals: BWR-4, 5
201004	A3.05	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	Verification of proper function/ operability: BWR-4, 5
201004	A4.01	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System bypass switches: BWR-4, 5
201004	A4.02	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	RSCS console switches and indicators: BWR-4, 5
201004	A4.03	<i>Clinton is a BWR-6 and does not utilize this system.</i> Ability to manually operate and/or monitor in the control room:	RSCS back panel switches and indicators: BWR-4, 5
201004	K1.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD SEQUENCE CONTROL SYSTEM and the	Reactor manual control system: BWR-4, 5
201004	K1.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD SEQUENCE CONTROL SYSTEM and the	Turbine generator system: BWR-4, 5
201004	K1.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD SEQUENCE CONTROL SYSTEM and the	Rod position information system: BWR-4, 5
201004	K1.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD SEQUENCE CONTROL SYSTEM and the	Rod worth minimizer: BWR-4, 5
201004	<b>K</b> 3.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ROD SEQUENCE CONTROL SYSTEM will have on following:	Reactor manual control: BWR-4, 5
201004	K4.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Select blocks: BWR-4, 5
201004	K4.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Insert rod blocks: BWR-4, 5
201004	K4.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Withdraw rod blocks: BWR-4, 5
		Clinton is a BWR-6 and does not utilize this system.	

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System	No. K/A No.	Category	K/A Statement
		Suppression Basis	
201004	K4.04	Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	RSCS bypass as reactor power increases: BWR-4, 5
201004	K4.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Rod movement, direction, and selection information: BWR-4, 5
201004	K4.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Group notch control: BWR-4, 5
201004	K4.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Minimizing rod worth: BWR-4, 5
201004	<b>K5</b> .01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD SEQUENCE CONTROL SYSTEM:	Prevention of clad damage if a control rod drop accident (CRDA) occurs: BWR-4, 5
201004	K5.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD SEQUENCE CONTROL SYSTEM:	Sequences and groups: BWR-4, 5
201004	K5.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD SEQUENCE CONTROL SYSTEM:	Group notch control limits and rod density: BWR-4, 5
201004	K6.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD SEQUENCE CONTROL SYSTEM:	Rod position information: BWR-4, 5
201004	K6.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD SEQUENCE CONTROL SYSTEM:	Rod direction information: BWR-4, 5
201004	K6.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD SEQUENCE CONTROL SYSTEM:	Rod movement information: BWR-4, 5
201004	K6.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD SEQUENCE CONTROL SYSTEM:	Turbine generator (1st stage shell pressure): BWR-4, 5
		Clinton is a BWR-6 and does not utilize this system.	
Rod We	orth Minimizer	System (RWM) (Plant	
201006	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
201006	2.1.28	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
201006	2.1.32	Conduct of Operations	Ability to explain and apply system limits and precautions.
201006	2.1.33	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
201006	2.2.22	Clinton is a BWR 6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
201006	A1.01	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ROD WORTH MINIMIZER SYSTEM (RVM) controls including:	Rod position: P-Spec(Not-BWR6)
201006	A1.02	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ROD WORTH MINIMIZER SYSTEM (RWM) controls including:	Status of control rod movement blocks; P-Spec(Not-BWR6)
201006	A1.03	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ROD WORTH MINIMIZER SYSTEM (RWM) controls including:	Latched group indication:
201006	A2.01	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Power supply loss: P-Spec(Not-BWR6)
201006	A2.02	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Loss of steam flow input:
201006	A2.03	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Rod drift: P-Spec(Not-BWR6)
201006	A2.04	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Stuck rod: P-Spec(Not-BWR6)
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
-		Suppression Basis	
201006	A2.05	Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Out of sequence rod movement; P-Spec(Not-BWR6)
201006	A2.06	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Loss of reactor water level control input: P-Spec(Not-BWR6)
201006	A2.07	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD WORTH MINIMIZER SYSTEM (RVM); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	RVM hardware/software failure: P-Spec(Not-BWR6)
201006	A3.01	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ROD WORTH MINIMIZER SYSTEM (RWM)	System window and light indication: P-Spec(Not-BWR6)
201006	A3.02	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD WORTH MINIMIZER SYSTEM (RWM)	Verification of proper functioning/ operability: P-Spec(Not-BWR6)
201006	A3.03	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD WORTH MINIMIZER SYSTEM (RWM)	Annunciator and alarm signals: P-Spec(Not-BWR6)
201006	A3.04	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD WORTH MINIMIZER SYSTEM (RVM)	Control rod movement blocks: P-Spec(Not-BWR6)
201006	A3.05	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD WORTH MINIMIZER SYSTEM (RVM)	Latched group indication:
201006	A4.01	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System bypass switch: P-Spec(Not-BWR6)
201006	A4.02	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room;	Pushbutton indicating switches: P-Spec(Not-BWR6)
201006	A4.03	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Latched group indication:
201006	A4.04	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Rod withdrawal error indication: P-Spec(Not-BWR6)
201006	A4.05	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room;	Rod insert error indication:
201006	A4.06	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Selected rod position indication: P-Spec(Not-BWR6)
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
201006	K1.01	Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Reactor manual control: P-Spec(Not-BWR6)
201006	K1.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RVM) and the	Rod position indication system: P-Spec(Not-BWR6)
201006	K1.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Reactor water level control (feed flow): P-Spec(Not-BWR6)
201006	K1.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Steam flow/reactor power:
201006	K1.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Control rod drop accident:
201006	K1.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Rod sequence control system; P-Spec(Not-BWR6)
201006	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RWM) and the	Process computer: P-Spec(Not-BWR6)
201006	K1.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD WORTH MINIMIZER SYSTEM (RVM) and the	Reactor power (turbine first stage pressure): P-Spec(Not-BWR6)
201006	K2.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Rod worth minimizer: P-Spec(Not-BWR6)
201006	K3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ROD WORTH MINIMIZER SYSTEM (RVM) will have on following:	Reactor manual control system: P-Spec(Not-BWR6)
201006	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RVVM) design feature(s) and/or interlocks which provide for the following:	Insert blocks/errors: P-Spec(Not-BWR6)
201006	K4.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RVM) design feature(s) and/or interlocks which provide for the following:	Withdraw blocks/errors: P-Spec(Not-BWR6)
201006	K4.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RVM) design feature(s) and/or interlocks which provide for the following:	Select blocks/errors: P-Spec(Not-BWR6)
		Clinton is a BWR 6 and does not utilize this system.	

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
201006	K4.04	Knowledge of ROD WORTH MINIMIZER SYSTEM (RVM) design feature(s) and/or interlocks which provide for the following:	System bypass: P-Spec(Not-BWR6)
201006	K4.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RWM) design feature(s) and/or interlocks which provide for the following:	Substitute rod position data:
201006	K4.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RWM) design feature(s) and/or interlocks which provide for the following:	Correction of out of sequence rod positions: P-Spec(Not-BWR6)
201006	K4.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RWM) design feature(s) and/or interlocks which provide for the following:	Display of out of position control rods without rod blocks (transition zone):
201006	K4.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RWM) design feature(s) and/or interlocks which provide for the following:	System testing: P-Spec(Not-BWR6)
201006	K4.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD WORTH MINIMIZER SYSTEM (RWM) design feature(s) and/or interlocks which provide for the following:	System initialization: P-Spec(Not-BWR6)
201006	K5.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Minimize clad damage if a control rod drop accident (CRDA) occurs:
201006	K5.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Low power set point: P-Spec(Not-BWR6)
201006	K5.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Low power alarm point (LPAP): P-Spec(Not-BWR6)
201006	K5.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Transition zone: P-Spec(Not-BWR6)
201006	K5.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	High power set point: P-Spec(Not-BWR6)
201006	K5.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Rod groups and steps: P-Spec(Not-BWR6)
201006	K5.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Latch groups: P-Spec(Not-BWR6)
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
201006	K5.08	Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Operating sequence: P-Spec(Not-BWR6)
201006	K5.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	Select error: P-Spec(Not-BWR6)
201006	<b>K5</b> .10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	Withdraw error: P-Spec(Not-BWR6)
201006	K5.11	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	Insert error: P-Spec(Not-BWR6)
201006	K5.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RVM):	Withdraw block: P-Spec(Not-BWR6)
201006	K5.13	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	Insert block: P-Spec(Not-BWR6)
201006	K5.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD WORTH MINIMIZER SYSTEM (RWM):	Alternate withdraw and insert limits: P-Spec(Not-BWR6)
201006	K6.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD WORTH MINIMIZER SYSTEM (RWM):	RVM power supply: P-Spec(Not-BWR6)
201006	K6.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD WORTH MINIMIZER SYSTEM (RWM):	Reactor water level control input: P-Spec(Not-BWR6)
201006	K6.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD WORTH MINIMIZER SYSTEM (RWM):	Rod position indication: P-Spec(Not-BWR6)
201006	K6.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD WORTH MINIMIZER SYSTEM (RWM):	Process computer: P-Spec(Not-BWR6)
201006	K6.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD WORTH MINIMIZER SYSTEM (RWM):	Steam flow input: P-Spec(Not-BWR6)
	_	Clinton is a BWR 6 and does not utilize this system.	
Recirculatio	on System		

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
202001	A2.09	Ability to (a) predict the impacts of the following on the RECIRCULATION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Recirculation scoop tube lockup:
202001	K1.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RECIRCULATION SYSTEM and the following:	Rod block monitor: Plant-Specific
202001	K1.24	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RECIRCULATION SYSTEM and the following:	Isolation condenser: Plant-Specific
202001	K2.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	MG set oil pumps: Plant-Specific
202001	K3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RECIRCULATION SYSTEM will have on following:	Load following capabilities: Plant-Specific
202001	K3.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RECIRCULATION SYSTEM will have on following:	Isolation condenser: Plant-Specific
202001	K4.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of RECIRCULATION System design feature(s) and/or interlocks which provide for the following:	Oil pump automatic starts: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Recirculatio	on Flow Co	ontrol System	
202002	A2.05	Ability to (a) predict the impacts of the following on the RECIRCULATION FLOW CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Scoop tube lockup: BWR-2, 3, 4
202002	A3.03	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the RECIRCULATION FLOW CONTROL SYSTEM including:	Scoop tube operation: BWR-2, 3, 4
202002	A4.06	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Scoop tube power: BWR-2, 3, 4
202002	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of RECIRCULATION FLOW CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Scoop tube break: Plant-Specific
202002	K4.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of RECIRCULATION FLOW CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic load following: Plant-Specific
		Clinton does not utilize this function.	

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
202002	K4.08	Knowledge of RECIRCULATION FLOW CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic flow control valve positioning: BWR-5, 6
202002	K5.01	Clinton does not utilize this function. Knowledge of the operational implications of the following concepts as they apply to RECIRCULATION FLOW CONTROL SYSTEM:	Fluid coupling: BWR-3, 4
RHR/LPC	I: Injection	Clinton is a BWR 6 and does not utilize this configure Mode (Plant Specific)	ation.
203000	A2.15	Ability to (a) predict the impacts of the following on the RHR/LPCI: INJECTION MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loop selection logic failure: Plant-Specific
203000	A3.07	Clinton is a BWR 6 and does not utilize this configur Ability to monitor automatic operations of the RHR/LPCI: INJECTION MODE including:	ation. Loop selection: Plant-Specific
203000	A4.12	Clinton is a BWR 6 and does not utilize this configur Ability to manually operate and/or monitor in the control room:	ation. Condensate storage tank level:
203000	A4.14	Clinton is a BWR 6 and does not utilize this function. Ability to manually operate and/or monitor in the control room:	Testable check valves
203000	K1.05	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: INJECTION MODE and the following:	ation, Recirculation system: BWR-3, 4
203000	K4.11	Clinton is a BWR 6 and does not utilize this configur Knowledge of RHR/LPCI: INJECTION MODE design feature(s) and/or interlocks which provide for the following:	ation. Loop selection logic: Plant-Specific
203000	K5.01	Clinton is a BWR 6 and does not utilize this configur. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: INJECTION MODE:	ation. Testable check valve operation
Reactor W	ater Cleanu	Clinton is a BWR 6 and does not utilize this configur	ation.
204000	A2.02	Ability to (a) predict the impacts of the following on the REACTOR WATER CLEANUP SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Pressure control valve failure: LP-RWCU
204000	A3.01	Clinton utilizes a HP RWCU system. Ability to monitor automatic operations of the REACTOR WATER CLEANUP SYSTEM	System pressure downstream of the pressure regulating valve: LP-RWCU
204000	K4.08	Clinton utilizes a HP RWCU system. Knowledge of REACTOR WATER CLEANUP SYSTEM design feature(s) and/or interlocks which provide for the following:	Reducing reactor pressure upstream of low pressure piping: LP-RWCU
		Clinton utilizes a HP RWCU system.	

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### System No. K/A No. Category

#### Suppression Basis

Shutdown Cooling System (RHR Shutdown

205000	A2.11	Ability to (a) predict the impacts of the following on the SHUTDOWN COOLING SYSTEM/MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Recirculation pump trips: Plant-Specific
205000	K1.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between SHUTDOWN COOLING SYSTEM (RHR SHUTDOWN COOLING MODE) and the following:	Auxiliary steam supply: Plant-Specific
205000	K1.11	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between SHUTDOWN COOLING SYSTEM (RHR SHUTDOWN COOLING MODE) and the following:	Nitrogen: Plant-Specific
205000	K1.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between SHUTDOWN COOLING SYSTEM (RHR SHUTDOWN COOLING MODE) and the following:	Isolation condenser: Plant-Specific
205000	K6.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the SHUTDOWN COOLING SYSTEM/MODE:	Nitrogen: Plant-Specific
	<b>O I</b>	Clinton is a BWR 6 and does not utilize this system.	
High Pressi	ire Coolant	Injection System	
206000	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
206000	2.1.28	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
206000	2.1.32	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
206000	2.1.33	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
206000	2.2.22	Clinton is a BWR-6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
206000	A1.01	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Reactor water level: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

K/A Statement

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System N	lo. K/A No.	Category	K/A Statement
		Suppression Basis	
206000	A1.02	Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Reactor pressure: BWR-2, 3, 4
206000	A1.03	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Condensate storage tank level: BWR-2, 3, 4
206000	A1.04	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Suppression pool level: BWR-2, 3, 4
206000	A1.05	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Suppression pool temperature: BWR-2, 3, 4
206000	A1.06	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	System flow: BWR-2, 3, 4
206000	A1.07	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	System discharge pressure: BWR-2, 3, 4
206000	A1.08	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	System lineup: BWR-2, 3, 4
206000	A1.09	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls including:	Turbine speed: BWR-2, 3, 4
206000	A2.01	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Turbine trips: BWR-2, 3, 4
206000	A2.02	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Clinton is a BWR-6 and does not utilize this system.	Valve closures: BWR-2, 3, 4

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
206000	A2.03	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Valve openings: BWR-2, 3, 4
206000	A2.04	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	A.C. failures: BWR-2, 3, 4
206000	A2.05	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	D.C. failures: BWR-2, 3, 4
206000	A2.06	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR-6 and does not utilize this system</i>	Inadequate system flow: BWR-2, 3, 4
206000	A2.07	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Low suppression pool level: BWR-2, 3, 4
206000	A2.08	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR-6 and does not utilize this system.</i>	High suppression pool temperature: BWR-2, 3, 4
206000	A2.09	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Clinton is a BWR-6 and does not utilize this system.	Low condensate storage tank level: BWR-2,
206000	A2.10	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR</i> -6 and does not utilize this system.	System isolation: BWR-2, 3, 4

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
206000	A2.11	Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Low reactor water level: BWR-2, 3, 4
206000	A2.12	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loss of room cooling: BWR-2, 3, 4
206000	A2.13	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loss of applicable plant air systems: BWR-2, 3, 4
206000	A2.14	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Flow controller failure: BWR-2, 3, 4
206000	A2.15	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loss of control oil pressure: BWR-2, 3, 4
206000	A2.16	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	High drywell pressure: BWR-2, 3, 4
206000	A2.17	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	HPCI inadvertent initiation: BWR-2, 3, 4
206000	A3.01	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Turbine speed: BWR-2, 3, 4
206000	A3.02	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	System Flow: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
206000	A3.03	Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	System lineup: BWR-2, 3, 4
206000	A3.04	Clinton is a BWR-6 and does not utilize this system, Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Reactor pressure: BWR-2, 3, 4
206000	A3.05	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Reactor water level: BWR-2, 3, 4
206000	A3.06	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	System discharge pressure: BWR-2, 3, 4
206000	A3.07	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Lights and alarms: BWR-2, 3, 4
206000	A3.08	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Condensate storage tank level: BWR-2, 3, 4
206000	A3.09	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) including:	Response to system isolation: BWR-2, 3, 4
206000	A4.01	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Turbine speed controls: BWR-2, 3, 4
206000	A4.02	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Flow controller: BWR-2, 3, 4
206000	A4.03	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Turbine temperatures: BWR-2, 3, 4
206000	A4.04	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Major system valves: BWR-2, 3, 4
206000	A4.05	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Reactor water level: BWR-2, 3, 4
206000	A4.06	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Reactor pressure: BWR-2, 3, 4
206000	A4.07	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Condensate storage tank level: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
206000	A4.08	Ability to manually operate and/or monitor in the control room:	Suppression pool temperature: BWR-2, 3, 4
206000	A4.09	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Suppression pool level: BWR-2, 3, 4
206000	A4.10	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System pumps: BWR-2, 3, 4
206000	A4.11	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Turning gear: BWR-2, 3, 4(P-Spec)
206000	A4.12	<i>Clinton is a BWR-6 and does not utilize this system.</i> Ability to manually operate and/or monitor in the control room:	Turbine trip controls: BWR-2, 3, 4
206000	A4.13	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Turbine reset control: BWR-2, 3, 4
206000	A4.14	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System auto start control: BWR-2, 3,
206000	K1.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Reactor vessel: BWR-2, 3, 4
206000	K1.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Reactor water level: BWR-2, 3, 4
206000	K1.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Reactor pressure: BWR-2, 3, 4
206000	K1.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Reactor feedwater system: BWR-2, 3, 4
206000	K1.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Condensate storage system: BWR-2, 3, 4
206000	<b>K</b> 1. <b>0</b> 6	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Suppression chamber: BWR-2, 3, 4
206000	K1.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	D.C. power: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
206000	K1,08	Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	A.C. power: BWR-2, 3, 4
206000	K1.09	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	ECCS keep fill system: BWR-2, 3,
206000	K1.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Condensate storage and transfer system: BWR-2, 3, 4
206000	K1.11	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	PCIS: BWR-2, 3, 4
206000	K1.12	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Nuclear boiler instrumentation: BWR-2, 3, 4
206000	K1.13	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Main condenser: BWR-2, 3, 4(P-Spec)
206000	K1.14	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	SBGT: BWR-2, 3, 4(P-Spec)
206000	K1.15	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Plant air systems: BWR-2, 3, 4
206000	K1.16	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM	Containment/Torus pressure: BWR-2, 3, 4
206000	<b>K2</b> .01	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	System valves: BWR-2, 3, 4
206000	K2.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	System pumps: BWR-2, 3, 4
206000	K2.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Initiation logic: BWR-2, 3, 4
206000	K2.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Turbine control circuits: BWR-2, 3, 4
206000	K3.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the HIGH PRESSURE COOLANT INJECTION SYSTEM will have on following:	Reactor water level control: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
206000	K3.02	Knowledge of the effect that a loss or malfunction of the HIGH PRESSURE COOLANT INJECTION SYSTEM will have on following:	Reactor pressure control: BWR-2, 3, 4
206000	K3.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the HIGH PRESSURE COOLANT INJECTION SYSTEM will have on following:	Suppression pool level control: BWR-2, 3, 4
206000	K4.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Turbine trips: BWR-2, 3, 4
206000	K4.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	System isolation: BWR-2, 3, 4
206000	K4.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Resetting turbine trips: BWR-2, 3, 4
206000	K4.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Resetting system isolations: BWR-2, 3, 4
206000	K4.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Preventing water hammer in turbine exhaust line (procedural control): BWR-2, 3, 4
206000	K4.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Preventing water hammer in pump discharge line (procedural control ): BWR-2, 3, 4
206000	K4.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic system initiation: BWR-2, 3, 4
206000	K4.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Manual system initiation: BWR-2, 3, 4
206000	K4.09	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic flow control: BWR-2, 3, 4
206000	K4.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Surveillance for all operable components: BWR-2, 3, 4
206000	K4.11	Clinton is a BWR-6 and does not utilize this system. Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Turbine speed control: BWR-2, 3, 4
		Clinton is a BWR-6 and does not utilize this system.	

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System No. K/A No	. Category	K/A Statement
	Suppression Basis	
206000 K4.12	Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Condensation of shaft sealing steam: BWR-2, 3, 4
206000 K4.13	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Turbine and pump lubrication: BWR-2, 3, 4
206000 K4.14	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Control oil to turbine speed controls: BWR-2, 3, 4
206000 K4.15	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Low speed turning of the turbine rotor: BWR-2, 3, 4(P-Spec)
206000 K4.16	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Minimizing fission product concentration in the condensate storage tank (valve closures on system initiation): BWR-2, 3, 4(P-Spec)
206000 K4.17	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Protection against draining the condensate storage tank to the suppression pool: BWR-2, 3, 4
206000 K4.18	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Pump minimum flow: BWR-2, 3, 4
206000 K4.19	Clinton is a BWR-6 and does not utilize this system Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic transfer of HPCI pump suction: BWR-2, 3, 4
206000 K5.01	Clinton is a BWR-6 and does not utilize this system Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Turbine operation: BWR-2, 3, 4
206000 K5.02	Clinton is a BWR-6 and does not utilize this system Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Turbine shaft sealing: BWR-2, 3, 4
206000 K5.03	Clinton is a BWR-6 and does not utilize this system Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	GEMAC controllers: BWR-2, 3, 4(P-Spec)
206000 K5.04	Clinton is a BWR-6 and does not utilize this system Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Indications of pump cavitation: BWR-2, 3, 4
206000 K5.05	Clinton is a BWR-6 and does not utilize this system Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	: Turbine speed control: BWR-2, 3, 4
	Clinton is a BWR-6 and does not utilize this system	

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System No. K/A No.	Category	K/A Statement
	Suppression Basis	
206000 K5.06	Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Turbine speed measurement: BWR-2, 3, 4
206000 K5.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	System venting: BWR-2, 3, 4
206000 K5.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Vacuum breaker operation: BWR-2, 3, 4
206000 K5.09	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Testable check valve operation: BWR-2, 3,
206000 K5.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH PRESSURE COOLANT INJECTION SYSTEM:	Assist core cooling: BWR-2, 3, 4
206000 K6.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Plant air systems: BWR-2, 3, 4
206000 K6.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	D.C. power: BWR-2, 3, 4
206000 K6.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	A.C. power: BWR-2, 3, 4
206000 K6.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Condensate storage tank level: BWR-2, 3, 4
206000 K6.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Suppression pool level: BWR-2, 3, 4
206000 K6.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	SBGTS: BWR-2, 3, 4(P-Spec)
206000 K6.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	ECCS keep fill system: BWR-2, 3,
206000 K6.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Reactor pressure: BWR-2, 3, 4
	Clinton is a BWR-6 and does not utilize this system.	

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System N	o. K/A No.	Category	K/A Statement
		Suppression Basis	
206000	K6.09	Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Condensate storage and transfer system: BWR-2, 3, 4
206000	K6.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	PCIS: BWR-2, 3, 4
206000	K6.11	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Nuclear boiler instrumentation: BWR-2, 3, 4
206000	K6.12	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the HIGH PRESSURE COOLANT INJECTION	Reactor water level: BWR-2, 3, 4
Lesler	<b>F</b> X	Clinton is a BWR-6 and does not utilize this system.	
Isolation (	Emergency,	Condenser	Mar today from the state
207000	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
207000	2.1.28	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
207000	2.1.32	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
207000	2.1.33	Clinton is a BWR-6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
207000	2.2.22	Clinton is a BWR-6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
207000	A1.01	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including;	Isolation condenser level: BWR-2, 3
207000	A1.02	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including;	Shell side water temperature: BWR-2, 3
207000	A1.03	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Steam flow: BWR-2, 3
		Clinton is a BWR-6 and does not utilize this system.	

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System No. K/A No.	Category	K/A Statement
	Suppression Basis	
207000 A1.04	Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Condensate flow: BWR-2, 3(P-Spec)
207000 A1.05	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Reactor pressure: BWR-2, 3
207000 A1.06	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Reactor water level: BWR-2, 3
207000 A1.07	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Vent radiation level: BWR-2, 3
207000 A1.08	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Cooldown rate: BWR-2, 3
207000 A1.09	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Valve operations: BWR-2, 3
207000 A1.10	Clinton is a BWR-6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ISOLATION (EMERGENCY) CONDENSER controls including:	Primary side temperature: BWR-2, 3
207000 A2.01	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	Tube bundle leak: BWR-2, 3
207000 A2.02	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	High vent radiation: BWR-2, 3
207000 A2.03	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	PCIS signal resulting in system isolation: BWR-2, 3
	Clinton is a BWR-6 and does not utilize this system.	
	Cirriton is a brirk-o and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
207000	A2.04	Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	Inadequate system flow: BWR-2, 3
207000	A2.05	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	Insufficient shell side makeup flow: BWR-2,
207000	A2.06	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	Valve openings: BWR-2, 3
207000	A2.07	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	Valve closures: BWR-2, 3
207000	A2.08	Clinton is a BWR-6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	System initiation: BWR-2, 3
207000	A3.01	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Isolation condenser level: BWR-2, 3
207000	A3.02	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Reactor pressure: BWR-2, 3
207000	A3.03	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Reactor water level: BWR-2, 3
207000	A3.04	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Vent radiation levels: BWR-2, 3
207000	A3.05	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	System lineup: BWR-2, 3
207000	A3.06	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Lights and alarms: BWR-2, 3
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
207000	A3.07	Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	Primary and shell side temperatures:
207000	A3.08	Clinton is a BWR-6 and does not utilize this system. Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including:	System flow: BVVR-2, 3
207000	A4.01	Clinton is a BWR-δ and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Isolation condenser level: BWR-2, 3
207000	A4.02	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Steam line pressure: BWR-2, 3
207000	A4.03	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Primary and shell side temperatures:
207000	A4.04	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Vent line radiation levels: BWR-2, 3
207000	A4.05	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Major system valves: BWR-2, 3
207000	A4.06	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Shell side makeup valves: BWR-2, 3
207000	A4.07	Clinton is a BWR-6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Manually initiate the isolation condenser BWR-2, 3
207000	K1.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Reactor vessel: BWR-2, 3
207000	K1.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Reactor pressure: BWR-2, 3
207000	K1.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Reactor water level: BWR-2, 3
207000	K1.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Condensate transfer system: BWR-2, 3
207000	K1.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Demineralized water system: BWR-2,
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
207000	K1.06	Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Fire protection/service water: BWR-2, 3
207000	K1.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	LPCI: BWR-2, 3(P-Spec)
207000	К1.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Recirculation system: BWR-2, 3
207000	K1.09	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Main steam system: BWR-2, 3
207000	K1.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Plant air systems: BWR-2, 3
207000	<b>K</b> 1.11	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ISOLATION (EMERGENCY) CONDENSER and the following:	Primary containment isolation system:
207000	<b>K2.0</b> 1	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Motor operated valves: BWR-2, 3
207000	K2.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Initiation logic: BWR-2, 3
207000	K3.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ISOLATION (EMERGENCY) CONDENSER will have on following:	Reactor pressure control during conditions in which the reactor vessel is isolated:
207000	K3.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ISOLATION (EMERGENCY) CONDENSER will have on following:	Reactor water level (EPG's address the isolation condenser as a water source):
207000	K4.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Isolation of the system in the event of a line break: BWR-2, 3
207000	K4.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Automatic initiation: BWR-2, 3
207000	K4.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Filling of the system: BWR-2, 3
		Clinton is a BWR-6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
207000	K4.04	Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Steam and condensate flow indication: BWR-2, 3
207000	K4.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Detection of a tube bundle leak: BWR-2, 3
207000	K4.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Throttling of system flow: BWR-2, 3
207000	K4.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Manual operation of the system: BWR-2, 3
207000	K4.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of ISOLATION (EMERGENCY) CONDENSER design feature(s) and/or interlocks which provide for the following:	Protection against incomplete steam condensation (condensate outlet valve does not fully open): BWR-2,3,(P-Spec)
207000	K5.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Flow measurement across an elbow using differential pressure: BWR-2, 3
207000	K5.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Heat exchanger operation: BWR-2, 3
207000	K5.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Heat transfer: BWR-2, 3
207000	K5.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Latent heat of vaporization: BWR-2, 3
207000	<b>K5</b> .05	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Saturated steam: BWR-2, 3
207000	K5.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Saturated liquid: BWR-2, 3
207000	K5.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Temperature sensing: BWR-2, 3
207000	K5.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Level indicator operation: BWR-2, 3
		Clinton is a BWR-6 and does not utilize this system.	

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	System No.	K/A No.	Category	K/A Statement
			Suppression Basis	
	207000	K5.09	Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	Cooldown rate: BWR-2, 3
:	207000	K5.10	Clinton is a BWR-6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	System venting: BWR-2, 3
:	207000	K6.01	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Demineralized water system: BWR-2,
:	207000	K6.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Fire protection/service water system:
:	207000	K6.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Condensate transfer system: BWR-2, 3
:	207000	K6.04	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Plant air systems: BWR-2, 3
:	207000	K6.05	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Primary containment isolation system:
:	207000	K6.06	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	Recirculation system: BWR-2, 3
:	207000	K6.07	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	A.C. power: BWR-2, 3
:	207000	K6.08	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ISOLATION (EMERGENCY) CONDENSER:	D.C. power: BWR-2, 3
	L D	<b>C C</b>	Clinton is a BWR-6 and does not utilize this system.	
	Low Pressui	re Core Sp	ray System	Loss of fire contentions, DMD 4
	209001	A2.11	Ability to (a) predict the impacts of the following on the LOW PRESSURE CORE SPRAY SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or	Loss of fire protection: DVVR-1
2	209001	A4.06	<i>Clinton is a BWR-6 and does not utilize this feature.</i> Ability to manually operate and/or monitor in the control room:	Testable check valves
			Clinton does not utilize this function.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
209001	A4.14	Ability to manually operate and/or monitor in the control room:	Containment level: BWR-1
209001	K5.06	Clinton is a BWR-6 and does not utilize this feature. Knowledge of the operational implications of the following concepts as they apply to LOW PRESSURE CORE SPRAY SYSTEM:	Recirculation operation:
209001	K6.09	Clinton is a BWR-6 and does not utilize this feature. Knowledge of the effect that a loss or malfunction of the following will have on the LOW PRESSURE CORE SPRAY SYSTEM:	Fire protection: BWR-1
		Clinton is a BWR-6 and does not utilize this feature.	
High Pressu	re Core Sp	ray System (HPCS)	
209002	A4.06	Ability to manually operate and/or monitor in the control room:	Testable check valve: BWR-5, 6
209002	K1.13	Clinton removed this function. Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE CORE SPRAY SYSTEM (HPCS)	Instrument nitrogen: BWR-5, 6
		Clinton is a BWR 6 and does not utilize this configura	ntion.
Standby Liq	uid Contro	ol System	
211000	A3.08	Ability to monitor automatic operations of the STANDBY LIQUID CONTROL SYSTEM	System initiation: Plant-Specific
		Clinton does not have automatic SLC system initiation	n; therefore, operators cannot be expected
211000	K1.10	Knowledge of the physical connections and/or cause- effect relationships between STANDBY LIQUID CONTROL SYSTEM and the following:	HPCI: Plant-Specific
211000	K4.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of STANDBY LIQUID CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Dampening of positive displacement pump discharge oscillations (accumulators): Plant-Specific
211000	K5.05	Clinton is a BWR 6 and does not utilize this configure Knowledge of the operational implications of the following concepts as they apply to STANDBY LIQUID CONTROL SYSTEM:	ation. Accumulator operation: Plant-Specific
211000	K6.05	Clinton is a BWR 6 and does not utilize this configura Knowledge of the effect that a loss or malfunction of the following will have on the STANDBY LIQUID CONTROL SYSTEM:	ntion. HPCI system: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Reactor Prof	tection Sys	tem	
212000	A1.01	Ability to predict and/or monitor changes in parameters associated with operating the REACTOR PROTECTION SYSTEM controls	RPS motor-generator output voltage
212000	A1.02	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR PROTECTION SYSTEM controls	RPS motor-generator output amps
		Clinton is a BWR 6 and does not utilize this system.	

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System	No. K/A No.	Category	K/A Statement
		Suppression Basis	
212000	A1.03	Ability to predict and/or monitor changes in parameters associated with operating the REACTOR PROTECTION SYSTEM controls	RPS motor-generator output frequency: Plant-Specific
212000	A1.09	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the REACTOR PROTECTION SYSTEM controls	Individual relay status: Plant-Specific
212000	A2.01	Clinton is a BWR 6 and uses a solid state system. Ability to (a) predict the impacts of the following on the REACTOR PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	RPS motor-generator set failure
212000	A2.19	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Partial system activation (half-SCRAM)
212000	A2.21	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Failure of individual relays to reposition: Plant-Specific
212000	A3.02	Clinton is a BWR 6 and utilizes a solid state system. Ability to monitor automatic operations of the REACTOR PROTECTION SYSTEM including:	Individual system relay status:
212000	A4.03	Clinton is a BWR 6 and utilizes a solid state system. Ability to manually operate and/or monitor in the control room:	Provide manual select rod insertion: Plant-Specific
212000	A4.08	Clinton is a BWR 6 and does not utilize this function. Ability to manually operate and/or monitor in the control room:	Individual system relay status:
212000	<b>K2</b> .01	Clinton is a BWR 6 and utilizes a solid state system. Knowledge of electrical power supplies to the following:	RPS motor-generator sets
212000	K4.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR PROTECTION SYSTEM design feature(s) and/or interlocks which provide for the following:	Select rod insertion: Plant-Specific
Rod Pos	ition Informat	Clinton is a BWR 6 and does not utilize this function.	
214000	K1.01	Knowledge of the physical connections and/or cause- effect relationships between ROD POSITION INFORMATION SYSTEM and the	RVM: Plant-Specific
214000	K1.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD POSITION INFORMATION SYSTEM and the	RSCS: Plant-Specific
		Clinton is a BWR-6 and does not utilize this system.	

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System N	o. K/A No.	Category	K/A Statement
		Suppression Basis	
214000	K1.04	Knowledge of the physical connections and/or cause- effect relationships between ROD POSITION INFORMATION SYSTEM and the	RMCS: Plant-Specific
214000	K3.01	Clinton is a BWR 6 and does not utilize this function. Knowledge of the effect that a loss or malfunction of the ROD POSITION INFORMATION SYSTEM will have on following:	RVM: Plant-Specific
214000	K3.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or matfunction of the ROD POSITION INFORMATION SYSTEM will have on following:	RSCS: Plant-Specific
214000	K3.03	Clinton is a BWR-6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ROD POSITION INFORMATION SYSTEM will have on following:	RMCS: Plant-Specific
		Clinton is a BWR 6 and does not utikize this function	<i>15.</i>
Traversing	g In-Core Pr	obe	
215001	A1.03	Ability to predict and/or monitor changes in parameters associated with operating the TRAVERSING IN-CORE PROBE controls	Valve status: Mark-I&II(Not-BWR1)
215001	A2.01	Clinton is a BWR 6 and does not utilize this configur Ability to (a) predict the impacts of the following on the TRAVERSING IN-CORE PROBE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	ation. Low reactor water level:
215001	A2.02	Clinton is a BWR 6 and does not utilize this configur Ability to (a) predict the impacts of the following on the TRAVERSING IN-CORE PROBE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	ation. High primary containment pressure: Mark-I&II(Not-BWR1)
215001	A2.06	Clinton is a BWR 6 and does not utilize this configur Ability to (a) predict the impacts of the following on the TRAVERSING IN-CORE PROBE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	a <i>tion.</i> Valve closures: Mark-I&II(Not-BWR1)
215001	A2.07	Clinton is a BWR 6 and does not utilize this configur Ability to (a) predict the impacts of the following on the TRAVERSING IN-CORE PROBE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	ation. Failure to retract during accident conditions: Mark-I&II(Not-BWR1)
215001	A2.08	Clinton is a BWR 6 and does not utilize this configur Ability to (a) predict the impacts of the following on the TRAVERSING IN-CORE PROBE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	ation. Failure to retract to shield: (Not-BWR1)
		At Clinton, Reactor Engineers, not operators, perform RPV; there are no containment isolations associated	m all TIP tasks. Detectors are stored in the distribution distribution distribution distribution distribution and distribution distributicati distributicati distributicati distributicati di distributi

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System N	lo. K/A No.	Category	K/A Statement
		Suppression Basis	
215001	A3.03	Ability to monitor automatic operations of the TRAVERSING IN-CORE PROBE including:	Valve operation: Not-BWR1
215001	A4.03	Clinton is a BWR 6 and does not utilize isolation val Ability to manually operate and/or monitor in the control room:	ves. Isolation valves: Mark-I&II(Not-BWR1)
215001	K1.03	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between TRAVERSING IN-CORE PROBE and the	ation. Nitrogen purge system: P-Spec(Not-BWR1)
215001	K2.01	Clinton does utilize nitrogen purge for TIPS. Knowledge of electrical power supplies to the following:	Shear valves: Mark-I&II(Not-BWR1)
215001	K4.01	Clinton is a BWR 6 and does not utilize this configur Knowledge of TRAVERSING IN-CORE PROBE design feature(s) and/or interlocks which provide for the following:	a <i>tion.</i> Primary containment isolation: Mark-I&II(Not-BWR1)
215001	K6.04	Clinton is a BWR 6 and does not utilize this configur Knowledge of the effect that a loss or malfunction of the following will have on the TRAVERSING IN-CORE PROBE:	ation. Primary containment isolation system: Mark-I&II(Not-BWR1)
		Clinton is a BWR 6 and does not utilize this configur	ation.
Rod Bloc	k Monitor S	ystem	
215002	2.1.27	Conduct of Operations	Knowledge of system purpose and/or
215002	2.1.28	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
215002	2.1.32	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
215002	2.1.33	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
215002	2.2.22	Clinton is a BWR 6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
215002	<b>A1.0</b> 1	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the ROD BLOCK MONITOR SYSTEM controls including:	Trip reference: BWR-3, 4, 5
215002	A2.01	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD BLOCK MONITOR SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Withdrawal of control rod in high power region of core: BWR-3, 4, 5
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	. K/A No.	Category	K/A Statement
		Suppression Basis	
215002	A2.02	Ability to (a) predict the impacts of the following on the ROD BLOCK MONITOR SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loss or reduction in recirculation system flow (flow comparator): BWR-3, 4, 5
215002	A2.03	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD BLOCK MONITOR SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Loss of associated reference APRM channel: BWR-3, 4, 5
215002	A2.04	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD BLOCK MONITOR SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Power supply losses: BWR-3, 4, 5
215002	A2.05	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the ROD BLOCK MONITOR SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	RBM high or inoperable: BWR-3, 4, 5
215002	A3.01	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Four rod display: BWR-3, 4, 5
215002	A3.02	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Meters and recorders: BWR-3, 4, 5
215002	A3.03	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Alarm and indicating lights: BWR-3, 4, 5
215002	A3.04	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Verification or proper functioning/ operability: BWR-3, 4, 5
215002	A3.05	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Back panel meters and indicating lights: BWR-3, 4, 5
215002	A3.06	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the ROD BLOCK MONITOR SYSTEM including:	Transfer to alternate APRM when referenced APRM bypassed: BWR-3, 4, 5
215002	<b>A4</b> .01	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	IRM/RBM recorder/switch: BWR-3, 4, 5
215002	A4.02	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	RBM back panel switches, meters and indicating lights: BWR-3, 4, 5
215002	A4.03	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Trip bypasses: BWR-3, 4, 5
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
215002	A4.04	Ability to manually operate and/or monitor in the control room:	Push to Check pushbutton: Plant-Specific
215002	A4.05	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Setup pushbutton: Plant-Specific
215002	A4.06	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Surveillance testing: BWR-3, 4, 5
215002	K1.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	APRM: BWR-3, 4, 5
215002	K1.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	LPRM: BWR-3, 4, 5
215002	K1.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	Reactor manual control: BWR-3, 4, 5
215002	K1.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	Recirculation system: BWR-3, 4, 5
215002	K1.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	Four rod display: BWR-3, 4, 5
215002	K1.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	Control rod selection: BWR-3, 4, 5
215002	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between ROD BLOCK MONITOR SYSTEM and the following:	IRM: BWR-3, 4, 5
215002	<b>K2.0</b> 1	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	RBM channels: BWR-3, 4, 5
215002	K2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Recorders: BWR-3, 4, 5
215002	K2.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	APRM channels: BWR-3, 4, 5
215002	K3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the ROD BLOCK MONITOR SYSTEM will have on following:	Reactor manual control system: BWR-3, 4,
		Clinton is a BWR 6 and does not utilize this system.	

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
215002	K3.02	Knowledge of the effect that a loss or malfunction of the ROD BLOCK MONITOR SYSTEM will have on following:	Limiting control rod pattern: Plant-Specific
215002	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD BLOCK MONITOR SYSTEM design feature(s) and/or interlocks which provide for the following:	Prevent control rod withdrawal: BWR-3, 4, 5
215002	K4.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD BLOCK MONITOR SYSTEM design feature(s) and/or interlocks which provide for the following:	Allows stepping up of rod block setpoint: BWR-3, 4, 5
215002	K4.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of ROD BLOCK MONITOR SYSTEM design feature(s) and/or interlocks which provide for the following:	Initiation point (30%): BWR-3, 4, 5
215002	K5.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD BLOCK MONITOR SYSTEM:	Trip reference selection: Plant-Specific
215002	K5.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to ROD BLOCK MONITOR SYSTEM:	Null sequence control: BWR-3, 4, 5
215002	K6.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:	RPS: BWR-3, 4, 5
215002	K6.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:	Instrument power: Plant-Specific
215002	K6.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:	Essential power: Plant-Specific
215002	K6.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:	APRM reference channel: BWR-3, 4, 5
215002	K6.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:	LPRM detectors: BWR-3, 4, 5
I	4. D	Clinton is a BWR 6 and does not utilize this system.	
Intermedia	ite Kange M	ionitor (IKM) System	<b>_</b>
215003	K1.02	Knowledge of the physical connections and/or cause- effect relationships between INTERMEDIATE RANGE MONITOR (IRM) SYSTEM and the following:	Reactor manual control
		Clinton is a BWR 6 and does not utilize this system.	

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System No. K/A No.		Category	K/A Statement	
		Suppression Basis		
215003	K3.02	Knowledge of the effect that a loss or malfunction of the INTERMEDIATE RANGE MONITOR (IRM) SYSTEM will have on following:	Reactor manual control	
		Clinton is a BWR 6 and does not utilize this system.		
Source Rai	nge Monito	r (SRM) System		
215004	K1.02	Knowledge of the physical connections and/or cause- effect relationships between SOURCE RANGE MONITOR (SRM) SYSTEM and the	Reactor manual control	
215004	K3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the SOURCE RANGE MONITOR (SRM) SYSTEM will have on following:	Reactor manual control: Plant-Specific	
A vona co D	awar Danas	Clinton is a BWR 6 and does not utilize this system.		
Average P	ower Kange	Wontor/Local Power		
215005	K1.03	Knowledge of the physical connections and/or cause- effect relationships between APRM/LPRM and the following:	RBM: Plant-Specific	
215005	K1.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between APRM/LPRM and the following:	Reactor manual control system:	
215005	K3.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the APRM/LPRM will have on	Reactor manual control system:	
_		Clinton is a BWR 6 and does not utilize this system.		
Nuclear Bo	oiler Instrur	nentation		
216000	K1.14	Knowledge of the physical connections and/or cause- effect relationships between NUCLEAR BOILER INSTRUMENTATION and the following:	High pressure coolant injection:	
216000	K1.15	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between NUCLEAR BOILER INSTRUMENTATION and the following:	Isolation condenser: Plant-Specific	
216000	K3.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the NUCLEAR BOILER Instrumentation will have on following:	High pressure coolant injection:	
216000	K3.15	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the NUCLEAR BOILER Instrumentation will have on following:	Isolation condenser: Plant-Specific	
Clinton is a BWR 6 and does not utilize this system.				
KHK/LPC	i: Torus/Su	ppression Pool Cooling	<b>2</b> • • • • • •	
219000	A1.09	Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL COOLING MODE controls including:	Suppression chamber air temperature: Plant-Specific	
		Clinton is a BWR 6 and does not have a suppressio	n chamber.	

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
219000	К1.07	Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL COOLING MODE and the following:	Condensate transfer
219000	K6.07	This system does not serve any purpose for suppres Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	ssion pool cooling. Condensate transfer
		This system is not utilized for this function.	
Primary C	ontainment	System and Auxiliaries	
223001	A1.11	Ability to predict and/or monitor changes in parameters associated with operating the PRIMARY CONTAINMENT AND AUX.	Reactor building to suppression chamber differential pressure: Plant-Specific
223001	A1.12	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the PRIMARY CONTAINMENT AND AUX.	Moisture concentration
223001	A3.06	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES including:	Drywell/suppression chamber differential pressure: Mark-1,1)
223001	A4.02	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	ACAD compressors: Plant-Specific
223001	A4.10	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Drywell nitrogen makeup: Mark-I,II
223001	<b>K</b> 1.15	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES and the following:	HPCI: Plant-Specific
223001	<b>K1</b> .17	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause-effect relationships between PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES and the following:	Reactor building HVAC: Plant-Specific
223001	K1.18	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES and the following:	Drywell pneumatic compressors:
223001	K2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Drywell compressors
223001	K2.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Pumpback compressors: Plant-Specific
		Clinton is a BWR 6 and does not utilize this compon	ent.

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
223001	K3.10	Knowledge of the effect that a loss or malfunction of the PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES will have on	Containment/drywell moisture content
223001	K5.15	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to PRIMARY CONTAINMENT SYSTEM AND AUXILIARIES:	Moisture content measurement:
		Clinton is a BWR 6 and does not utilize this system.	
Primary Co	ontainment	Isolation System/Nuclear	
223002	K1.04	Knowledge of the physical connections and/or cause- effect relationships between PCIS/NSSSS and the following:	High pressure coolant injection:
223002	K1.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between PCIS/NSSSS and the following:	Isolation condenser: Plant-Specific
223002	K1.13	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between PCIS/NSSSS and the following:	Traversing in-core probe system
223002	K1.18	Clinton utilizes a TIP that is inside the primary conta Knowledge of the physical connections and/or cause- effect relationships between PCIS/NSSSS and the following:	inment. Reactor building drainage system:
223002	K1.22	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between PCIS/NSSSS and the following:	Containment nitrogen inerting system: Plant-Specific
223002	K3.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	Reactor building radiation level
223002	K3.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	High pressure coolant injection:
223002	K3.13	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	Isolation condenser: Plant-Specific
223002	<b>K3.2</b> 1	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	Traversing in-core probe system
223002	K3.24	Clinton utilizes a TIP that is inside the primary conta Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	inment. Reactor building drainage system
223002	K3.28	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the PCIS/NSSSS will have on	Containment nitrogen inerting system
RHR/LPCI	: Containn	Clinton is a BWR 6 and does not utilize this system. nent Spray System Mode	

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System No. K/A No	. Category	K/A Statement
	Suppression Basis	
226001 A1.03	Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE controls including:	Suppression chamber pressure: Mark-1-1)
226001 A1.04	Clinton is a BWR 6 and does not utilize this system Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE controls including:	: Suppression pool temperature: Mark-I-II
226001 A2.19	Clinton is a BWR 6 and does not utilize this system Ability to (a) predict the impacts of the following on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Low (or negative) suppression chamber pressure during system operation: Mark-I-II
226001 A4.15	Clinton is a BWR 6 and does not utilize this system Ability to manually operate and/or monitor in the control room:	Suppression chamber pressure: Mark-I-II
226001 K1.06	Clinton is a BWR 6 and does not utilize this system Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE and the following:	Condensate transfer
226001 K1.09	Clinton is a BWR 6 and does not utilize this system Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE and the following:	Drywell (spray penetration): Mark-I-I/
226001 K1.12	Clinton is a BWR 6 and does not utilize this system Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE and the following:	Suppression pool (spray penetration): Plant-Specific
226001 K6.06	Clinton is a BWR 6 and does not utilize this suppre. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM	ssion pool spray. Condensate transfer
226001 K6.09	Clinton is a BWR 6 and does not utilize this system Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM	Reactor building to suppression chamber vacuum breakers: Plant-Specific
226001 K6.10	Clinton is a BWR 6 and does not utilize this system Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM	Suppression chamber to drywell vacuum breakers: Mark-1-II
RHR/LPCI: Torus/S	Clinton is a BWR 6 and does not utilize this system uppression Pool Spray	
230000 2.1.14	Conduct of Operations	Knowledge of system status criteria which require the notification of plant personnel.
	Clinton is a BWR 6 and does not utilize this system	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
230000	2.1.2	Conduct of Operations	Knowledge of operator responsibilities during all modes of plant operation.
230000	2.1.23	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to perform specific system and integrated plant procedures during different modes of plant operation.
230000	2.1.27	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Knowledge of system purpose and/or
230000	2.1.28	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Knowledge of the purpose and function of major system components and controls.
230000	2.1.30	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to locate and operate components, including local controls.
230000	2.1.32	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to explain and apply system limits and precautions.
230000	2.1.33	Clinton is a BWR 6 and does not utilize this system. Conduct of Operations	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
230000	2.2.22	Clinton is a BWR 6 and does not utilize this system. Equipment Control	Knowledge of limiting conditions for operations and safety limits.
230000	2.2.25	Clinton is a BWR 6 and does not utilize this system. Equipment Control	Knowledge of bases in technical specifications for limiting conditions for operations and safety limits.
230000	2.4.30	Clinton is a BWR 6 and does not utilize this system. Emergency Procedures and Plan	Knowledge of which events related to system operations/status should be reported to outside agencies.
230000	2.4.31	Clinton is a BWR 6 and does not utilize this system. Emergency Procedures and Plan	Knowledge of annunciators alarms and indications, and use of the response instructions.
230000	2.4.49	Clinton is a BWR 6 and does not utilize this system. Emergency Procedures and Plan	Ability to perform without reference to procedures those actions that require immediate operation of system components
230000	2.4.50	Clinton is a BWR 6 and does not utilize this system. Emergency Procedures and Plan	Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.
230000	2.4.6	Clinton is a BWR 6 and does not utilize this system. Emergency Procedures and Plan	Knowledge symptom based EOP mitigation strategies.
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
-		Suppression Basis	
230000	A1.01	Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Suppression chamber pressure
230000	A1.02	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Suppression pool temperature
230000	A1.03	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Drywell pressure
230000	A1.04	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	System flow
230000	A1.05	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	System pressure
230000	A1.06	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Suppression pool level
230000	A1.07	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Condensate storage tank level
230000	A1.08	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Motor amps
230000	A1.09	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Emergency generator loading
230000	A1.10	Clinton is a BWR 6 and does not utilize this system. Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	System lineup
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
230000	A1.11	Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE controls including:	Suppression chamber air temperature
230000	A2.01	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Inadequate net positive suction head
230000	A2.02	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Pump trips
230000	A2.03	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Valve closures
230000	A2.04	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Valve openings
230000	A2.05	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	A.C. electrical failures
230000	A2.06	Ability to (a) predict the impacts of this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Clinton is a BWR 6 and does not utilize this system.	D.C. electrical failures
230000	A2.07	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR 6 and does not utilize this system</i> .	Emergency generator failure

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System No	<b>b. K/A No.</b>	Category	K/A Statement
		Suppression Basis	
230000	A2.08	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Pump seal failure
230000	A2.09	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Inadequate room cooling
230000	A2.10	Clinton is a BWK o and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Nuclear boiler instrument failures
230000	A2.11	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Motor operated valve failures
230000	A2.12	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Valve logic failure
230000	A2.13	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR 6 and does not utilize this system.</i>	High suppression pool level
230000	A2.14	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR 6 and does not utilize this system.</i>	Low (or negative) suppression pool pressure during system operation
230000	A2.15	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR 6 and does not utilize this system.</i>	Loss of coolant accident

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System N	lo. K/A No.	Category	K/A Statement
		Suppression Basis	
230000 230000	A2.16 A3.01	Ability to (a) predict the impacts of the following on the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR 6 and does not utilize this system.</i> Ability to monitor automatic operations of the RHR/LPCI: TORUS/SUPPRESSION POOL	Loss of, or inadequate, heat exchanger cooling flow Valve operation
		SPRAY MODE including:	
230000	A4.01	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Pumps
230000	A4.02	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Spray valves
230000	A4.03	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Keep fill system
230000	A4.04	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Minimum flow valves
230000	A4.05	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Heat exchanger cooling flow
230000	A4.06	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Valve logic reset following automatic initiation of LPCI/RHR in injection mode
230000	A4.07	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System flow
230000	A4.08	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Pump/system discharge pressure
230000	A4.09	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Indicating lights and alarms
230000	A4.10	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Condensate storage tank level
230000	A4.11	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	System venting
230000	A4,12	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Suppression pool level
230000	A4.13	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Suppression chamber pressure
		Clinton is a BWR 6 and does not utilize this system.	

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System N	o. K/A No.	Category	K/A Statement
		Suppression Basis	
230000	A4.14	Ability to manually operate and/or monitor in the control room:	Suppression pool temperature
230000	A4.15	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Drywell pressure
230000	A4.16	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	The override for suppression pool spray valve logic
230000	K1.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI; TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Suppression pool
230000	K1.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Condensate storage and transfer system
230000	K1.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	LPCI/RHR piping
230000	K1.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	LPCI/RHR pumps
230000	K1.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	A.C. electrical
230000	K1.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI; TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Keep fill system
230000	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	D.C. electrícal
230000	K1.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Nuclear boiler instrumentation
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	. K/A No.	Category	K/A Statement
		Suppression Basis	
230000	K1.09	Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Reactor building drain system
230000	K1.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE and the following:	Component cooling water systems
230000	K2.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Valves
230000	K2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Pumps
230000	K3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE	Suppression chamber pressure
230000	K3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE	Suppression pool temperature
230000	K3.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE	Drywell pressure
230000	K3.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE	Suppression chamber air temperature
230000	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Surveillance for all operable components
230000	K4.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Redundancy
230000	K4.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Unintentional reduction in vessel injection flow during accident conditions
230000	K4.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Prevention of piping overpressurization
230000	K4.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Pump minimum flow protection
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
230000	K4.06	Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Pump motor cooling
230000	K4.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Prevention of water hammer
230000	K4.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Adequate pump net positive suction head
230000	K4.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Spray flow cooling
230000	K4.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE design feature(s) and/or interlocks which provide	Prevention of leakage to the environment through system heat exchanger
230000	K5.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	System venting
230000	K5.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	Pump cavitation
230000	K5.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	Pressure measurement
230000	К5.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	Evaporative cooling
230000	K5.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	Convective cooling
230000	K5.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY MODE:	Heat exchanger operation
230000	K5.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to RHR/LPC1: TORUS/SUPPRESSION POOL SPRAY MODE:	Vacuum breaker operation
230000	K6.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	A.C. electrical
		Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement	
		Suppression Basis		
230000	K6.02	Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	D.C. electrical	
230000	K6.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Emergency generator	
230000	K6.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Keep fill system	
230000	K6.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Suppression pool	
230000	K6.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Condensate storage and transfer system	
230000	K6.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	ECCS room cooling	
230000	K6.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Nuclear boiler instrumentation	
230000	K6.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Reactor building to suppression pool vacuum breakers	
230000	K6.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: TORUS/SUPPRESSION POOL	Component cooling water systems	
Fuel Pool (	Cooling and	Clinton is a BWR 6 and does not utilize this system. I Clean-up		
233000	K1.07	Knowledge of the physical connections and/or cause- effect relationships between FUEL POOL COOLING AND CLEAN-UP and the following:	Condensate system: Plant-Specific	
233000	K1.11	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between FUEL POOL COOLING AND CLEAN-UP and the following:	at <i>ion.</i> Reactor building drainage system:	
233000	K6.05	Clinton is a BWR 6 and does not utilize this configur Knowledge of the effect that a loss or malfunction of the following will have on the FUEL POOL COOLING AND CLEAN-UP:	a <i>tion.</i> Condensate system	
Clinton is a BWR 6 and does not utilize this configuration. Main and Reheat Steam System				

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System N	No. K/A No.	Category	K/A Statement
		Suppression Basis	
239001	K1.18	Knowledge of the physical connections and/or cause- effect relationships between MAIN AND REHEAT STEAM SYSTEM and the following:	High pressure coolant injection:
239001	K1.21	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between MAIN AND REHEAT STEAM SYSTEM and the following:	Isolation condenser system: Plant-Specific
239001	K3.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or matfunction of the MAIN AND REHEAT STEAM SYSTEM will have on following:	High pressure coolant injection system: Plant-Specific
239001	K3.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the MAIN AND REHEAT STEAM SYSTEM will have on following:	Isolation condenser: Plant-Specific
239001	K3.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the MAIN AND REHEAT STEAM SYSTEM will have on following:	Residual heat removal system:
239001	K5.07	Clinton does not utilize this function. Knowledge of the operational implications of the following concepts as they apply to MAIN AND REHEAT STEAM SYSTEM:	Hydraulic operated MSIV's
5 11 115		Clinton is a BWR 6 and does not utilize this system.	
Reliet/Sa	fety Valves		
239002	K1.06	Knowledge of the physical connections and/or cause- effect relationships between RELIEF/SAFETY VALVES and the following:	Drywell instrument air/ drywell pneumatics: Plant-Specific
239002	K1.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RELIEF/SAFETY VALVES and the following:	Drywell pressure (for safety valves which discharge to the drywell airspace):
		Clinton is a BWR 6 and does not utilize this system.	
MSIV Le	akage Contro	ol System	
239003	2.1.14	Conduct of Operations	Knowledge of system status criteria which require the notification of plant personnel.
239003	2.1.2	The MSIV Leakage Control System has been abanc Conduct of Operations	loned in place at CPS. Knowledge of operator responsibilities during all modes of plant operation.
239003	2.1.23	The MSIV Leakage Control System has been abanc Conduct of Operations	Ioned in place at CPS. Ability to perform specific system and integrated plant procedures during different modes of plant operation.
239003	2.1.27	The MSIV Leakage Control System has been abanc Conduct of Operations	loned in place at CPS. Knowledge of system purpose and/or
239003	2.1.28	The MSIV Leakage Control System has been abanc Conduct of Operations	loned in place at CPS. Knowledge of the purpose and function of major system components and controls.
		The MSIV Leakage Control System has been abanc	loned in place at CPS.

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
239003	2.1.30	Conduct of Operations	Ability to locate and operate components, including local controls.
239003	2.1.32	The MSIV Leakage Control System has been abanc Conduct of Operations	toned in place at CPS. Ability to explain and apply system limits and precautions.
239003	<b>2</b> .1 <b>.33</b>	The MSIV Leakage Control System has been abanc Conduct of Operations	toned in place at CPS. Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.
239003	2.2.22	The MSIV Leakage Control System has been abanc Equipment Control	loned in place at CPS. Knowledge of limiting conditions for operations and safety limits.
239003	2.2.25	The MSIV Leakage Control System has been abanc Equipment Control	loned in place at CPS. Knowledge of bases in technical specifications for limiting conditions for operations and safety limits.
239003	2.4.30	The MSIV Leakage Control System has been abanc Emergency Procedures and Plan	loned in place at CPS. Knowledge of which events related to system operations/status should be reported to outside agencies.
239003	2.4.31	The MSIV Leakage Control System has been aband Emergency Procedures and Plan	loned in place at CPS. Knowledge of annunciators alarms and indications, and use of the response instructions.
239003	2.4.49	The MSIV Leakage Control System has been aband Emergency Procedures and Plan	loned in place at CPS. Ability to perform without reference to procedures those actions that require immediate operation of system components
239003	2.4.50	The MSIV Leakage Control System has been abanc Emergency Procedures and Plan	loned in place at CPS. Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.
239003	2.4.6	The MSIV Leakage Control System has been aband Emergency Procedures and Plan	loned in place at CPS. Knowledge symptom based EOP mitigation strategies.
239003	A1.01	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	loned in place at CPS. Main steam line pressure: BWR-4, 5, 6
239003	A1.02	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	oned in place at CPS. Heater operation: BWR-4, 5, 6(P-Spec)
239003	A1.03	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	oned in place at CPS. Dilution air flow: BWR-4, 5, 6(P-Spec)
239003	A1.04	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	oned in place at CPS. Status indicating lights and alarms: BWR-4,
		The MSIV Leakage Control System has been aband	oned in place at CPS.

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System No. K/A No.	Category	K/A Statement
	Suppression Basis	
239003 A1.05	Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	System lineup: BWR-4, 5, 6
239003 A1.06	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	foned in place at CPS. MSIV leakage flow: BWR-4, 5, 6
239003 A1.07	The MSIV Leakage Control System has been aband Ability to predict and/or monitor changes in parameters associated with operating the MSIV LEAKAGE CONTROL SYSTEM controls	doned in place at CPS. Reactor building temperature: BWR-4, 5, 6(P-Spec)
239003 A2.01	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Inboard MSIV valve leakage: BWR-4, 5, 6
239003 A2.02	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Outboard MSIV valves leakage: BWR-4, 5,
239003 A2.03	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Low dilution air flow (inboard and/or outboard): BWR-4, 5, 6(P-Spec)
239003 A2.04	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Outboard system logic failure: BWR-4, 5, 6
239003 A2.05	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Inboard system logic failure: BWR-4, 5, 6
239003 A2.06	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Blower failure: BWR-4, 5, 6(P-Spec)
239003 A2.07	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	toned in place at CPS. Heater failure: BWR-4, 5, 6(P-Spec)
	The MSIV Leakage Control System has been aband	loned in place at CPS.

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
239003	A2.08	Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Motor operator valve failure(s): BWR-4, 5, 6
239003	A2.09	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. Outboard main steamline high pressure: BWR-4, 5, 6(P-Spec)
239003	A2.10	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. A.C. distribution power failures: BWR-4, 5, 6
239003	A2.11	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	doned in place at CPS. High reactor pressure: BWR-4, 5, 6
239003	A2.12	The MSIV Leakage Control System has been aband Ability to (a) predict the impacts of the following on the MSIV LEAKAGE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	loned in place at CPS. MSIV valve failure to close: BWR-4, 5, 6
239003	A3.01	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	doned in place at CPS. System logic initiation: BWR-4, 5, 6(P-Spec)
239003	A3.02	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	doned in place at CPS. Main steamline pressures: BWR-4, 5, 6
239003	A3.03	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	doned in place at CPS. Dilution air flaws: BWR-4, 5, 6(P-Spec)
239003	A3.04	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	loned in place at CPS. MSIV leakage flows: BWR-4, 5, 6(P-Spec)
239003	A3.05	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	doned in place at CPS. Heater operation: BWR-4, 5, 6(P-Spec)
239003	A3.06	The MSIV Leakage Control System has been abance Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	loned in place at CPS. System status lights and alarms: BWR-4, 5,
239003	A3.07	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	doned in place at CPS. System lineups: BWR-4, 5, 6
		The MSIV Leakage Control System has been aband	loned in place at CPS.

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System No. K/A No.	Category	K/A Statement
	Suppression Basis	
239003 A3.08	Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	Blower operation: BWR-4, 5, 6(P-Spec)
239003 A3.09	The MSIV Leakage Control System has been aband Ability to monitor automatic operations of the MSIV LEAKAGE CONTROL SYSTEM including:	<i>toned in place at CPS.</i> Reactor building temperature: BWR-4, 5, 6(P-Spec)
239003 A4.01	The MSIV Leakage Control System has been abanc Ability to manually operate and/or monitor in the control room:	loned in place at CPS. Manually initiate system operation: BWR-4, 5, 6(P-Spec)
239003 A4.02	The MSIV Leakage Control System has been aband Ability to manually operate and/or monitor in the control room:	oned in place at CPS. Surveillance testing: BWR-4, 5, 6(P-Spec)
239003 A4.03	The MSIV Leakage Control System has been aband Ability to manually operate and/or monitor in the control room:	loned in place at CPS. Main steamline pressures: BWR-4, 5, 6
239003 A4.04	The MSIV Leakage Control System has been aband Ability to manually operate and/or monitor in the control room:	loned in place at CPS. Dilution air flows: BWR-4, 5, 6(P-Spec)
239003 A4.05	The MSIV Leakage Control System has been aband Ability to manually operate and/or monitor in the control room:	loned in place at CPS. MSIV leakage flows: BWR-4, 5, 6(P-Spec)
239003 A4.06	The MSIV Leakage Control System has been abance Ability to manually operate and/or monitor in the control room:	loned in place at CPS. Heater operation: BWR-4, 5, 6(P-Spec)
239003 A4.07	The MSIV Leakage Control System has been aband Ability to manually operate and/or monitor in the control room:	boned in place at CPS. System status lights and alarms: BWR-4, 5, 6(P-Spec)
239003 A4.08	The MSIV Leakage Control System has been abance Ability to manually operate and/or monitor in the control room:	loned in place at CPS. System lineups: BWR-4, 5, 6(P-Spec)
239003 A4.09	The MSIV Leakage Control System has been abance Ability to manually operate and/or monitor in the control room:	loned in place at CPS. System reset: BWR-4, 5, 6(P-Spec)
239003 K1.01	The MSIV Leakage Control System has been abanc Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	loned in place at CPS. Main steam system: BWR-4, 5, 6(P-Spec)
239003 K1.02	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	loned in place at CPS. Standby gas treatment system: BWR-4, 5, 6(P-Spec)
239003 K1.03	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	loned in place at CPS. Main steam line pressure instrumentation: BWR-4,5,6(P-Spec)
239003 K1.04	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	loned in place at CPS. A.C. electrical distribution: BWR-4, 5,
	The MSIV Leakage Control System has been aband	loned in place at CPS.

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
239003	K1.05	Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	Steam tunnel: BWR-4, 5, 6(P-Spec)
239003	K1.06	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	oned in place at CPS. Radwaste system: BWR-4, 5, 6(P-Spec)
239003	K1.07	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	oned in place at CPS. Floor drainage system: BWR-4, 5,
239003	K1.08	The MSIV Leakage Control System has been aband Knowledge of the physical connections and/or cause- effect relationships between MSIV LEAKAGE CONTROL SYSTEM and the following:	oned in place at CPS. Nuclear boiler instrumentation: BWR-4, 5, 6(P-Spec)
239003	<b>K2</b> .01	The MSIV Leakage Control System has been aband Knowledge of electrical power supplies to the following:	oned in place at CPS. Motor operated valves: BWR-4, 5,
239003	K2.02	The MSIV Leakage Control System has been abanded Knowledge of electrical power supplies to the following:	oned in place at CPS. Leakage control system blowers: BWR-4, 5, 6(P-Spec)
239003	K2.03	The MSIV Leakage Control System has been aband Knowledge of electrical power supplies to the following:	oned in place at CPS. Leakage control system heaters: BWR-4, 5, 6(P-Spec)
239003	K3.01	The MSIV Leakage Control System has been aband Knowledge of the effect that a loss or malfunction of the MSIV LEAKAGE CONTROL SYSTEM will have on following:	oned in place at CPS. Radiation release to the environment: BWR-4, 5, 6(P-Spec)
239003	K4.01	The MSIV Leakage Control System has been aband Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. Performance of its safety function following a loss of offsite power: BWR-4, 5,
239003	K4.02	The MSIV Leakage Control System has been aband Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. Performance of intended safety function following any single active component failure: BWR-4, 5, 6(P-Spec)
239003	K4.03	The MSIV Leakage Control System has been abande Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. The prevention of inadvertent system operation: BWR-4,5,6(P-Spec)
239003	K4.04	The MSIV Leakage Control System has been aband Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. Surveillance for system operability: BWR-4,
239003	K4.05	The MSIV Leakage Control System has been abande Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. Assurance that any MSIV leakage will pass through the system and into standby gas treatment prior to release to the atmosphere: BWR-4, 5, 6(P-Spec)
		The MONAL share Construct Construction in the	

The MSIV Leakage Control System has been abandoned in place at CPS.

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
239003	K4.06	Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	The depressurization of main steam piping prior to routing leakage through system:
239003	K4.07	The MSIV Leakage Control System has been abande Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. The reduction of MSIV leakage temperature: BWR-4,5,6(P-Spec)
239003	K4.08	The MSIV Leakage Control System has been abande Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. Prevention of collected condensate in system bleed lines: BWR-4, 5, 6(P-Spec)
239003	K4.09	The MSIV Leakage Control System has been abande Knowledge of MSIV LEAKAGE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	oned in place at CPS. The dilution of MSIV leakage: BWR-4, 5, 6(P-Spec)
239003	K6.01	The MSIV Leakage Control System has been abande Knowledge of the effect that a loss or malfunction of the following will have on the MSIV LEAKAGE CONTROL SYSTEM:	oned in place at CPS. A.C. electrical distribution: BWR-4, 5,
239003	K6.02	The MSIV Leakage Control System has been abande Knowledge of the effect that a loss or malfunction of the following will have on the MSIV LEAKAGE CONTROL SYSTEM:	oned in place at CPS. Standby gas treatment system: BWR-4, 5, 6(P-Spec)
239003	K6.03	The MSIV Leakage Control System has been abande Knowledge of the effect that a loss or malfunction of the following will have on the MSIV LEAKAGE CONTROL SYSTEM:	oned in place at CPS. Nuclear boiler instrumentation: BWR-4, 5, 6(P-Spec)
		The MSIV Leakage Control System has been aband	oned in place at CPS.
Reactor/Tur	bine Press	ure Regulating System	
241000	A3.15	Ability to monitor automatic operations of the REACTOR/TURBINE PRESSURE REGULATING SYSTEM including:	Recirculation pump flow control:
241000	K1.15	Clinton is a BWR 6 and there is no tie to this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR/TURBINE PRESSURE REGULATING SYSTEM and the following:	D.C. electrical power
241000	K1.23	DC does not supply power to this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR/TURBINE PRESSURE REGULATING SYSTEM and the following:	Recirculation flow control system:
241000	K1.37	Clinton is a BWR 6 and there is no tie to this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR/TURBINE PRESSURE REGULATING SYSTEM and the following:	Turbine stress evaluator: Plant-Specific
241000	K3.21	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the REACTOR/TURBINE PRESSURE REGULATING SYSTEM will have on	Recirculation flow control system:
		Clinton is a BWR 6 and there is no tie to this system.	

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S	System No.	K/A No.	Category	K/A Statement
			Suppression Basis	
2	41000	K4.11	Knowledge of REACTOR/TURBINE PRESSURE REGULATING SYSTEM design feature(s) and/or interlocks which provide for the following:	Load following: Plant-Specific
2	41000	К4.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR/TURBINE PRESSURE REGULATING SYSTEM design feature(s) and/or interlocks which provide for the following:	Recirculation flow control: Plant-Specific
2	41000	K5.01	Clinton is a BWR 6 and there is no tie to this system. Knowledge of the operational Implications of the following concepts as they apply to REACTOR/TURBINE PRESSURE REGULATING SYSTEM:	Accumulator operation: Plant-Specific
2	41000	K5.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational Implications of the following concepts as they apply to REACTOR/TURBINE PRESSURE REGULATING SYSTEM:	Unitized actuator operation: Fermi-Only
2	41000	K6.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR/TURBINE PRESSURE REGULATING	Recirculation flow control system:
		6	Clinton is a BWR 6 and there is no tie to this system.	
N	lain Turbir	ie Generato	or and Auxiliary Systems	
2	45000	K2.03	Knowledge of electrical power supplies to the following:	Amplidyne: Plant-Specific
2	45000	K2.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Air seal oil pumps: Plant-Specific
r		1	Clinton is a BWR 6 and does not utilize this system.	
4	ceactor Con	idensate Sy	stem	
2	56000	K1.03	Knowledge of the physical connections and/or cause- effect relationships between REACTOR CONDENSATE SYSTEM and the following:	HPCI: Plant-Specific
2	56000	K1.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR CONDENSATE SYSTEM and the following:	Isolation condenser: Plant-Specific
2	56000	K1.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR CONDENSATE SYSTEM and the following:	RHR (LPCI): Plant-Specific
2	56000	K1.17	Clinton does not utilize this function. Knowledge of the physical connections and/or cause- effect relationships between REACTOR CONDENSATE SYSTEM and the following:	ECCS keep fill system: Plant-Specific
2	56000	K3.05	Clinton does not utilize this function from reactor con Knowledge of the effect that a loss or malfunction of the REACTOR CONDENSATE SYSTEM will have on following:	densate. HPCI: Plant-Specific
			Clinton is a BWR 6 and does not utilize this system.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
256000	K3.07	Knowledge of the effect that a loss or malfunction of the REACTOR CONDENSATE SYSTEM will have on following:	Isolation condenser: Plant-Specific
256000	K4.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR CONDENSATE SYSTEM design feature(s) and/or interlocks which provide for the following:	Condensate and/or booster pump auto start: Plant-Specific
256000	K4.08	Clinton does not have an auto-start on the CD/CB pa Knowledge of REACTOR CONDENSATE SYSTEM design feature(s) and/or interlocks which provide for the following:	umps. Dedicated ECCS water supply:
		Clinton does not utilize this function from reactor cor	ndensate.
Reactor Fe	edwater Sy	stem	
259001	A3.11	Ability to monitor automatic operations of the REACTOR FEEDWATER SYSTEM including:	Reactor feedpump runbacks: Plant-Specific
259001	K1.02	Clinton does not utilize this function. Knowledge of the physical connections and/or cause- effect relationships between REACTOR FEEDWATER SYSTEM and the following:	HPCI: Plant-Specific
259001	K1.18	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR FEEDWATER SYSTEM and the following:	Fire protection system (emergency cooling): Plant-Specific
259001	K1.19	Clinton does not utilize this function through reactor Knowledge of the physical connections and/or cause- effect relationships between REACTOR FEEDWATER SYSTEM and the following:	feedwater. Redundant reactivity control system: Plant-Specific
259001	K3.03	Clinton does not utilize this function. Knowledge of the effect that a loss or malfunction of the REACTOR FEEDWATER SYSTEM will have on following:	HPCI: Plant-Specific
259001	K4.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR FEEDWATER SYSTEM design feature(s) and/or interlocks which provide for the following:	Feedpump runbacks: Plant-Specific
		Clinton does not utilize feedpump runbacks.	
Reactor Wa	ater Level (	Control System	
259002	A1.06	Ability to predict and/or monitor changes in parameters associated with operating the REACTOR WATER LEVEL CONTROL SYSTEM controls including:	Feedwater string(s) selected for FWCI:
259002	A2.08	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the REACTOR WATER LEVEL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Clinton is a BWR 6 and does not utilize this system.	Receipt of an ECCS initiation signal: FWCI

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
259002	A2.09	Ability to (a) predict the impacts of the following on the REACTOR WATER LEVEL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	FWCI system failure alarm: FWCI
259002	A3.08	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the REACTOR WATER LEVEL CONTROL SYSTEM including:	FWCI system initiation: FWCI
259002	A4.08	Clinton is a BWR 6 and does not utilize this system. Ability to manually operate and/or monitor in the control room:	Manually initiate FWCI: FWCI
259002	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the	Rod worth minimizer: Plant-Specific
259002	K1.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the	Emergency generator(s): FWCI/HPCI
259002	K1.11	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the	Drywell pressure: FWCI/HPCI
259002	K1.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the	Emergency condensate transfer pump: FWCI/HPCI
259002	K1.16	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the	HPCI: Plant-Specific
259002	K2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of electrical power supplies to the following:	Feedwater coolant injection (FWCI) initiation logic: FWCI/HPCI
259002	K3.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the REACTOR WATER LEVEL CONTROL SYSTEM will have on following:	Rod worth minimizer: Plant-Specific
259002	K4.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR WATER LEVEL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Bypassing of the RVM: Plant-Specific
259002	K4.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR WATER LEVEL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	TDRFP 20% power interlock: TDRFP
259002	K4.15	Clinton is a BWR 6 and does not utilize this system. Knowledge of REACTOR WATER LEVEL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Automatic initiation of the feedwater system upon receipt of an ECCS initiation signal: FWCI/HPCI
		Clinton is a BWR 6 and does not utilize this system.	

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System No. K/A	A No.	Category	K/A Statement
		Suppression Basis	
259002 K4.1	16	Knowledge of REACTOR WATER LEVEL CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	Dedication of feedwater string(s) to ECCS: FWCI/HPCI
259002 K5.0	08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to REACTOR WATER LEVEL CONTROL SYSTEM:	Heat removal mechanisms: FWCI
259002 K5.0	09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to REACTOR WATER LEVEL CONTROL SYSTEM:	Adequate core cooling: FWCI
259002 K6.0	07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR WATER LEVEL CONTROL SYSTEM:	Drywell pressure input: FWCI
		Clinton is a BWR 6 and does not utilize this system.	
Standby Gas Tre	eatment	System	
261000 A1.0	05	Ability to predict and/or monitor changes in parameters associated with operating the STANDBY GAS TREATMENT SYSTEM controls	Primary containment oxygen level:
261000 A1.0	06	Clinton is a BWR 6 and does not utilize this configura Ability to predict and/or monitor changes in parameters associated with operating the STANDBY GAS TREATMENT SYSTEM controls	ation. Drywell and suppression chamber differential pressure: Mark-I
261000 A4.0	05	Clinton is a BWR 6 and does not utilize this configura Ability to manually operate and/or monitor in the control room:	ntion. Drywell to suppression chamber/torus differential pressure: Mark-I,11
261000 K1.0	06	Clinton is a BWR 6 and does not utilize this configura Knowledge of the physical connections and/or cause- effect relationships between STANDBY GAS TREATMENT SYSTEM and the following:	ation. High pressure coolant injection system: Plant-Specific
261000 K3.0	03	Clinton is a BWR 6 and does not utilize this configura Knowledge of the effect that a loss of malfunction of the STANDBY GAS TREATMENT SYSTEM will have on following:	ation. Primary containment pressure: Mark-I&II
261000 K3.0	04	Clinton is a BWR 6 and does not utilize this configure Knowledge of the effect that a loss or malfunction of the STANDBY GAS TREATMENT SYSTEM will have on following:	ation. High pressure coolant injection system: Plant-Specific
261000 K3.0	06	Clinton is a BWR 6 and does not utilize this configura Knowledge of the effect that a loss or malfunction of the STANDBY GAS TREATMENT SYSTEM will have on following:	ation. Primary containment oxygen content:
•••		Clinton is a BWR 6 and does not utilize this configura	ation.
Uninterruptable	e Power	Supply (A.C./D.C.)	
262002 A1.0	02	Ability to predict and/or monitor changes in parameters associated with operating the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) controls including:	Motor generator outputs
		Clinton is a BWR 6 and does not utilize this configure	ation.

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System N	o. K/A No.	Category	K/A Statement
		Suppression Basis	
262002 262002	A2.04 K1.04	Ability to (a) predict the impacts of the following on the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.); and (b) based on those predictions, use procedures to correct, control, or miligate the consequences of those abnormal conditions or operations: <i>Clinton is a BWR-6 and does not utilize this feature.</i> Knowledge of the physical connections and/or cause- effect relationships between	Abnormal battery operation: BWR-1 Reactor manual control: Plant-Specific
		UNINTERRUPTABLE POWER SUPPLY	
262002	<b>K</b> 1.07	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	<i>ation.</i> Rod worth minimizer: Plant-Specific
262002	K1.09	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	ation. Drywell ventilation control: Plant-Specific
262002	K1.10	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	ration. Fire protection system: Plant-Specific
262002	K1.13	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	ation. Recirculation pump speed control:
262002	K1.15	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	ration. Stack gas monitors: Plant-Specific
262002	K1.20	Clinton is a BWR 6 and does not utilize this configur Knowledge of the physical connections and/or cause- effect relationships between UNINTERRUPTABLE POWER SUPPLY	ration. Plant communications equipment:
262002	K3.02	Clinton is a BWR 6 and does not utilize this configur Knowledge of the effect that a loss or malfunction of the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) will have on	ration. Recirculation pump speed: Plant-Specific
262002	K3.04	Clinton is a BWR 6 and does not utilize this configur Knowledge of the effect that a loss or malfunction of the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) will have on	ation. Fire protection system: Plant-Specific
262002	K3.05	Clinton is a BWR 6 and does not utilize this configue Knowledge of the effect that a loss or malfunction of the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) will have on	ation. Rod worth minimizer: Plant-Specific
262002	K3.09	Clinton is a BWR 6 and does not utilize this configur Knowledge of the effect that a loss or malfunction of the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) will have on	ation. Drywell ventilation control: Plant-Specific
		Clinton is a BWR 6 and does not utilize this configur	ration.

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
262002	K5.02	Knowledge of the operational implications of the following concepts as they apply to UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.):	General principles of motor generator operation: Plant-Specific
262002	K5.03	Clinton is a BWR 6 and does not utilize this configura Knowledge of the operational implications of the following concepts as they apply to UNINTERRUPTABLE POWER SUPPLY (A.C.(D.C.):	ntion. General principles of inertia fly wheel operation: Plant-Specific
Emergency	Generators	Clinton is a BWR 6 and does not utilize this configura (Diesel/Jet)	tion.
264000	A1.07	Ability to predict and/or monitor changes in parameters associated with operating the EMERGENCY GENERATORS (DIESEL/JET) controls including:	Gas generator temperature: Plant-Specific
264000	A1.08	Clinton does not use jet engines to power emergency Ability to predict and/or monitor changes in parameters associated with operating the EMERGENCY GENERATORS (DIESEL/JET) controls including:	/ generators. Gas generator speed: Plant-Specific
264000	K2.03	Clinton does not use jet engines to power emergency Knowledge of electrical power supplies to the following:	<i>i generators.</i> Turning gear (jet engine): Plant-Specific
264000	K2.04	Clinton does not use jet engines to power emergency Knowledge of electrical power supplies to the following:	/ generators. Ignition system (jet engine): Plant-Specific
264000	K6.04	Clinton does not use jet engines to power emergency Knowledge of the effect that a loss or malfunction of the following will have on the EMERGENCY GENERATORS (DIESEL/JET):	/ generators. Turning gear (jet engine): Plant-Specific
264000	K6.05	Clinton does not use jet engines to power emergency Knowledge of the effect that a loss or malfunction of the following will have on the EMERGENCY GENERATORS (DIESEL/JET):	/ generators. Ignition system (jet engine): Plant-Specific
		Clinton does not use jet engines to power emergency	generators.
Offgas Sys	tem		
271000	A2.07	Ability to (a) predict the impacts of the following on the OFFGAS SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Low oxygen injection flow: Plant-Specific
271000	K1.08	Clinton does not utilize this function. Knowledge of the physical connections and/or cause- effect relationships between OFFGAS SYSTEM and the following:	Oxygen injection system: Plant-Specific
271000	K5.05	Clinton does not utilize this function. Knowledge of the operational implications of the following concepts as they apply to OFFGAS SYSTEM:	Oxygen concentration measurement
		Clinton does not utilize this function.	

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Suppression Basis271000K6.06Knowledge of the effect that a loss or maifunction of the following will have on the Clinton ides not utilize this function. maifunction of the following will have on the Clinton is a BWR-8 and does not utilize this feature.Plant exhaust: BWR-1271000K6.13Knowledge of the effect that a loss or maifunction of the following will have on the Clinton is a BWR-8 and does not utilize this feature.Plant exhaust: BWR-1272000A2.07Ability to (d) predict the impacts of the following on the RADATION MONITORING SYSTEM and (b) based on those predictions, use procedures to correct, control, on mitigate the consequences of those abnormal conditions or operations:Hydrogen injection operation: Plant-Specific clinton is a BWR 6 and does not utilize this system.272000A3.11Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADATION MONITORING SYSTEM macluding:Reactor building ventilation system: Plant-Specific272000K1.05Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADATION MONITORING SYSTEM and the following:Reactor building ventilation system: Plant-Specific272000K1.15Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADATION MONITORING SYSTEM and the following:Filter building: Plant-Specific cause- effect relationships between RADATION MONITORING SYSTEM and the following:272000K1.15Clinton is a BWR 6 and does not utilize this syst	System No.	K/A No.	Category	K/A Statement
271000 K6.06 Knowledge of the effect that a loss or malfunction of the following will have on the Clinton does not uliize this function. Oxygen injection system: Plant-Specific   271000 K6.13 Clinton does not uliize this function. Knowledge of the effect that a loss or malfunction of the following will have on the Clinton is a BWR-6 and does not uliize this feature. Plant extaust: BWR-1   Radiation Monitoring System Ability to (d) predict the impacts of the following on the RADIATION MONITORING SYSTEM, and tobe abnormal conditions or operations: Hydrogen injection operation: Plant-Specific   272000 A3.11 Clinton is a BWR 6 and does not uliize this system. Clinton is a BWR 6 and does not uliize this system. RADIATION MONITORING SYSTEM including: Circulating water system blowdown isolations: Plant-Specific   272000 K1.06 Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following: Circulating water system blowdown isolations: Plant-Specific   272000 K1.12 Clinton is a BWR 6 and does not uliize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following: Isolation condenser: Plant-Specific   272000 K1.12 Clinton is a BWR 6 and does not uliize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following: Clinton is a BWR 6 and does not uliize this system. Fire Protection System Filer building: Plant-Specific   272000 K1.12			Suppression Basis	
271000K6.13 K6.13Clinkton does not ullize this function. mailunction of the following will have on the clinkton is a BWR-8 and does not ullize this feature.Plant exhaust: BWR-1 mailunction of the following on the RADIATION MONITORING SYSTEM and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of the RADIATION MONITORING SYSTEM and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of correct, control, or mitigate the consequences of correct and soft on so operations.Hydrogen injection operation: Plant-Specific circulating water system blowdown isolations. Plant-Specific isolations. Plant-Specific272000A3.11Clinton is a BWR 6 and does not ullize this system. Romedege of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:Circulating water system blowdown isolation condenser: Plant-Specific cause effect relationships between RADIATION MONITORING SYSTEM and the following:Isolation condenser: Plant-Specific isolation condenser: Plant-Specific cause effect relationships between RADIATION MONITORING SYSTEM and the following:Isolation condenser: Plant-Specific isolation condenser: Plant-Specific cause effect relationships between RADIATION MONITORING SYSTEM and the following:Isolation condenser: Plant-Specific cause effect relationships between RADIATION MONIT	271000	K6.06	Knowledge of the effect that a loss or malfunction of the following will have on the	Oxygen injection system: Plant-Specific
Clinton is a BWR-6 and does not utilize this feature.     Radiation Monitoring System     272000   A2.07   Ability to (d) predict the impacts of the following on the RADIATION MONITORING SYSTEM; and those abnormal conditions or operations: use procedures to correct, control, or miligate the consequences of those abnormal conditions or operations:   Hydrogen injection operation: Plant-Specific     272000   A3.11   Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the consequences of those abnormal conditions or operations:   Circulating water system blowdown is obtaines: Plant-Specific     272000   K1.06   Clinton is a BWR 6 and does not utilize this system. Cause effect relationships between RADIATION MONITORING SYSTEM including:   Circulating water system blowdown is obtaines. Plant-Specific     272000   K1.06   Clinton is a BWR 6 and does not utilize this configuration.   Reactor building ventilation system: cause effect relationships between RADIATION MONITORING SYSTEM and the following:   NontroRING SYSTEM and the following:     272000   K1.12   Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building.     272000   K1.12   Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building.	271000	K6.13	Clinton does not utilize this function. Knowledge of the effect that a loss or malfunction of the following will have on the	Plant exhaust: BWR-1
Radiation Monitoring System   272000   A2:07   Ability to (d) predict the impacts of the following on the RADIATION MONITORING SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:   Hydrogen injection operation: Plant-Specific     272000   A3.11   Ability to monitor automatic operations: of the RADIATION MONITORING SYSTEM including:   Circulating water system blowdown isolations. Plant-Specific     272000   K1.06   Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Circulating water system blowdown isolation. Status system: Plant-Specific     272000   K1.06   Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building ventilation system: Plant-Specific     272000   K1.12   Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building     272000   K1.12   Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building     272000   K1.12   Knowledge of the physical connections and/or cause effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building:     272000   K1.15   Knowledge of the physical connections and/or			Clinton is a BWR-6 and does not utilize this feature.	
272000   A2.07   Ability to (d) predict the impacts of the following on the RADIATION MONITORING SYSTEM: and (b) based on those predictions, use procedures to correct, control, or miligate the consequences of those abnormal conditions or operations:   Hydrogen injection operation: Plant-Specific     272000   A3.11   Ability to monitor automatic operations of the RADIATION MONITORING SYSTEM including:   Circulating water system blowdown isolations: Plant-Specific     272000   K1.06   Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building ventilation system: Plant-Specific     272000   K1.07   Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building ventilation system: Plant-Specific     272000   K1.17   Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:   Isolation condenser: Plant-Specific     272000   K1.15   Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:   Reactor building     272000   K1.15   Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:   Filter building: Plant-Specific     272000   K1.15   Knowledge of the physical connotion changes in parameters associated with	Radiation M	Ionitoring S	System	
272000A3.11Chinton is a BWR 6 and does not utilize this system. RADIATION MONITORING SYSTEM including: isolations: Plant-SpecificCirculating water system blowdown isolations: Plant-Specific272000K1.06Chinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building ventilation system: Plant-Specific272000K1.07Chinton is a BWR 6 and does not utilize this configuration. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building ventilation system: Isolation condenser: Plant-Specific272000K1.12Chinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building272000K1.12Chinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building: Plant-Specific272000K1.15Chinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Filter building: Plant-Specific272000K1.15Chinton is a BWR 6 and does not utilize this system. Fire Protection SystemFilter building: Plant-Specific286000A1.06Allility to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls inclu	272000	A2.07	Ability to (d) predict the impacts of the following on the RADIATION MONITORING SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Hydrogen injection operation: Plant-Specific
272000K1.06Clinton is a BWR € and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building ventilation system: Plant-Specific272000K1.07Clinton is a BWR € and does not utilize this configuration. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Isolation condenser: Plant-Specific272000K1.12Clinton is a BWR € and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building272000K1.12Clinton is a BWR € and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION 	272000	A3.11	Clinton is a BWR 6 and does not utilize this system. Ability to monitor automatic operations of the RADIATION MONITORING SYSTEM including:	Circulating water system blowdown isolations: Plant-Specific
272000K1.07Clinton is a BWR 6 and does not utilize this configuration. twowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Isolation condenser: Plant-Specific272000K1.12Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building272000K1.12Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building: Plant-Specific272000K1.15Clinton is a BWR 6 and does not utilize this system. 	272000	K1.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:	Reactor building ventilation system: Plant-Specific
272000K1.12Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or ause-effect relationships between RADIATION MONITORING SYSTEM and the following:Reactor building272000K1.15Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause-effect relationships between RADIATION MONITORING SYSTEM and the following:Filter building: Plant-Specific272000K1.15Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or MONITORING SYSTEM and the following: Clinton is a BWR 6 and does not utilize this system.Filter building: Plant-Specific286000A1.06Ability to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:Tank pressure: Plant-Specific286000A2.04Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following 	272000	K1.07	Clinton is a BWR 6 and does not utilize this configura Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:	tion. Isolation condenser: Plant-Specific
272000K1.15Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following: Clinton is a BWR 6 and does not utilize this system.Filter building: Plant-Specific286000A1.06Ability to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:Tank pressure: Plant-Specific286000A2.04Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:Tank pressure: Plant-Specific286000A2.04Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the FIRE PROTECTION SYSTEM; and (b) assed on those predictions, use procedures to 	272000	K1.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between RADIATION MONITORING SYSTEM and the following:	Reactor building
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Fire Protection System286000A1.06Ability to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:Tank pressure: Plant-Specific286000A2.04Ability to (a) predict the impacts of the following on the FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:Applicable component cooling water system failure: Plant-Specific286000A4.02Ability to manually operate and/or monitor in the control room:The only component cooled is the Fire Pumps which are self cooled.286000A4.03A4.03Ability to manually operate and/or monitor in the control room: 			Clinton is a BWR 6 and does not utilize this system.	
286000A1.06Ability to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:Tank pressure: Plant-Specific286000A2.04Ability to (a) predict the impacts of the following on the FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:Applicable component cooling water system failure: Plant-Specific286000A4.02Ability to manually operate and/or monitor in the control room:The only component cooled is the Fire Pumps which are self cooled.286000A4.03Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.Applicable component cooling water system: Plant-Specific286000A4.03Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.286000A4.03Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.286000A4.03Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.	Fire Protecti	ion System		
286000A2.04Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:Applicable component cooling water system failure: Plant-Specific286000A4.02Ability to manually operate and/or monitor in the control room:Applicable component cooling water system: Plant-Specific286000A4.03Ability to manually operate and/or monitor in the control room:Applicable component cooling water system: Plant-Specific286000A4.03Ability to manually operate and/or monitor in the control room:Applicable component cooling water system: Plant-Specific286000A4.03The only component cooled is the Fire Pumps which are self cooled. Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.286000A4.03The only component cooled is the Fire Pumps which are self cooled. Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.	286000	A1.06	Ability to predict and/or monitor changes in parameters associated with operating the FIRE PROTECTION SYSTEM controls including:	Tank pressure: Plant-Specific
286000A4.02The only component cooled is the Fire Pumps which are self cooled. Ability to manually operate and/or monitor in the control room:Applicable component cooling water system: Plant-Specific286000A4.03The only component cooled is the Fire Pumps which are self cooled. Ability to manually operate and/or monitor in the control room:Applicable component cooling water system: Plant-Specific286000A4.03Ability to manually operate and/or monitor in the 	286000	A2.04	Clinton is a BWR 6 and does not utilize this system. Ability to (a) predict the impacts of the following on the FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	Applicable component cooling water system failure: Plant-Specific
286000A4.03The only component cooled is the Fire Pumps which are self cooled.286000A4.03Ability to manually operate and/or monitor in the control room: The only component cooled is the Fire Pumps which are self cooled.	286000	A4.02	The only component cooled is the Fire Pumps which Ability to manually operate and/or monitor in the control room:	are self cooled. Applicable component cooling water system: Plant-Specific
The only component cooled is the Fire Pumps which are self cooled.	286000	A4.03	The only component cooled is the Fire Pumps which Ability to manually operate and/or monitor in the control room:	are self cooled. Applicable component cooling water pressure
			The only component cooled is the Fire Pumps which	are self cooled.

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
286000	K1.01	Knowledge of the physical connections and/or cause- effect relationships between FIRE PROTECTION SYSTEM and the following:	Component cooling water systems
286000	K1.02	The only component cooled is the Fire Pumps which Knowledge of the physical connections and/or cause- effect relationships between FIRE PROTECTION SYSTEM and the following:	are self cooled. Isolation condenser: Plant-Specific
286000	K1.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between FIRE PROTECTION SYSTEM and the following:	Auxiliary (boiler) steam system:
286000	K1.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between FIRE PROTECTION SYSTEM and the following:	Intake canals: Plant-Specific
286000	K5.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to FIRE PROTECTION SYSTEM:	Gas refrigeration: Plant-Specific
286000	K6.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the FIRE PROTECTION SYSTEM	Applicable component cooling water system: Plant-Specific
D1 11		The only component cooled is the Fire Pumps which	are self cooled.
Plant Ventil	ation System	ems	
288000	K3.02	Knowledge of the effect that a loss or malfunction of the PLANT VENTILATION SYSTEMS will have on following:	Reactor building temperature: Plant-Specific
288000	K3.05	Clinton is a BWR 6 and does not utilize this configura Knowledge of the effect that a loss or malfunction of the PLANT VENTILATION SYSTEMS will have on following:	ation. Reactor building pressure: Plant-Specific
<b>.</b>	~ . •	Clinton is a BWR 6 and does not utilize this configura	ation.
Secondary (	Containme	nt	
290001	К1.01	Knowledge of the physical connections and/or cause- effect relationships between SECONDARY CONTAINMENT and the following:	Reactor building ventilation: Plant-Specific
290001	K1.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between SECONDARY CONTAINMENT and the following:	Exhaust stack: BWR-2, 3, 4
290001	K1.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between SECONDARY CONTAINMENT and the following:	Auxiliary boiler system: BWR-2, 3, 4
290001	K5.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT:	Vacuum breaker operation: BWR-4
		Clinton is a BWR 6 and does not utilize this configur	ation.

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
290001	K5.02	Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT:	Flow measurement: BWR-3
290001	K6.01	Clinton is a BWR 6 and does not utilize this configura Knowledge of the effect that a loss or malfunction of the following will have on the SECONDARY CONTAINMENT:	ntion. Reactor building ventilation: Plant-Specific
290001	K6.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the SECONDARY CONTAINMENT:	Auxiliary boiler system: BWR-3, 4
		Clinton is a BWR 6 and does not have this configural	lion
Reactor Ves	ssel Interna	ls	
290002	K1.04	Knowledge of the physical connections and/or cause- effect relationships between REACTOR VESSEL INTERNALS and the following:	HPCI: Plant-Specific
290002	K1.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the physical connections and/or cause- effect relationships between REACTOR VESSEL INTERNALS and the following:	Isolation condenser: Plant-Specific
290002	K6.10	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR VESSEL INTERNALS:	HPCI: Plant-Specific
290002	K6.12	Clinton is a BWR 6 and does not utilize this system. Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR VESSEL INTERNALS:	Isolation condenser: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Control Roc	om HVAC		
290003	K1.02	Knowledge of the physical connections and/or cause- effect relationships between CONTROL ROOM HVAC and the following:	Chlorine amonia detectors: Plant-Specific
		Clinton does not utilize this component.	
294001	2.2.3	Equipment Control	(multi-unit) Knowledge of the design, procedural, and operational differences
		Olisten is a single with facility	between units.
294001	2.2.4	Equipment Control	(multi-unit) Ability to explain the variations in control board layouts, systems, instrumentation and procedural actions between units at a facility.
		Clinton is a single-unit facility.	
Partial or C	omplete Lo	oss of Forced Core Flow	
295001	AA1.03	Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION:	RMCS: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
295001	AA1.08	Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION:	Standby liquid control: BWR-1
295001	AK2.05	Clinton is a BWR-6 and does not utilize this feature. Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION and the following:	LPCI loop select logic: Plant-Specific
295001	AK2.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION and the following:	Standby liquid control: BWR-1
		Clinton is a BWR-6 and does not utilize this feature.	
Loss of Mai	n Condens	er Vacuum	
295002	AK3.08	Knowledge of the reasons for the following responses as they apply to LOSS OF MAIN CONDENSER VACUUM:	Recirculation system run-backs:
Partial or C	omplete Lo	Clinton does not utilize this function. ss of A.C. Power	
295003	AK2.05	Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF A.C. POWER and the following:	Isolation condenser: Plant-Specific
295003	AK3.07	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to PARTIAL OR COMPLETE LOSS OF A.C. POWER:	Initiation of isolation condenser:
Partial or C	omplete Lo	Clinton is a BWR 6 and does not utilize this system.	
			Automatic load shadding, Diast Crasific
290004	AKT.UT	following concepts as they apply to PARTIAL OR COMPLETE LOSS OF D.C. POWER:	Automatic load shedding. Plant-Specific
Main Turbi	ne Generati	Clinton is a BWR 6 and does not utilize this system.	
206005	AK2 00	Knowledge of the interrelations between MAIN	Eeedwater-HPCI: BW/R-2
230000	AN2.00	TURBINE GENERATOR TRIP and the following:	
295005	AK3.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to MAIN TURBINE GENERATOR TRIP:	Feedwater-HPCI actuation: BWR-2
		Clinton is a BWR 6 and does not utilize this system.	
High Reacto	or Pressure		
295007	AA1.01	Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:	Isolation condenser: Plant-Specific
295007	AA1.02	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:	HPCI: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	

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System	n No. K/A No.	Category	K/A Statement
		Suppression Basis	
295007	AK3.01	Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	Isolation condenser operation: Plant-Specific
295007	AK3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	HPCI operation: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
High F	Reactor Water L	evel	
295008	AA1.04	Ability to operate and/or monitor the following as they apply to HIGH REACTOR WATER LEVEL:	HPCI: Plant-Specific
295008	AK1.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH REACTOR WATER LEVEL:	Containment integrity: Alis-Chalmers
295008	AK2.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH REACTOR WATER LEVEL and the following:	HPCI: Plant-Specific
295008	AK3.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	HPCI turbine trip: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
High I	Orywell Pressure	e	
295010	AA1.03	Ability to operate and/or monitor the following as they apply to HIGH DRYWELL PRESSURE:	Nitrogen makeup: Plant-Specific
295010	AA2.04	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to HIGH DRYWELL PRESSURE:	Drywell humidity: Plant-Specific
295010	<b>AK</b> 1.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL PRESSURE:	Downcomer submergence: Mark-I&II
295010	AK2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	Drywell/suppression chamber differential pressure: Mark-I&II
295010	AK2.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	Nitrogen makeup system: Plant-Specific
295010	AK3.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL	Termination of drywell inerting:
		Clinton is a BWR 6 and does not utilize this system.	
High (	Containment Ter	mperature (Mark III	
295011	AA2.03	Ability to determine and/or interpret the following as they apply to HIGH CONTAINMENT TEMPERATURE (MARK III CONTAINMENT ONLY):	Containment humidity: Mark-III
		Clinton does not utilize humidity monitoring instrume	antation for containment.
	~ 11 ~		

High Drywell Temperature

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
295012	AA2.03	Ability to determine and/or interpret the following as they apply to HIGH DRYWELL	Drywell humidity: Plant-Specific
Inadvertent	t Reactivity	Clinton does not utilize humidity monitoring instrume Addition	antation for containment.
295014	AA1.03	Ability to operate and/or monitor the following as they apply to INADVERTENT REACTIVITY	RMCS: Plant-Specific
295014	AK1.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the operational implications of the following concepts as they apply to INADVERTENT REACTIVITY ADDITION:	Prompt critical
295014	AK2.08	Prompt criticality is addressed during fundamental to Knowledge of the interrelations between INADVERTENT REACTIVITY ADDITION and the following:	raining only. RMCS: Plant-Specific
Incomplete	SCRAM	Clinton is a BWR 6 and does not utilize this system.	
neompiete			
295015	AA1.03	Ability to operate and/or monitor the following as they apply to INCOMPLETE SCRAM:	RMCS: Plant-Specific
295015	AA1.05	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to INCOMPLETE SCRAM:	Rod worth minimizer: Plant-Specific
295015	AA1.06	Clinton is a BWR 6 and does not utilize this compon Ability to operate and/or monitor the following as they apply to INCOMPLETE SCRAM:	ent. RSCS: Plant-Specific
295015	AK2.02	Clinton is a BWR-6 and does not utilize this system. Knowledge of the interrelations between INCOMPLETE SCRAM and the following:	RMCS: Plant-Specific
295015	AK2.05	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between INCOMPLETE SCRAM and the following:	Rod worth minimizer: Plant-Specific
295015	AK2.06	Clinton is a BWR 6 and does not utilize this compon Knowledge of the interrelations between INCOMPLETE SCRAM and the following:	ent. RSCS: Plant-Specific
295015	AK2.09	Clinton is a BWR-6 and does not utilize this system. Knowledge of the interrelations between INCOMPLETE SCRAM and the following:	RPIS
<b>A</b>		Clinton is a BWR 6 and does not utilize this system.	
Control Ro	om Abando	onment	
295016	AA1.02	Ability to operate and/or monitor the following as they apply to CONTROL ROOM	Reactor/turbine pressure regulating system
		At Clinton, no part of the reactor/turbine pressure re Room Abandonment.	gulating system is operated during Control
295016	AA1.09	Ability to operate and/or monitor the following as they apply to CONTROL ROOM	Isolation/emergency condenser(s): Plant-Specific
295016	AA2.05	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to CONTROL ROOM	Drywell pressure
		It has been determined that no psychometrically vial NUREG-1021, Rev.9 requirements and expectations	ble question (i.e., that satisfies all of the s) can be developed in accordance with

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
295016	AA2.07	Ability to determine and/or interpret the following as they apply to CONTROL ROOM	Suppression chamber pressure
		Clinton is a BWR 6 and does not utilize this system.	
Partial or C	Complete Lo	oss of Instrument Air	
295019	AK2.13	Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF INSTRUMENT AIR and the following:	Isolation condenser: Plant-Specific
295019	AK2.17	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF INSTRUMENT AIR and the following:	High pressure coolant injection:
_	~ /	Clinton is a BWR 6 and does not utilize this system.	
Inadvertent	Containm	ent Isolation	
295020	AK2.05	Knowledge of the interrelations between INADVERTENT CONTAINMENT ISOLATION and the following:	Isolation condenser: Plant-Specific
295020	AK2.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between INADVERTENT CONTAINMENT ISOLATION and the following:	HPCI: Plant-Specific
295020	AK2.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between INADVERTENT CONTAINMENT ISOLATION and the following:	Traversing in-core probes: Plant-Specific
295020	AK3.08	Clinton is a BWR 6 and Traversing In-Core Probes a Knowledge of the reasons for the following responses as they apply to INADVERTENT CONTAINMENT ISOLATION:	are inside Primary Containment. Suppression chamber pressure response
		Clinton is a BWR 6 and does not utilize this system.	
Loss of CR	D Pumps		
295022	AK2.06	Knowledge of the interrelations between LOSS OF CRD PUMPS and the following:	Shared components with other units: Plant-Specific
		Clinton is a single-unit facility.	
Refueling /	Accidents		
295023	AK3.05	Knowledge of the reasons for the following responses as they apply to REFUELING	Plant-Specific(BWR-1)
Ulah Dran	all Dressur	Clinton is a BWR-6 and does not utilize this feature.	
ingi Diyw	EA1 01	Ability to exercise and/or manifer the following as	HPCL/EM/CI): Plant-Specific
295024	EAT.01	they apply to HIGH DRYWELL PRESSURE:	
295024	EA1.11	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to HIGH DRYWELL PRESSURE:	Drywell spray: Mark-I&II
295024	EA1.12	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to HIGH DRYWELL PRESSURE:	Suppression pool spray: Mark-I&II
		Clinton is a BWR 6 and does not utilize this system.	

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
295024	EA1.21	Ability to operate and/or monitor the following as they apply to HIGH DRYWELL PRESSURE:	Recirculation system (LPCI loop select logic): Plant-Specific
295024	EA2.04	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to HIGH DRYWELL PRESSURE:	Suppression chamber pressure:
295024	EA2.05	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to HIGH DRYWELL PRESSURE:	Suppression chamber air-space temperature: Plant-Specific
295024	EK2.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	HPCI (FWCI): Plant-Specific
295024	EK2.11	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	Drywell spray (RHR) logic: Mark-I&II
295024	EK2.13	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	Suppression pool spray: Plant-Specific
295024	EK2.17	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:	Auxiliary building isolation logic:
295024	EK3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL	Drywell spray operation: Mark-I&II
295024	EK3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL	Suppression pool spray operation:
295024	EK3.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL	Auxiliary building isolation: Plant-Specific,
	_	Clinton is a BWR 6 and does not utilize this system.	
High React	or Pressure		
295025	EA1.04	Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:	HPCI: Plant-Specific
295025	EA1.06	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:	Isolation condenser: Plant-Specific
295025	EA1.08	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:	RRCS: Plant-Specific
295025	EK2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH REACTOR PRESSURE and the following:	Isolation condenser: Plant-Specific
295025	EK2.03	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH REACTOR PRESSURE and the following:	RRCS: Plant-Specific
295025	EK2.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH REACTOR PRESSURE and the following:	HPCI: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	

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System No. K/A	No. Category	K/A Statement
	Suppression Basis	
295025 EK3.0	3 Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	HPCI operation: Plant-Specific
295025 EK3.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	em. Isolation condenser initiation: Plant-Specific
295025 EK3.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the reasons for the following responses as they apply to HIGH REACTOR	am. RRCs initiation: Plant-Specific
	Clinton is a BWR 6 and does not utilize this syste	əm.
Suppression Pool	High Water Temperature	
295026 EA1.0	2 Ability to operate and/or monitor the following as they apply to SUPPRESSION POOL HIGH WATER TEMPERATURE:	Suppression pool spray: Plant-Specific
295026 EK2.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the interrelations between SUPPRESSION POOL HIGH WATER TEMPERATURE and the following:	am. Suppression pool spray: Plant-Specific
295026 EK2.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the interrelations between SUPPRESSION POOL HIGH WATER TEMPERATURE and the following:	ern. Suppression chamber pressure: Mark-I&II
295026 EK3.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the reasons for the following responses as they apply to SUPPRESSION POOL HIGH WATER TEMPERATURE:	em. Suppression pool spray: Plant-Specific
	Clinton is a BWR 6 and does not utilize this syste	am.
High Drywell Ter	nperature	
295028 EA1.0	Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE	Drywell spray: Mark-I&II
295028 EA2.0	Clinton is a BWR 6 and does not utilize this syste 5 Ability to determine and/or interpret the following as they apply to HIGH DRYWELL	am. Torus/suppression chamber pressure: Plant-Specific
295028 EA2.0	Clinton is a BWR 6 and does not utilize this system Ability to determine and/or interpret the following as they apply to HIGH DRYWELL	em. Torus/suppression chamber air space temperature: Plant-Specific
295028 EK2.0	Clinton is a BWR 6 and does not utilize this syste 1 Knowledge of the interrelations between HIGH DRYWELL TEMPERATURE and the following:	am. Drywell spray: Mark-I&II
295028 EK3.0	Clinton is a BWR 6 and does not utilize this syste Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL	am. Drywell spray operation: Mark-I&II
High Suppression	Clinton is a BWR 6 and does not utilize this syste Pool Water Level	əm.
205020 EA4.0	Ability to operate and/or monitor the following as	HPCI: Diant Specific
299029 EA1.0	they apply to HIGH SUPPRESSION POOL WATER LEVEL:	
	Clinton is a BWR 6 and does not utilize this syste	əm.

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System No.	K/A No.	Category	K/A Statement
		Suppression Basis	
295029	EK2.02	Knowledge of the interrelations between HIGH SUPPRESSION POOL WATER LEVEL and the following:	HPCI: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Low Suppre	ession Pool	Water Level	
295030	EA1.05	Ability to operate and/or monitor the following as they apply to LOW SUPPRESSION POOL WATER LEVEL:	HPCI
295030	EA2.04	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to LOW SUPPRESSION POOL WATER LEVEL:	Drywell/ suppression chamber differential pressure: Mark-I&II
295030	EK2.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between LOW SUPPRESSION POOL WATER LEVEL and the following:	HPCI: Plant-Specific
295030	EK3.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to LOW SUPPRESSION POOL WATER LEVEL:	HPCI operation: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Reactor Lov	v Water Le	vel	
295031	EA1.02	Ability to operate and/or monitor the following as they apply to REACTOR LOW WATER LEVEL:	High pressure (feedwater) coolant injection: Plant-Specific
295031	EA1.09	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to REACTOR LOW WATER LEVEL:	Isolation condenser: Plant-Specific
295031	EK2.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between REACTOR LOW WATER LEVEL and the	High pressure (feedwater) coolant injection (FWCI/HPCI): Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
Secondary (	Containmer	nt High Differential	
295035	EK2.04	Knowledge of the interrelations between SECONDARY CONTAINMENT HIGH DIFFERENTIAL PRESSURE and the following:	Blow-out panels: Plant-Specific
295035	EK3.01	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to SECONDARY CONTAINMENT HIGH DIFFERENTIAL	Blow-out panel operation: Plant-Specific
Secondary (	Containmer	Clinton is a BWR 6 and does not utilize this system. It High Sump/Area Water	
295036	EK2.02	Knowledge of the interrelations between SECONDARY CONTAINMENT HIGH SUMP/AREA WATER LEVEL and the following:	Post-accident sampling system:
		The PASS system is not operated, nor is it monitored	d by licensed operators at Clinton.
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SCRAM Condition Present and Reactor Power

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System No	o. K/A No.	Category	K/A Statement
		Suppression Basis	
295037	EA1.02	Ability to operate and/or monitor the following as they apply to SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN:	RRCS: Plant-Specific
295037	EA1.07	Clinton is a BWR 6 and does not utilize this system. Ability to operate and/or monitor the following as they apply to SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN:	RMCS: Plant-Specific
295037	EK2.02	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN and the following:	RRCS: Plant-Specific
295037	EK2.11	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN and the following:	RMCS: Plant-Specific
295037	EK2.14	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN and the following:	RPIS: Plant-Specific
		Clinton is a BWR 6 and does not utilize this system.	
High Off-S	site Release	e Kate	
295038	EA1.05	Ability to operate and/or monitor the following as they apply to HIGH OFF-SITE RELEASE RATE:	Post accident sample system (PASS): Plant-Specific
Instrument	Air Systen	The PASS system is not operated, nor is it monitore $n$ (IAS)	d by licensed operators at Clinton.
300000	K1.01	Knowledge of the connections and/or cause effect relationships between INSTRUMENT AIR SYSTEM and the following:	Sensor air
300000	K2.02	Clinton is a single-unit facility which does use this co Knowledge of electrical power supplies to the following:	onfiguration. Emergency air compressor
300000	K3.03	Clinton does not utilize this component. Knowledge of the effect that a loss or malfunction of the (INSTRUMENT AIR SYSTEM) will have on the following:	Cross-tied units
300000	K4.01	Clinton is a single-unit facility which does use this co Knowledge of (INSTRUMENT AIR SYSTEM) design feature(s) and or interlocks which provide for the following:	onfiguration. Manual/automatic transfers of control
300000	K5.04	It has been determined that no psychometrically via NUREG-1021, Rev. 9 requirements and expectation Knowledge of the operational implications of the following concepts as they apply to the INSTRUMENT AIR SYSTEM:	ble question (i.e., one that meets all of the ns) can be developed in accordance with Service air refusal valve
		Clinton does not utilize this component.	

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System No	. K/A No.	Category	K/A Statement
		Suppression Basis	
300000	K6.04	Knowledge of the effect that a loss or malfunction of the following will have on the INSTRUMENT AIR SYSTEM:	Service air refusal valve
High Conta	unment Hv	Clinton is a single-unit facility which does use this co	onfiguration.
E00000	EA1 05	Ability to operate and manifer the following on	Motural annava
500000	EA1.05	they apply to HIGH CONTAINMENT HYDROGEN CONTROL:	vvetweit sprays
500000	EA1.06	Clinton is a BWR 6 and does not utilize this system. Ability to operate and monitor the following as they apply to HIGH CONTAINMENT HYDROGEN CONTROL:	Drywell sprays
500000	EA1.07	Clinton is a BWR 6 and does not utilize this system. Ability to operate and monitor the following as they apply to HIGH CONTAINMENT HYDROGEN CONTROL:	Nitrogen purge system
500000	EA2.04	Clinton is a BWR 6 and does not utilize this system. Ability to determine and/or interpret the following as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN	Combustible limits for wetwell
500000	EK2.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following:	Wetwell Spray system
500000	EK2.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following:	Wet Well vent system
500000	EK2.09	Clinton is a BWR 6 and does not utilize this system. Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following:	Drywell nitrogen purge system
500000	ЕКЗ.04	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN	Emergency depressurization
		Clinton does not perform an Emergency Depressuri	zation due to a high containment hydrogen
500000	EK3.05	condition. Knowledge of the reasons for the following responses as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN	Operation of wet well (suppression pool)
500000	EK3.06	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN	Operation of wet well vent
500000	EK3.08	Clinton is a BWR 6 and does not utilize this system. Knowledge of the reasons for the following responses as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN	Operation of drywell nitrogen purge system
		Clinton is a BWR 6 and does not utilize this system.	
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<u>11/15/</u>06 Date ¥ Operating Department

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#### Facility: CPS

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System Number: 201001

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	System Name: Control Rod Drive Hydraulic System		<u>NRC</u>	Imp	<u>Facili</u>	<u>ty Imp</u>
$\smile$		CFR	RO	SRO	RO	SRO
К1	Knowledge of the physical connections and/or cause-	(41.2 to 41.9 / 45.7 to				
	effect relationships between CONTROL ROD DRIVE	45.8)				
<b>V</b> 101	Condensate sustem		31	31	3 1	3 1
K1.01	Condensate storage tanks		3.0	3.0	3.0	3.0
K1.02	Pecirculation numes (seal nume): Plant-Specific		31	31	31	31
K1.05	Head spraw BWP-3		27	27	27	27
K1.04	Freedwater (or reactor water gleanun) CPD return to vessel.		2.7	2.7	2.7	2.7
N1.05	Plant-Specific		2.7	2.7	2.7	2.7
K1.06	Component cooling water systems: Plant-Specific		2.8	2.8	2.8	2.8
K1.07	Reactor protection system		3.4	3.4	3.4	3.4
K1.08	Reactor manual control system		3.4	3.4	3.4	3.4
K1.09	Plant air systems		3.1	3.2	3.1	3.2
K1.10	Control rod drive mechanisms		2.8	2.8	2.8	2.8
<b>K1</b> .11	Reactor water cleanup pumps: Plant-Specific		2.8	2.8	2.8	2.8
К2	Knowledge of electrical power supplies to the following:	(41.7)				
K2.01	Pumps		2.9	3.1	2.9	3.1
K2.02	Scram valve solenoids		3.6*	3.7	3.6	3.7
K2.03	Backup SCRAM valve solenoids		3.5*	3.6*	3.5	3.6
K2.04	Scram discharge volume vent and drain valve solenoids		3.2	3.3	3.2	3.3
<b>\$2.05</b>	Alternate rod insertion valve solenoids: Plant-Specific		4.5*	4.5*	4.5	4.5
∕K2.06	Motor operated valves		2.1*	2.3*	2.1	2.3
K2.07	Breaker control		2.0*	2.1*	2.0	2.1
КЗ	Knowledge of the effect that a loss or malfunction of the	(41.7 / 45.4)				
	CONTROL ROD DRIVE HYDRAULIC SYSTEM will					
	have on following:					
K3.01	Recirculation pumps: Plant-Specific		3.0	3.1	3.0	3.1
K3.02	Reactor water level		2.6	2.6	2.6	2.6
K3.03	Control rod drive mechanisms		3.1	3.2	3.1	3.2
K3.04	Head spray: BWR-3		2.7	2.7	2.7	2.7
K3.05	Reactor water cleanup pumps: Plant-Specific		2.3	2.3	2.3	2.3

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#### System Number: 201001

Facility: CPS

	System Name: Control Rod Drive Hydraulic System			<u>NRC</u>	<u>NRC Imp</u>		Facility I	
			CFR	RO	SRO	RO	S.,	
К4	Knowledge of	CONTROL ROD DRIVE HYDRAULIC	(41.7)					
	provide for th	e following:						
K4.01	Protection ag	ainst pump runout during SCRAM conditions		2.5	2.6	2.5	2.6	
	(location of t orifice in the	he CRD system flow element and a restricting accumulator charging water line)						
K4.02	Stable systen valves)	n flow when moving control rods (stabilizing		2.6	2.6	2.6	2.6	
K4.03	Control rod d	lrive mechanism cooling water flow		2.7	2.7	2.7	2.7	
K4.04	Scramming c valves (back-	control rods with inoperative SCRAM solenoid -up SCRAM valves)		3.6	3.6	3.6	3.6	
K4.05	Control rod S	SCRAM		3.8	3.8	3.8	3.8	
K4.06	Isolation of t SCRAM con	he SCRAM discharge volumes during ditions		3.8	3.9	3.8	3.9	
K4.07	Testing SCR	AM discharge volume isolation valves		2.8	2.8	2.8	2.8	
K4.08	Controlling c	control rod drive header pressure		3.1	3.0	3.1	3.0	
K4.09	Controlling c	control rod drive cooling header pressure		2.9	2.8	2.9	2.8	
K4.10	Control of ro	d movement (HCU directional control valves)		3.1	3.0	3.1	3.0	
K4.11	Protection ag conditions	ainst filling the SDV during non-SCRAM		3.6	3.6	3.6	3.6	
K4.12	Controlling C	CRD system flow		2.9	2.9	2.9	2.9	
K4.13	Motor coolin	g		2.3	2.3	2.3	2.3	
K5	Knowledge of following cone DRIVE HVD	the operational implications of the cepts as they apply to CONTROL ROD	(41.5 / 45.3)					
K 5 01	Pump operati	ion		2.4	2.4	2.4	2.4	
K5.02	Flow indicati	ion		2.6	2.6	2.6	2.6	
K5.03	Pressure indi	cation		2.7	2.7	2.7	2.7	
K5.04	Indications o	of pump cavitation		2.4	2.4	2.4	2.4	
K5.05	Indications o	of pump runout: Plant-Specific		2.7	2.7	2.7	2.7	
K5.06	Differential r	pressure indication		2.5	2.6	2.5	2.6	
K5.07	Air operated	control valves		2.3	2.4	2.3	2.4	
K5.08	Solenoid ope	erated valves		2.5	2.6	2.5	2.6	
K5.09	System venti	ng		2.2*	2.2*	2.2	2.2	
K6	Knowledge of following will HYDRAIILIC	f the effect that a loss or malfunction of the have on the CONTROL ROD DRIVE C System:	(41.7 / 45.7)					
<b>K6.0</b> 1	Condensate s	system		2.8	2.8	2.8	2.8	
K6.02	Condensate	storage tanks		3.0	3.1	3.0	3.1	
K6.03	Plant air syst	lems		3.0	2.9	3.0	2.9	
K6.04	RPS			3.6	3.7	3.6	3.7	
K6.05	A.C. power			3.3	3.3	3.3	3.3	
K6.06	Component	cooling water systems: Plant-Specific		2.8	2.8	2.8	2.8	

	Facility: CPS					Printe	a: 08/1	1/2000
	System Number:	201001						
	System Name <sup>,</sup>	Control Rod Drive Hydraulic System			NRC	Imp	Facili	ty Imp
~	<u>System Mane</u>			CFR	RO	SRO	RO	SRO
Al	Ability to pred associated with HYDRAULIC	lict and/or monitor changes in parameters n operating the CONTROL ROD DRIVE SYSTEM controls including:	(41.5 / 45.5)					
A1.01	CRD drive wa	ater header pressure			3.1	2.9	3.1	2.9
A1.02	CRD cooling	water header pressure			2.9	2.9	2.9	2.9
A1.03	CRD system	flow			2.9	2.8	2.9	2.8
A1.04	Head spray fle	w: BWR-3			2.7	2.7	2.7	2.7
A1.05	SDV isolation	n valve position			3.5	3.4	3.5	3.4
A1.06	HCU pressure	e/level			3.4	3.4	3.4	3.4
A1.07	Reactor water	r level			3.3	3.2	3.3	3.2
A1.08	Pump amps				2.3	2.2	2.3	2.2
A1.09	CRD drive w	ater flow			2.9	2.8	2.9	2.8
A1.10	CRD cooling	water flow			2.8	2.6	2.8	2.6
A2	Ability to (a) p CONTROL R (b) based on th control, or mit conditions or o	predict the impacts of the following on the OD DRIVE HYDRAULIC SYSTEM; and hose predictions, use procedures to correct, tigate the consequences of those abnormal operations:	(41.5 / 45.6)					
A2.01	Pumps trips				3.2	3.3	3.2	3.3
A2.02	Valve closure	28			3.2	3.3	3.2	3.3
<u>\2.03</u>	Power supply	/ failures			3.0	3.1	3.0	3.1
A2.04	†Scram cond	itions			3.8	3.9*	3.8	3.9
A2.05	Discharge str	ainer(s) becoming plugged			2.9	2.9	2.9	2.9
A2.06	Suction strair	ner(s) becoming plugged			2.9	2.9	2.9	2.9
A2.07	Flow control	valve failure			3.2	3.1	3.2	3.1
A2.08	Inadequate sy	ystem flow			2.8	2.8	2.8	2.8
A2.09	Loss of appli	cable plant air systems			3.2	3.1	3.2	3.1
A2.10	†Low HCU a	accumulator pressure/high level			3.5	3.6	3.5	3.6
A2.11	Valve openin	ngs			2.6	2.7	2.6	2.7
A2.12	High cooling	water flow			2.8	2.9	2.8	2.9
A2.13	Low cooling	water flow			2.7	2.8	2.7	2.8
A2.14	Low drive he	ader pressure			2.8	2.8	2.8	2.8

Low drive header pressure A2.14

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#### System Number: 201001

Facility: CPS

	System Name: Control Rod Drive Hydraulic System		NRC	lmp	Facili	ty l
		CFR	RO	SRO	RO	512-
A3	Ability to monitor automatic operations of the (41.7 / CONTROL ROD DRIVE HYDRAULIC SYSTEM	/ 45.7)				
	including:					
A3.01	Valve operation		3.0	3.0	3.0	3.0
A3.02	Pump start: Plant-Specific		2.8	2.8	2.8	2.8
A3.03	System pressure		2.7	2.7	2.7	2.7
A3.04	System flow		2.8	2.7	2.8	2.7
A3.05	Reactor water level		2.8	2.8	2.8	2.8
A3.06	Reactor power		2.8	2.8	2.8	2.8
A3.07	HCU accumulator pressure/level		3.3	3.3	3.3	3.3
A3.08	Drive water flow		3.0	2.9	3.0	2.9
A3.09	Cooling water flow		2.8	2.8	2.8	2.8
A3.10	Lights and alarms		3.0	2.9	3.0	2.9
A3.11	SDV level		3.5	3.5	3.5	3.5
A4	Ability to manually operate and/or monitor in the control (41.7 /	/ 45.5 to 45.8)				
A 4 01	room:		2.1	2.1	2.1	~ 1
A4.01	CRD pumps		3.1	3.1	3.1	3.1
A4.02	CRD pump discharge valve		2.6	2.6	2.6	2.6
A4.03	CRD system flow control valve		2.9	2.8	2.9	2.8
A4.04	Drive water header pressure control valve		3.1	3.0	3.1	3.0
A4.05	Cooling water header pressure control valve		2.7	2.8	2.7	
A4.06	SDV isolation valve test switch		2.8	2.7	2.8	2.7
A4.07	Stabilizing valve selector switch		2.2*	2.1*	2.2	2.1

Facility: CPS

System Number: 201002

	System Name: Reactor Manual Control System		NRC	Ĭmp	Facili	ty Imp
$\sim$	- <u>-</u>	CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or cause-	(41.2 to 41.9 / 45.7 to				
	effect relationships between REACTOR MANUAL	45.8)				
	CONTROL SYSTEM and the following:	····,				
K1.01	Control rod drive hydraulic system		3.2	3.2	3.2	3.2
K1.02	Control rod and drive mechanism		3.0	2.9	3.0	2.9
K1.03	Control rod block interlocks/power operation refueling		3.4	3.6	3.4	3.6
K1.04	Rod block monitor: Plant-Specific		3.5	3.6	3.5	3.6
K1.05	Rod worth minimizer: Plant-Specific		3.4	3.5	3.4	3.5
K1.06	Rod sequence control system: Plant-Specific		3.2	3.3	3.2	3.3
K1.07	Process computer: Plant Specific		2.8	2.9	2.8	2.9
K1.08	<b>†Refueling interlocks: Plant-Specific</b>		3.2	3.6	3.2	3.6
К2	Knowledge of electrical power supplies to the following:	(41.7)				
K2.01	Select matrix		2.1*	2.3*	2.1	2.3
K2.02	CRD HCU directional control valves		2.1*	2.3*	2.1	2.3
К3	Knowledge of the effect that a loss or malfunction of the	(41.7 / 45.4)				
	REACTOR MANUAL CONTROL SYSTEM will have on					
	following:					
K3.01	Ability to move control rods		3.4	3.4	3.4	3.4
K3.02	<b>†Rod block-monitor: Plant-Specific</b>		2.9	3.2	2.9	3.2
₩K3.03	Ability to process rod block signals		2.9	3.0	2.9	3.0
К4	Knowledge of REACTOR MANUAL CONTROL	(41.7)				
	SYSTEM design feature(s) and/or interlocks which					
	provide for the following:		0.7	<u> </u>		
K4.01	Detection of sequence timer-maltunction		2.7	2.7	2.7	2.1
K4.02	Control-rod-blocks		3.5	3.5	3.5	3.5
K4.03	Detection of drifting control rods		3.0 2.2	3.0	3.0	2.0
K4.04	Single notch rod withdrawal and insertion		3.3	2.2	3.3	3.3
K4.05	Notch override rod withdrawal		3.3	3.3 2.5	3.3	2.5
K4.06	timergency in rod insertion		3.J 15*	3.J 75*	3.5	3.3 25
K4.07	Timing of rod insert and withdrawai cycles (rod movement- sequence timer)		2.5	2.3	2.5	2.5
K4.08	Continuous In rod insertion		3.2	3.2	3.2	3.2
K6	Knowledge of the effect that a loss or malfunction of the	(41.7 / 45.7)				
	IONOWING WID HAVE ON THE KEAUTUK MANUAL					
<b>K</b> 6 01	CONTROL ST ST ENT: Select matrix nower		25	2.6	25	26
<b>NO.U1</b>	ocicci man in power		2.5	2.0	2.2	2.0

	Facility: CPS			Printe	ed: 08/1	1/2006
	System Number: 201002					
	System Name: Reactor Manual Control System		NRC	Imp	Facili	tv I
		CFR	RO	SRO	RO	5.50
A1	Ability to predict and/or monitor changes in parameters	(41.5 / 45.5)				
	associated with operating the REACTOR MANUAL					
A1.01	CRD drive water flow		2.8	2.8	2.8	2.8
A1.02	Control rod position		3.4	3.3	3.4	3.3
A1.03	Rod-movement sequence lights		3.0	2.9	3.0	2.9
A1.04	Overall reactor power		3.6	3.5	3.6	3.5
A1.05	Local reactor power		3.4	3.6	3.4	3.6
A2	Ability to (a) predict the impacts of the following on the REACTOR MANUAL CONTROL SYSTEM; and (b)	(41.5 / 45.6)				
	based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:					
A2.01	Rod movement sequence timer malfunctions		2.7	2.8	2.7	2.8
A2.02	Rod drift alarm		3.2	3.3	3.2	3.3
A2.03	Select block		2.9	2.8	2.9	2.8
A2.04	Control rod block		3.2	3.1	3.2	3.1
A3	Ability to monitor automatic operations of the REACTOF MANUAL CONTROL SYSTEM including:	8 (41.7 / 45.7)				
A3.01	Control rod block actuation		3.2	3.1	3.2	· · · · ·
A3.02	Rod movement sequence lights		2.8	2.7	2.8	2.7
A3.03	Rod drift alarm		3.2	3.2	3.2	3.2
A3.04	Rod movement sequence timer malfunction alarm: Plant Sp	eific	2.8	2.8	2.8	2.8
A4	Ability to manually operate and/or monitor in the control room:	(41.7 / 45.5 to 45.8)				
A4.01	Rod movement control switch		3.5	3.4	3.5	3.4
A4.02	Emergency in/notch override switch		3.5	3.5	3.5	3.5
A4.03	Rod drift test switch		2.8	2.8	2.8	2.8
A4.04	Timer malfunction test switch: Plant-Specific		2.8	2.8	2.8	2.8
A4.05	Rod select matrix		3.1	3.0	3.1	3.0
A4.06	Rod select matrix power switch		2.8	2.8	2.8	2.8

Facility: CPS

System Number: 201003

	System Name: Control Rod and Drive Mechanism		NRC	Imp	Facili	ty Imp
~		CFR	RO	SRO	RO	SRC
K1	Knowledge of the physical connections and/or cause-	(41.2 to 41.9 / 45.7 to				
	effect relationships between CONTROL ROD AND	45.8)				
	DRIVE MECHANISM and the following:					
K1.01	Control rod drive hydraulic system		3.2	3.3	3.2	3.3
K1.02	Reactor water		2.9	3.0	2.9	3.0
K1.03	RPIS		3.1	3.1	3.1	3.1
K1.04	Reactor vessel		2.9	2.9	2.9	2.9
K1.05	CRD mechanism temperature monitor		2.6	2.6	2.6	2.6
K3	Knowledge of the effect that a loss or malfunction of the	(41.7 / 45.4)				
	on following:					
K3 01	Reactor power		3.2	3.4	3.2	3.4
K3.01	tElux shaping		2.8	3.1	2.8	3.1
K3.02	†Shutdown margin		3.2	3.8	3.2	3.8
17.4		(41.7)				
K4	Knowledge of CONTROL ROD AND DRIVE MECHANISM design feature(s) and/or interlocks which provide for the following:	(41.7)				
K4 01	Limiting control rod speed in the event of a rod drop		2.9*	3.0*	2.9	3.0
K4.01 K4.02	Detection of an uncounled rod		3.8	3.9	3.8	3.9
×4.02	Slowing the drive mechanism near the end of its travel		2.1*	2.1*	2.1	2.1
<b>C</b> K 1.05	following a SCRAM: Plant-Specific					
K4.04	The use of either accumulator or reactor water to SCRAM		3.6	3.7	3.6	3.7
V 4 05	the control rod		30	2 2	3.2	33
K4.05	Rod position indication		5.2 2.4	2.5	5.2 7 A	2.5
K4.00	Maintaining the control rod from the drive mechanism		3.7	3.2	3.2	3.2
K4.07 K4.08	Monitoring CRD mechanism temperature		2.6	2.7	2.6	2.7
K5	Knowledge of the operational implications of the	(41.5 / 45.3)				
	tollowing concepts as they apply to CONTROL ROD					
K5 01	AND DRIVE MECHANISM:		2.6	27	2.6	27
N3.01 N5.02	Hydraunes tElux chaping		2.0	33	2.0	3.3
K5.02	Flux shaping Beaster power control		33	3.4	33	3.4
NJ.UJ NS.04	tP ad sequence patterns		31	3.4	31	3.4
NJ.04 VS.05	t Nou sequence parterns Devorce nower effect		3.0	3.1	3.0	3.1
ND.UD NA 04	Neverse power effect		5.0 7 7	2.9	2.0	2.0
ND.00	and voids		2.1	4.7	<b>2</b> . 1	2.)
K5.07	How control rod movements affect core reactivity		3.3	3.6	3.3	3.6
K5.08	<sup>†</sup> How control rods affect shutdown margin		3.1	3.5	3.1	3.5

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	Facility: CPS		Printe	ed: 08/1	1/2006
	System Number: 201003				
	System Name: Control Rod and Drive Mechanism	NRC	Imp	Facili	tv F
	CFR	RO	SRO	RO	5.00
K6	Knowledge of the effect that a loss or malfunction of the (41.7 / 45.7) following will have on the CONTROL ROD AND DRIVE MECHANISM:				
K6.01	Control rod drive hydraulic system	3.3	3.3	3.3	3.3
K6.02	Reactor pressure	3.0	3.0	3.0	3.0
A1	Ability to predict and/or monitor changes in parameters (41.5 / 45.5) associated with operating the CONTROL ROD AND DRIVE MECHANISM controls including:				
A1.01	Reactor power	3.7	3.8	3.7	3.8
A1.02	CRD drive pressure	2.8	2.8	2.8	2.8
A1.03	CRD drive water flow	2.9	2.9	2.9	2.9
A2	Ability to (a) predict the impacts of the following on the (41.5 / 45.6) CONTROL ROD AND DRIVE MECHANISM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:				
A2 01	+Stuck rod	3.4	3.6	3.4	3.6
A2.02	Uncoupled rod	3.7	3.8	3.7	3.8
A2 03	†Drifting rod	3.4	3.7	3.4	^
A2.04	Single control rod SCRAM	3.5	3.6	3.5	-
A2.05	Reactor scram	4.1*	4.1	4.1	4.1
A2.06	Loss of CRD cooling water flow	3.0	3.1	3.0	3.1
A2.07	Loss of CRD drive water flow	3.1	3.2	3.1	3.2
A2.08	Low HCU accumulator pressure/high level	3.8	3.7	3.8	3.7
A2.09	Low reactor pressure	3.2	3.4	3.2	3.4
A2.10	†Excessive SCRAM time for a given drive mechanism	3.0	3.4	3.0	3.4
A3	Ability to monitor automatic operations of the (41.7 / 45.7) CONTROL ROD AND DRIVE MECHANISM including:				
A3.01	Control rod position	3.7	3.6	3.7	3.6
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:				
A4.01	CRD mechanism temperature	2.6*	2.6*	2.6	2.6
A4.02	CRD mechanism position: Plant-Specific	3.5	3.5	3.5	3.5

	Facility: CPS				Printe	ed: 08/1	1/2006	
	System Number: 201004							
	System Name: Rod Sequence Control System (Plant S	pecific)		NRC imp		Facili	Facility Imp	
_		,	CFR	RO	SRO	RO	SRO	
K1	Knowledge of the physical connections and/or cause- effect relationships between ROD SEQUENCE	(41.2 to 41.9 45.8)	/ 45.7 to					
K 1 01	CONTROL STSTEW and the following: Reactor manual control system: RWP-4-5			37	33	37	23	
K1.01	Turbing generator system: $\mathbf{B}W\mathbf{P}_{-1}$ 5			3.2	3.5	3.2	3.5	
K1.02	Prod position information system: BWP 1.5			3.1	3.1	3.1	3.1	
K1.04	Rod worth minimizer: BWR-4, 5			2.8	3.0	2.8	3.0	
K3	Knowledge of the effect that a loss or malfunction of the	(41.7 / 45.4)						
	ROD SEQUENCE CONTROL SYSTEM will have on following:							
K3.01	Reactor manual control: BWR-4, 5			3.3	3.4	3.3	3.4	
K4	Knowledge of ROD SEQUENCE CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	(41.7)						
K4.01	Select blocks: BWR-4, 5			3.0	3.1	3.0	3.1	
K4.02	Insert rod blocks: BWR-4, 5			3.1	3.2	3.1	3.2	
K4.03	Withdraw rod blocks: BWR-4, 5			3.3	3.4	3.3	3.4	
K4.04	RSCS bypass as reactor power increases: BWR-4, 5			3.3	3.3	3.3	3.3	
K4.05	Rod movement, direction, and selection information: BWR	-4,-5		3.2	3.2	3.2	3.2	
4.06کر	Group notch control: BWR-4, 5			3.3	3.4	3.3	3.4	
K4.07	Minimizing rod worth: BWR-4, 5			3.6	3.7	3.6	3.7	
К5	Knowledge of the operational implications of the following concepts as they apply to ROD SEQUENCE CONTROL SYSTEM:	(41.5 / 45.3)						
K5.01	Prevention of clad damage if a control rod drop accident (C occurs: BWR-4, 5	CRDA)		3.6	4.0	3.6	4.0	
K5.02	Sequences and groups: BWR-4, 5			3.1	3.3	3.1	3.3	
K5.03	Group notch control limits and rod density: BWR-4, 5			3.3	3.5	3.3	3.5	
K6	Knowledge of the effect that a loss or malfunction of the following will have on the ROD SEQUENCE CONTROL SYSTEM:	(41.7 / 45.7) L						
K6.01	Rod position information: BWR-4, 5			3.3	3.3	3.3	3.3	
K6.02	Rod direction information: BWR-4, 5			3.1	3.2	3.1	3.2	
K6.03	Rod movement information: BWR-4, 5			3.2	3.2	3.2	3.2	
K6.04	Turbine generator (1st stage shell pressure): BWR-4, 5			3.3	3.4	3.3	3.4	
A1	Ability to predict and/or monitor changes in parameters associated with operating the ROD SEQUENCE CONTROL SYSTEM controls includings	s, (41.5 / 45.5)						
A1.01	Reactor manual control system: BWR 4.5			3.3	3.3	3.3	3.3	
	- · · · · · · · · · · · · · · · · · · ·							

	Facility: CPS					d: 0 <b>8</b> /1	1/2006
	System Number: 201004						
	System Name: Rod Sequence Control System (Plant Spe	cific)		NRC	Imp	<u>Facili</u>	<u>ty 1</u>
			CFR	RO	SRO	RO	٤
A2	Ability to (a) predict the impacts of the following on the ROD SEQUENCE CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:	(41.5 / 45.6)					
A2.01	Loss of rod position information: BWR-4, 5			3.3	3.6	3.3	3.6
A2.02	Attempting to move a stuck control rod: BWR-4, 5			3.4	3.6	3.4	3.6
A2.03	Turbine trip: BWR-4, 5			3.2	3.2	3.2	3.2
A3	Ability to monitor automatic operations of the ROD SEQUENCE CONTROL SYSTEM including:	(41.7 / 45.7)					
A3.01	Rod select switch light: BWR-4,-5			3.2	3.1	3.2	3.1
A3.02	Rod select bottom lamp dimmer logic: BWR-4, 5			3.1*	3.1*	3.1	3.1
A3.03	Back panel indicators: BWR-4, 5			2.8	3.0	2.8	3.0
A3.04	Annunciator and alarm signals: BWR-4, 5			3.2	3.2	3.2	3.2
A3.05	<sup>†</sup> Verification of proper function/ operability: BWR-4, 5			3.5	3.7	3.5	3.7
A4	Ability to manually operate and/or monitor in the control room:	(41.7 / 45.5 to	o <b>45.8</b> )				
A4.01	+System bypass switches: BWR-4, 5			3.4	35	3.4	35
A4.02	RSCS console switches and indicators: BWR-4, 5			3.5	3.2	3.5	3 -
A4.03	<b>†RSCS back panel switches and indicators: BWR-4, 5</b>			3.0	3.1	3.0	3 /

	Facility: CPS			Printe	ed: 08/1	1/2006
	System Number: 201005					
	System Name: Rod Control and Information System	em (RCIS)	NRC Imp		Facility Imp	
		CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or cause effect relationships between ROD CONTROL AND INFORMATION SYSTEM (RCIS) and the followin	- (41.2 to 41.9 / 45.7 to 45.8) g:				
K1.01	Neutron monitoring system: BWR-6	-	3.3	3.3	3.3	3.3
K1.02	Reactor/turbine pressure control system: BWR-6		3.3	3.5	3.3	3.5
K1.03	Control rod drive system: BWR-6		3.7	3.7	3.7	3.7
K1.04	Rod position information system: BWR-6		3.7	3.7	3.7	3.7
K1.05	Rod action control system: BWR-6		3.5	3.5	3.5	3.5
K1.06	Rod gang drive system: BWR-6		3.3	3.3	3.3	3.3
K1.07	Rod interface system: BWR-6		3.3	3.3	3.3	3.3
<b>K2</b> K2.01	<b>Knowledge of electrical power supplies to the follow</b> A.C. electrical power: BWR-6	ing: (41.7)	2.4	2.6	2.4	2.6
КЗ	Knowledge of the effect that a loss or malfunction of ROD CONTROL AND INFORMATION SYSTEM (RCIS) will have on following:	`the (41.7 / 45.4)				
K3.01	Control rod drive system: BWR-6		3.3	3.7	3.3	37
K3.02	Reactor startun: BWR-6		3.5	3.5	3.5	3.5
K3.03	Reactor shutdown: BWR-6		3.0	3.2	3.0	3.2
K3.04	†Flux shaping: BWR-6		3.0	3.3	3.0	3.3
K4	Knowledge of ROD CONTROL AND INFORMATI SYSTEM (RCIS) design feature(s) and/or interlocks which provide for the following:	ON (41.7)				
K4.01	Limiting the effects of a control Rod accident: BWR-	6	3.2	3.2	3.2	3.2
K4.02	Bank position withdrawal sequence (BPWS): BWR-6	)	3.3	3.3	3.3	3.3
K4.03	Rod withdrawal block signals: BWR-6		3.5	3.5	3.5	3.5
K4.04	Rod insertion block signals: BWR-6		3.5	3.5	3.5	3.5
K4.05	Rod withdrawal limiter: BWR-6		3.5	3.5	3.5	3.5
K4.06	Rod pattern controller rod blocks: BWR-6		3.5	3.5	3.5	3.5

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Facility:	CPS	

System Number:	201005
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	<u>System Name:</u>	Rod Control and Information System (F	RCIS)		NRC	Imp	Facili	ity l
				CFR	RO	SRO	RO	5
K5	Knowledge of following con AND INFORI	the operational implications of the cepts as they apply to ROD CONTROL MATION SYSTEM (RCIS):	(41.5 / 45.3)					
K5.01	+Rod pattern	and program development: BWR-6			2.3	3.2	2.3	3.2
K5.02	Rod pattern o	controller (RPC): BWR-6			2.8	3.3	2.8	3.3
K5.03	Rod groups:	BWR-6			2.3	2.7	2.3	2.7
K5.04	†Rod sequen	ces: BWR-6			2.7	3.0	2.7	3.0
K5.05	Rod density:	BWR-6			2.7	3.0	2.7	3.0
K5.06	Target rod pa	attern: BWR-6			2.8	2.8	2.8	2.8
K5.07	Low power a	larm point: BWR-6			3.5	3.5	3.5	3.5
K5.08	Transition zo	me: BWR-6			3.2	3.5	3.2	3.5
K5.09	High power s	setpoints BWR-6			3.5	3.0	3.5	3.0
K5.10	Rod withdray	wal limiter: BWR-6			3.2	3.3	3.2	3.3
K5.11	Control rod r	notion: BWR-6			3.3	3.3	3.3	3.3
K5.12	Command w follow, scan	ord generation and sequencing (operator and test): BWR-6			1.8*	2.2*	1.8	2.2
K5.13	Position indi	cation probes: BWR-6			2.5	2.7	2.5	2.7
K6	Knowledge of following will INFORMATI	the effect that a loss or malfunction of the have on the ROD CONTROL AND ON SYSTEM (RCIS):	(41.7 / 45.7)					
K6.01	First stage sh BWR-6	ell pressure or opening of a bypass valve(s):			3.2	3.2	3.2	
K6.02	Rod position	signal: BWR-6			3.2	3.3	3.2	3.3
K6.03	A.C. electric	al power: BWR-6			2.5	2.8	2.5	2.8
K6.04	IRM channel	: BWR-6			3.0	3.2	3.0	3.2
K6.05	SRM channe	1: BWR-6			3.0	3.2	3.0	3.2
K6.06	APRM chan	nel: BWR-6			3.0	3.0	3.0	3.0
Al	Ability to pred associated wit	dict and/or monitor changes in parameters h operating the ROD CONTROL AND ON SYSTEM (BCIS) controls including:	(41.5 / 45.5)					
A1.01	First stage sh	ell pressure/turbine load: BWR-6			3.2	3.3	3.2	3.3

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	Facility: CPS				Printe	d: 08/1	1/2006
	System Number: 201005						
	System Name: Rod Contro	ol and Information System (R	CIS)	NRC	Imp	Facili	ty Imp
		•	CFR	RO	SRO	RO	SRO
A2	Ability to (a) predict the imp ROD CONTROL AND INF	acts of the following on the ORMATION SYSTEM	(41.5 / 45.6)				
	(RCIS); and (b) based on the	ose predictions, use					
	procedures to correct, contro	ol, or mitigate the					
	consequences of those abnor	mal conditions or operations:					
A2.01	High flux (SRM, IRM, APR	M): BWR-6		3.5	3.5	3.5	3.5
A2.02	Position indication probe fai	lure: BWR-6		2.8	3.2	2.8	3.2
A2.03	Insert block: BWR-6			3.2	3.2	3.2	3.2
A2.04	Withdraw block: BWR-6			3.2	3.2	3.2	3.2
A2.05	Insert required: BWR-6			3.2	3.2	3.2	3.2
A2.06	Insert inhibit: BWR-6			3.2	3.2	3.2	3.2
A2.07	Withdraw inhibit: BWR-6			3.2	3.2	3.2	3.2
A2.08	LPRM upscale/down scale: ]	BWR-6		3.2	3.2	3.2	3.2
A2.09	Test display blinking: BWR-	-6		2.8	3.0	2.8	3.0
A2.10	Data fault: BWR-6			2.8	3.0	2.8	3.0
A2.11	Accumulator fault: BWR-6			3.3	3.5	3.3	3.5
A2.12	Rod uncoupled: BWR-6			3.7	3.8	3.7	3.8
A2.13	Rod drift: BWR-6			3.8	3.8	3.8	3.8
A3	Ability to monitor automatic CONTROL AND INFORM	c operations of the ROD ATION System (RCIS)	(41.7 / 45.7)				
	including:			2.5	3.5	2.6	2.6
- A3.01	Operator control module light	hts: BWR-6		3.5	3.5	3.5	3.5
A3.02	Rod display module lights: I	3WR-6		3.5	3.5	3.5	3.5
A3.03	+Verification of proper func	tioning/ operability: BWR-6		3.4	3.3	3.4	3.3
A3.04	Annunciator and alarm signa	als: BWR-6		3.3	3.5	3.3	3.3
A4	Ability to manually operate room:	and/or monitor in the control	(41.7 / 45.5 to 45.8)				
A4.01	Operator control module (lig	hts and push buttons): BWR-6		3.7	3.7	3.7	3.7
A4.02	Rod display module (lights a	and push buttons): BWR-6		3.7	3.7	3.7	3.7
A4.03	Back panel indicating lights.	: BWR-6		3.4	3.3	3.4	3.3

	Facility: CPS			Printed: 08/11/2006				
	System Number:	201006						
	System Name:	Rod Worth Minimizer System (RWM) (F	Plant	NRC	Imp	<u>Facili</u>	ty Imp	
-		Specific)	CFR	RO	SRO	RO	SRO	
K1	Knowledge of ( effect relations SYSTEM (RW	the physical connections and/or cause- hips between ROD WORTH MINIMIZER (M) and the following:	(41.2 to 41.9 / 45.7 to 45.8)					
K1.01	Reactor manua	l control: P-Spec(Not-BWR6)		3.4	3.4	3.4	3.4	
K1.02	Rod nosition in	dication system: P. Snec(Not-RWR6)		3.4	34	34	3.4	
K1.02	Reactor water	level control (feed flow): P-Snec(Not BWR6)		3.1	3.2	3.1	3.2	
K1.03	Steam flow/rea	actor nower: P.Snec(Not-RWR6)		31	3.2	31	3.2	
K1.01	Control rod dre	on accident: P-Spec(Not BWR6)		3.5	3.8	3.5	3.8	
K1.05	Rod sequence	control system: P. Spec(Not-RWR6)		33	3.4	3.3	3.4	
K1.07	Process commu	ter: P Spec(Not-BWR6)		2.8	2.9	2.8	2.9	
K1.08	Reactor power	(turbine first stage pressure): P-Spec(Not-BW	<del>R6)</del>	3.2	3.3	3.2	3.3	
<b>K2</b> K2.01	Knowledge of ( <del>Rod worth min</del>	electrical power supplies to the following: himizer: P-Spec(Not BWR6)	(41.7)	2.2*	2.5*	2.2	2.5	
<b>K3</b> 01	Knowledge of ( ROD WORTH on following: Reactor manua	the effect that a loss or malfunction of the MINIMIZER SYSTEM (RWM) will have	(41.7 / 45.4)	3.2	3.5	3.2	3.5	
N9.01	Reactor marka			512	010	5.2	010	
, K4	Knowledge of l (RWM) design for the followin	ROD WORTH MINIMIZER SYSTEM feature(s) and/or interlocks which provide lg:	(41.7)					
K4.01	Insert blocks/er	rrors: P-Spec(Not-BWR6)		3.4	3.5	3.4	3.5	
K4.02	Withdraw bloc	ks/errors: P-Spec(Not-BWR6)		3.5	3.5	3.5	3.5	
K4.03	Select blocks/e	errors: P Spec(Not-BWR6)		3.3	3.4	3.3	3.4	
K4.04	System bypass	: P-Spec(Not-BWR6)		3.4	3.5	3.4	3.5	
K4.05	Substitute rod	position data: P-Spec(Not BWR6)		2.8	3.0	2.8	3.0	
K4.06	Correction of e	out of sequence rod positions: P-Spec(Not BW	' <del>R6</del> )	3.2	3.4	3.2	3.4	
K4.07	Display of out	of position control rods without rod blocks		3.1	3.2	3.1	3.2	
	(transition zone	e): P Spec(Not-BWR6)						
K4.08	System testing	: P-Spec(Not-BWR6)		2.8	2.8	2.8	2.8	
K4.09	System initializ	zation: P-Spec(Not-BWR6)		3.2	3.2	3.2	3.2	

	Facility: CP	8			Printe	ed: 08/1	1/2006
	System Number:	201006					
	System Name:	Rod Worth Minimizer System (RWM) (1	Plant	NRC	Imp	Facili	tv lz
	<u></u>	Specific)	CFR	RO	SRO	RO	<u>s.</u> 5.
К5	Knowledge of following conc MINIMIZER	the operational implications of the epts as they apply to ROD WORTH SYSTEM (RWM):	(41.5 / 45.3)				
K5.01	Minimize-clad occurs: P-Spec	<pre>damage if a control rod drop accident (CRDA %(Not-BWR6)</pre>	<del>)</del>	3.3	3.7	3.3	3.7
K5.02	Low power se	t-point: P-Spec(Not-BWR6)		2.9	3.0	2.9	3.0
K5.03	Low power als	arm point (LPAP): P-Spec(Not BWR6)		2.8	2.9	2.8	2.9
K5.04	Transition zon	e: P-Spec(Not-BWR6)		2.8	2.8	2.8	2.8
K5.05	High power se	t point: P-Spec(Not-BWR6)		2.9	3.0	2.9	3.0
K5.06	Rod groups an	d steps: P-Spec(Not-BWR6)		2.8	3.0	2.8	3.0
K5.07	Latch groups:	P-Spec(Not BWR6)		2.8	2.9	2.8	2.9
K5.08	Operating seq	uence: P-Spec(Not-BWR6)		2.9	2.9	2.9	2.9
K5.09	Select error: P	-Spec(Not-BWR6)		3.2	3.2	3.2	3.2
K5.10	Withdraw erro	r: P Spec(Not-BWR6)		3.2	3.3	3.2	3.3
K5.11	Insert error: P.	Spec(Not-BWR6)		3.2	3.3	3.2	3.3
K5.12	Withdraw bloc	:k: P-Spec(Not BWR6)		3.5	3.5	3.5	3.5
K5.13	Insert block: P	Spec(Not-BWR6)		3.5	3.5	3.5	3.5
K5.14	Alternate with	draw and insert limits: P-Spec(Not-BWR6)		3.0	3.0	3.0	3.0
K6	Knowledge of following will SYSTEM (RV	the effect that a loss or malfunction of the have on the ROD WORTH MINIMIZER	(41.7 / 45.7)				1
K6.01	RWM power s	supply: P Spec(Not-BWR6)		2.8	3.2	2.8	· 3
K6.02	Reactor water	level control input: P-Spec(Not-BWR6)		2.9	2.9	2.9	2.9
K6.03	Rod-position i	ndication: P-Spec(Not-BWR6)		2.9	2.9	2.9	2.9
K6.04	Process comp	iter: P-Spec(Not-BWR6)		2.7	2.8	2.7	2.8
K6.05	Steam flow in	put: P-Spec(Not-BWR6)		2.7	2.7	2.7	2.7
A1	Ability to prec associated with MINIMIZER	lict and/or monitor changes in parameters h operating the ROD WORTH SYSTEM (RWM) controls including:	(41.5 / 45.5)				
A1.01	Rod position-	P Snec(Not-BWR6)		3.2	3.3	3.2	3.3
A1.02	Status of contr	ol rod movement-blocks: P-Snec(Not-BWR6)		3.4	3.5	3.4	3.5
A1.03	Latched-groun	indication: P-Spec(Not-BWR6)		2.9	3.0	2.9	3.0

A4.06

Selected rod position indication: P Spec(Not BWR6)

	Facility: CPS	3			Printe	:d: 08/1	1/2006
	System Number:	201006					
	System Name:	Rod Worth Minimizer System (RWM) (P	lant	<u>NRC</u>	lmp	<u>Facili</u>	ty Imp
o <sup>1</sup>		Specific)	CFR	RO	SRO	RO	SRO
A2	Ability to (a) p ROD WORTH based on those control, or mit	redict the impacts of the following on the MINIMIZER SYSTEM (RWM); and (b) predictions, use procedures to correct, igate the consequences of those abnormal	(41.5 / 45.6)				
	conditions or o	perations:					
A2.01	Power supply I	oss: P-Spec(Not-BWR6)		2.5	2.8	2.5	2.8
A2.02	Loss of steam	flow input: P-Spec(Not-BWR6)		2.6	2.9	2.6	2.9
A2.03	<del>Rod drift: P-S</del> f	<del>ec(Not-BWR6)</del>		3.0	3.2	3.0	3.2
A2.04	Stuck rod: P-S	<del>pec(Not-BWR6)</del>		3.0	3.3	3.0	3.3
A2.05	Out of sequence	erod movement; P-Spec(Not-BWR6)		3.1	3.5	3.1	3.5
A2.06	Loss of reactor	-water level control input: P-Spec(Not-BWR6)	)	2.9	3.3	2.9	3.3
A2.07	RWM-hardwar	<del>re/software failure: P-Spec(Not-BWR6)</del>		2.5	2.8	2.5	2.8
A3	Ability to moni WORTH MIN	itor automatic operations of the ROD	(41.7 / 45.7)				
A3 01	Svetem window	wand light indication. P.Spec(Not-RWR6)		32	31	32	3 1
A3 02	Verification of	proper functioning/operability		3.5	3.4	3.5	3.4
110.02	P-Snec(Not-R)	WRA		5.5	5.1	5.0	5.1
A3 03	Annunciator a	ad alarm signals: P-Spec(Not-BWR6)		31	3.0	3 1	3.0
A3.04	Control rod me	wement blocks: P Spec(Not BWR6)		3.5	3.4	3.5	3.4
A3.05	Latched group	indication: P-Spec(Not-BWR6)		3.0	3.1	3.0	3.1
A4	Ability to man room:	ually operate and/or monitor in the control	(41.7 / 45.5 to 45.8)				
A4.01	System bypass	switch: P-Spec(Not-BWR6)		3.2	3.4	3.2	3.4
A4.02	Pushbutton ind	licating switches: P-Spec(Not-BWR6)		2.9	2.9	2.9	2.9
A4.03	Latched group	indication: P-Spec(Not-BWR6)		3.0	3.0	3.0	3.0
A4.04	Rod withdrawe	al error indication: P-Spec(Not-BWR6)		3.3	3.2	3.3	3.2
A4.05	Rod insert erro	r indication: P-Spec(Not-BWR6)		3.2	3.2	3.2	3.2

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Facility: CPS

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System Number: 202001

	System Name: Recirculation System	ion System			Facility Imp	
-		CFR	RO	SRO	RO	SRO
<b>K</b> 1	Knowledge of the physical connections and/or cause- effect relationships between RECIRCULATION SYSTEM and the following:	(41.2 to 41.9 / 45.7 to 45.8)				
K1 01	Core flow		3.6	3.7	3.6	3.7
K1.07	Reactor power		4.1	4.1	4.1	4.1
K1.02	Reactor moderator temperature		3.2	3.3	3.2	3.3
K1.05	Reactor/turbine pressure regulating system: Plant-Specific		3.3	3.3	3.3	3.3
K1.01	Reactor pressure		3.4	3.4	3.4	3.4
K1.05	let numps		3.6	3.6	3.6	3.6
K1.00	Component cooling water systems		3.1	3.2	3.1	3.2
K1 08	A C. electrical		3.1	3.2	3.1	3.2
K1.00	D C. electrical		2.7	2.9	2.7	2.9
K1 10	Control rod drive system: Plant-Specific		2.8	2.8	2.8	2.8
K1 11	Drywell equipment drain sump		2.7	2.8	2.7	2.8
K1.12	Recirculation system motor-generator sets: Plant-Specific		3.6	3.6	3.6	3.6
K1 13	let nump ring header and risers: Plant-Specific		3.1	3.2	3.1	3.2
K1 14	Rod block monitor: Plant-Specific		3.0	3.2	3.0	3.2
K1.15	Nuclear boiler instrumentation (reactor water level/pressure)		3.2	3.2	3.2	3.2
K1.16	Low pressure coolant injection logic: Plant-Specific		3.9	3.9	3.9	3.9
K1.17	Vessel bottom head drain temperature		3.1	3.3	3.1	3.3
K1.18	RHR shutdown cooling mode		3.3	3,3	3.3	3.3
31.19	Feedwater flow		3.2	3.2	3.2	3.2
K1.20	Plant air systems: Plant-Specific		2.4	2.5	2.4	2.5
K1.21	Reactor water cleanup system		2.6	2.6	2.6	2.6
K1.22	Reactor water level		3.5	3.6	3.5	3.6
K1.23	Average power range monitor flow converters: Plant-Specific		3.4	3.5	3.4	3.5
K1.24	Isolation condenser: Plant-Specific		3.4	3.4	3.4	3.4
K1.25	Reactor water sampling system		2.6	2.7	2.6	2.7
K1.26	Recirculation flow control system: Plant-Specific		3.6	3,6	3.6	3.6
K1.27	ATWS circuitry: Plant-Specific		4.1	4.3*	4.1	4.3
K1.28	End-of-cycle recirculation pump trip circuitry: Plant-Specific		3.9	4,1	3.9	4.1
К2	Knowledge of electrical power supplies to the following:	(41.7)				
K2.01	Recirculation pumps: Plant-Specific		3.2*	3.2	3.2	3.2
K2.02	MG sets: Plant-Specific		3.2	3.3	3.2	3.3
K2.03	Recirculation system valves		2.7*	2.8*	2.7	2.8
K2.04	Hydraulic power unit oil pumps: Plant-Specific		2.5*	2.5*	2.5	2.5
K2.05	MG-set-oil pumps: Plant Specific		2.3*	2.3*	2.3	2.3

Facility: CPS			Printed: 08/11/20					
	System Number: 202001							
	System Name: Recirculation System	NRC	Imp	Facility I	Į			
	C	CFR RO	SRO	RO	<b>د</b> ی.			
К3	Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4) RECIRCULATION SYSTEM will have on following:							
K3.01	Core flow	3.6	3.6	3.6	3.6			
K3.02	Load following capabilities: Plant-Specific	2.8	2.8	2.8	2.8			
K3.03	Reactor power	3.9	3.9	3.9	3.9			
K3.04	Reactor water level	3.7	3.7	3.7	3.7			
K3.05	Recirculation system MG sets: Plant-Specific	3.3	3.3	3.3	3.3			
K3.06	Low pressure coolant injection logic: Plant-Specific	3.7	3.9	3.7	3.9			
K3.07	Vessel bottom head drain temperature	2.9	2.9	2.9	2.9			
K3.08	Shutdown cooling system	2.8	2.9	2.8	2.9			
K3.09	Reactor water cleanup system	2.4*	2.5*	2.4	2.5			
K3.10	Average power range monitor flow converters	3.3	3.4	3.3	3.4			
K3.11	Component cooling water systems	2.3*	2.3*	2.3	2.3			
K3.12	Isolation condenser: Plant-Specific	3.0	3.0	3.0	3.0			
K3.13	Reactor water sampling system	2.5	2.5	2.5	2.5			
K3.14	Primary containment integrity: Plant-Specific	3.5	3.5	3.5	3.5			
К4	Knowledge of RECIRCULATION System design (41.7) feature(s) and/or interlocks which provide for the following:							
K4 01	2/3 core coverage: Plant-Specific	3.9	3.9	3.9	3.9			
K4.01	Adequate recirculation numn NPSH	3.1	3.2	3.1				
K4.02	Recirculation pump motor cooling	2.8	2.8	2.8	2.0			
K4.05	Controlled seal flow	3.0	3.1	3.0	3.1			
K4 05	Seal cooling	2.9	2.9	2.9	2.9			
K4 06	Automatic voltage/frequency regulation: Plant-Specific	2.6*	2.7	2.6	2.7			
K4.07	Motor generator set trips: Plant-Specific	2.8	2.9	2.8	2.9			
K4.07	Oil numn-automatic starts: Plant Specific	2.8	2.9	2.8	2.9			
K4.00	Pump minimum flow limit: Plant-Specific	2.7	2.9	2.7	2.9			
K4 10	Pump start nermissives: Plant-Specific	3.3	3.4	3.3	3.4			
K4.11	Limitation of recirculation pumps flow mismatch: Plant-Specific	3.1	3.5	3.1	3.5			
K4.12	Minimization of reactor vessel bottom head temperature gradients: Plant-Specific	3.2	3.5	3.2	3.5			
K4.13	†End-of-cycle recirculation pump trip circuitry: Plant-Specific	3.7	4.0*	3.7	4.0			
K4 14	ATWS: Plant-Specific	4.0	4.1*	4.0	4.1			
K4 15	Slow speed nump start: Plant-Specific	3.1	3.4	3.1	3.4			
K4 16	Recirculation nump downshift/runback: Plant-Specific	3.3	3.6	3.3	3.6			
K4 17	East speed nump start: Plant-Specific	3.3	3.5	3.3	3.5			
K4 18	Automatic MG set start sequencing: Plant-Specific	2.8	3.0	2.8	3.0			

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Facility:

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	<u>System Number:</u>	202001						
	System Name:	<b>Recirculation System</b>			NRC	lmp	Facili	ty Imp
·				CFR	RO	SRO	RO	SRO
К5	Knowledge of f following conce SYSTEM:	the operational implications of the epts as they apply to RECIRCULATION	(41.5 / 45.3)					
K5.01	Indications of	pump cavitation			2.7	2.8	2.7	2.8
K5.02	Jet pump oper	ration: BWR-3, 4, 5, 6			3.1	3.2	3.1	3.2
K5.03	Pump/motor c	cooling: Plant-Specific			2.7	2.7	2.7	2.7
K5.04	System ventin	ig			2.4	2.6	2.4	2.6
K5.05	End of cycle r	ecirculation pump trip: Plant-Specific			3.5	3.6	3.5	3.6
K5.06	ATWS RPT: 1	Plant-Specific			3.6	3.7	3.6	3.7
K5.07	Natural circul	ation			3.3	3.4	3.3	3.4
K5.08	E/P converter	s: Plant-Specific			2.0*	2.1*	2.0	2.1
K5.09	Hydraulically	operated valves: Plant-Specific			2.6*	2.6*	2.6	2.6
K5.10	Motor general	tor set operation: Plant-Specific			2.8*	2.8*	2.8	2.8
K6	Knowledge of t following will l	the effect that a loss or malfunction of th have on the RECIRCULATION SYSTE	e (41.7 / 45.7) M:					
K6.01	Jet pumps: Pla	ant-Specific			3.5	3.7	3.5	3.7
K6.02	Component co	ooling water systems			3.1	3.2	3.1	3.2
K6.03	A.C. power: F	Plant-Specific			2.9	3.0	2.9	3.0
K6.04	D.C. power: F	Plant-Specific			2.7	2.8	2.7	2.8
K6.05	Control rod di	rive system: Plant-Specific			2.7	2.8	2.7	2.8
36.06	Recirculation	system motor-generator sets: Plant-Specifi	с		3.1	3.1	3.1	3.1
<b>K</b> 6.07	Feedwater flo	w			3.3	3.3	3.3	3.3
K6.08	Reactor water	cleanup system			2.3	2.3	2.3	2.3
K6.09	Reactor water	level			3.4	3.4	3.4	3.4

Facility: CPS			Printed: 08/11/2006				
	System Number: 202001						
	System Name: Recirculation System			NRC Imp		Facility 1r	
			CFR	RO	SRO	RO	5
A1	Ability to predict and/or monitor changes in parameters associated with operating the RECIRCULATION	(41.5 / 45.5)					
	SYSTEM controls including:			2.4		2.4	
A1.01	Recirculation pump flow: Plant-Specific			3.6	3.5	3.6	3.5
A1.02	Jet pump flow			3.4	3.4	3.4	3.4
A1.03	Core flow			3.6	3.6	3.6	3.6
A1.04	Reactor water level			3.3	3.3	3.3	3.3
A1.05	Reactor power			3.9	3.9	3.9	3.9
A1.06	Recirculation pump motor amps			2.5	2.6	2.5	2.6
A1.07	Recirculation pump speed			2.7	2.8	2.7	2.8
A1.08	Recirculation FCV position: BWR-5, 6			3.7	3.7	3.7	3.7
A1.09	Recirculation pump seal pressures			3.3	3.3	3.3	3.3
A1.10	Recirculation seal purge flows			2.6	2.7	2.6	2.7
A1.11	Vessel bottom head drain temperature			2.8	2.9	2.8	2.9
A1.12	Recirculation pump differential pressure: Plant-Specific			2.6	2.6	2.6	2.6
A1.13	Recirculation loop temperatures: Plant-Specific			3.1	3.2	3.1	3.2
A1.14	Recirculation drive motor temperature: Plant-Specific			2.4	2.4	2.4	2.4
A1.15	Recirculation MG set temperatures: Plant-Specific			2.4	2.4	2.4	2.4
A1.16	Recirculation MG drive motor amps: Plant-Specific			2.3*	2.3	2.3	2.3
A1.17	Recirculation MG set generator current, power, voltage: Plant-Specific			2.3*	2.3	2.3	2.3

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	Facility: CPS		Printed: 08/11/200				
	System Number: 202001						
	System Name: Recirculation System		NRC	Imp	Facili	ty Imp	
		CFR	RO	SRO	RO	SRO	
A2	Ability to (a) predict the impacts of the following on the	(41.5 / 45.6)					
	RECIRCULATION SYSTEM; and (b) based on those						
	predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or						
	operations:						
A2 01	t let nump failure: Plant-Specific		34	39	34	3.9	
A2 02	Recirculation system leak		37	3.9	37	3.9	
A2 03	Single recirculation nump trip		3.6	37	3.6	3.7	
A2 04	Multiple recirculation pump trip		37	3.8	37	3.8	
A2 05	Inadvertent recirculation flow increase		3.8	4.0	3.8	4.0	
A2.06	Inadvertent recirculation flow decrease		3.6	3.8	3.6	3.8	
A2.07	Recirculation pump speed mismatch: Plant-Specific		3.1	3.3	3.1	3.3	
A2.08	Recirculation flow mismatch: Plant-Specific		3.1	3.4	3.1	3.4	
A2.09	Recirculation scoon tube lockup: Plant-Specific		3.2	3.4	3.2	3.4	
A2.10	*Recirculation pump seal failure		3.5	3.9	3.5	3.9	
A2.11	Low reactor water level		3.7	3.9	3.7	3.9	
A2.12	Loss of reactor feedwater		3.6	3.8	3.6	3.8	
A2.13	Carryunder		2.6	2.8	2.6	2.8	
A2.14	High reactor pressure (ATWS circuitry initiation): Plant-Specific		3.9	4.2*	3.9	4.2	
A2.15	End of cycle trip circuitry: Plant-Specific		3.7	3.9	3.7	3.9	
A2.16	Loss of seal purge flow (CRD)		2.9	3.1	2.9	3.1	
<b>A</b> 2.17	Loss of seal cooling water		3.1	3.2	3.1	3.2	
-A2.18	Loss of motor cooling		2.9	3.1	2.9	3.1	
A2.19	Loss of A.C. power: Plant-Specific		3.1	3.2	3.1	3.2	
A2.20	Loss of D.C. power: Plant-Specific		2.8	2.9	2.8	2.9	
A2.21	†Recirculation loop temperature out of spec: Plant-Specific		3.3	3.7	3.3	3.7	
A2.22	Loss of component cooling water		3.1	3.2	3.1	3.2	
A2.23	Suppression pool level: BWR-2, 3, 4		3.2	3.2	3.2	3.2	
A2.24	Valve opening		3.1	3.1	3.1	3.1	
A2.25	Recirculation flow control valve lockup: Plant-Specific		3.3	3.3	3.3	3.3	
A2.26	Incomplete start sequence: Plant-Specific		2.9	3.1	2.9	3.1	
A3	Ability to monitor automatic operations of the RECIRCULATION SYSTEM including:	(41.7 / 45.7)					
A3.01	Valve operation		3.1	3.1	3.1	3.1	
A3.02	Pump/MG set start sequence: Plant-Specific		3.1	3.0	3.1	3.0	
A3.03	System flow		3.2	3.2	3.2	3.2	
A3.04	Lights and alarms		3.2	3.1	3.2	3.1	
A3.05	Pump speed: Plant-Specific		2.9	2.9	2.9	2.9	
A3.06	Flow control valve position: BWR-5, 6		3.6	3.6	3.6	3.6	
A3.07	Pump trips: Plant-Specific		3.3	3.3	3.3	3.3	
A3.08	Pump downshift: BWR-5, 6		3.4	3.3	3.4	3.3	
A3.09	MG set trip: Plant-Specific		3.3	3.3	3.3	3.3	
	Facility: CPS		Printe	:d: 08/1	1/2006		
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	System Number: 202001						
	System Name: Recirculation System	NRC	lmp	<u>Facili</u>	t <u>y l</u> r		
	CFR	RO	SRO	RO	Ł		
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)						
	room:						
A4.01	Recirculation pumps	3.7	3.7	3.7	3.7		
A4.02	System valves	3.5	3.4	3.5	3.4		
A4.03	Reactor power	4.1	4.1	4.1	4.1		
A4.04	System flow	3.7	3.7	3.7	3.7		
A4.05	Lights and alarms	3.3	3.3	3.3	3.3		
A4.06	Oil pumps	2.7	2.7	2.7	2.7		
A4.07	Vent fans: Plant-Specific	2.4	2.3	2.4	2.3		
A4.08	Motor-generator sets: Plant-Specific	3.2	3.1	3.2	3.1		
A4.09	Reactor water level	3.7	3.7	3.7	3.7		
A4.10	Seal flow: Plant-Specific	2.8	2.8	2.8	2.8		
A4.11	Seal pressures: Plant-Specific	3.2	3.3	3.2	3.3		
A4.12	Core flow	3.9	3.8	3.9	3.8		
A4.13	Core differential pressure	3.1	3.3	3.1	3.3		

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	Facility: CPS			Printe	ed: 08/1	1/2006
	System Number: 202002					
	System Name: Recirculation Flow Control System		<u>NRC</u>	lmp	<u>Facili</u>	ty Imp
Sheet -		CFR	RO	SRO	RO	SRO
KI	Knowledge of the physical connections and/or cause- effect relationships between RECIRCULATION FLOW CONTROL SYSTEM and the following:	(41.2 to 41.9 / 45.7 to 45.8)				
K1.01	Recirculation system		3.5	3.6	3.5	3.6
K1.02	Reactor power		4.2*	4.2	4.2	4.2
K1.03	Reactor core flow		3.7	3.7	3.7	3.7
K1.04	Reactor/turbine pressure regulating system: Plant-Specific		3.1	3.1	3.1	3.1
K1.05	Recirculation MG set: Plant-Specific		3.5	3.5	3.5	3.5
K1.06	A.C. electrical		2.9	3.0	2.9	3.0
K1.07	D.C. electrical		2.6	2.8	2.6	2.8
K1 08	Feedwater flow		3.1	3.2	3.1	3.2
K1.00	Reactor water level		3.1	3.2	3.1	3.2
K1.02	Rod pattern		2.5	2.6	2.5	2.6
K1.10 K1.11	APRM system		3.4	34	34	34
K1.12	Recirculation flow control valves: Plant-Specific		3.7	3.9	3.7	3.9
К2	Knowledge of electrical power supplies to the following:	(41.7)				
K2.01	Recirculation flow control system		2.4*	2.4*	2.4	2.4
K2.02	Hydraulic power unit: Plant-Specific		2.6	2.6	2.6	2.6
√К3	Knowledge of the effect that a loss or malfunction of the RECIRCULATION FLOW CONTROL SYSTEM will	(41.7 / 45.4)				
<b>V A A 1</b>	have on following:		2.5	25	75	25
K3.01	Core flow		3.5	3.5	3.5	3.5
K3.02	Reactor power		4.0	4.0	4.0	4.0
K3.03	Reactor water level		3.3	3.4	3.3	3.4
K3.04	Reactor/turbine pressure regulation system		2.9	3.1	2.9	3.1
K3.05	Recirculation pump speed: Plant-Specific		3.2	3.3	3.2	3.3
K3.06	Recirculation flow control valve position: Plant-Specific		3.7	3.7	3.7	3.7
K4	Knowledge of RECIRCULATION FLOW CONTROL SYSTEM design feature(s) and/or interlocks which provide for the following:	(41.7)				
K4.01	Scoop tube break: Plant Specific		3.1	3.1	3.1	3.1
K4.02	Recirculation pump speed control: Plant-Specific		3.0	3.0	3.0	3.0
K4 03	Signal failure detection: Plant-Specific		3.0	3.0	3.0	3.0
K4.04	Automatic load following: Plant-Specific		2.4*	2.4*	2.4	2.4
K4.05	Limiting recirculation pump speed mismatch: Plant-Specific		3.1	3.4	3.1	3.4
K4.06	Recirculation pump adequate NPSH: Plant-Specific		3.1	3.1	3.1	3.1
K4.07	Minimum and maximum pump speed setpoints		2.9	2.9	2.9	2.9
K4.08	Automatic flow control valve positioning: BWR-5. 6		3.3	3.4	3.3	3.4
K4.09	Minimum and maximum flow control valve position		3.3	3.4	3.3	3.4
	setpoints: BWR-5, 6					

	Facility: CPS					Printe	ed: 08/1	1/2006
	<u>System Number:</u>	202002						
	System Name:	<b>Recirculation Flow Control System</b>			NRC	Imp	Facili	ty I
				CFR	RO	SRO	RO	۰.
К5	Knowledge of t following conce FLOW CONTI	he operational implications of the pts as they apply to RECIRCULATION ROL SYSTEM:	(41.5 / 45.3)					
K5.01	Fluid coupling:	<del>BWR-3,</del> 4			2.8	2.8	2.8	2.8
K5.02	Feedback sign	als			2.6	2.6	2.6	2.6
K5.03	Error signals				2.4	2.4	2.4	2.4
K6	Knowledge of t following will b CONTROL SY	he effect that a loss or malfunction of the ave on the RECIRCULATION FLOW STEM:	(41.7 / 45.7)					
K6.01	A.C. power				2.8	2.9	2.8	2.9
K6.02	D.C. power				2.6	2.6	2.6	2.6
K6.03	Recirculation	system			2.8	2.8	2.8	2.8
K6.04	Feedwater flor	w inputs: BWR-3, 4, 5,6			3.5	3.5	3.5	3.5
K6.05	Reactor water	level			3.1	3.1	3.1	3.1
K6.06	Reactor/turbin	e pressure regulating system: Plant-Specific			2.9	2.9	2.9	2.9
K6.07	APRM signal	input: BWR-5, 6			3.6	3.7	3.6	3.7
A1	Ability to pred associated with CONTROL SY	ct and/or monitor changes in parameters operating the RECIRCULATION FLOW STEM controls including:	(41.5 / 45.5)					
A1.01	Recirculation	pump speed: BWR-2, 3, 4, 5, 6			3.2	3.2	3.2	
A1.02	MG set drive	notor amps: Plant-Specific			2.7	2.7	2.7	2.7
A1.03	MG set genera	tor current, power, voltage			2.5*	2.4*	2.5	2.4
A1.04	Reactor water	level			2.9	2.9	2.9	2.9
A1.05	Reactor power				3.6	3.6	3.6	3.6
A1.06	Reactor core f	low			3.4	3.3	3.4	3.3
A1.07	Recirculation	loop flow: Plant-Specific			3.1	3.1	3.1	3.1
A1.08	Recirculation	FCV position: BWR-5, 6			3.4	3.4	3.4	3.4
A2	Ability to (a) p RECIRCULA (b) based on th	redict the impacts of the following on the FION FLOW CONTROL SYSTEM; and ose predictions, use procedures to correct	(41.5 / 45.6)					
	control, or mit	gate the consequences of those abnormal perations:						
A2.01	Recirculation	- pump trip			3.4	3.4	3.4	3.4
A2.02	Loss of A.C.				2.9	3.0	2.9	3.0
A2.03	Loss of D.C.				2.6	2.7	2.6	2.7
A2.04	Recirculation Plant-Specific	pump speed mismatch between loops:			3.0	3.2	3.0	3.2
A2.05	Scoop tube loc	kup: BWR-2, 3, 4			3.1	3.1	3.1	3.1
A2.06	Low reactor v	ater level: Plant-Specific			3.3	3.3	3.3	3.3
A2.07	Loss of feedw	ater signal inputs: Plant-Specific			3.3	3.3	3.3	3.3
A2.08	FCV lockup:	BWR-5, 6			3.3	3.3	3.3	3.3
A2.09	†Recirculation	n flow mismatch: Plant-Specific			3.1	3.3	3.1	

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	Facility: CPS			Printe	ed: 08/1	1/2006
	System Number: 202002					
	System Name: Recirculation Flow Control System		NRC	Imp	<u>Facili</u>	<u>ty Imp</u>
	<u></u>	CFR	RO	SRO	RO	SRO
A3	Ability to monitor automatic operations of the RECIRCULATION FLOW CONTROL SYSTEM including:	(41.7 / 45.7)				
A3 01	Flow control valve operation: BWR-5, 6		3.6	3.4	3.6	3.4
A3 02	Lights and alarms		3.4	3.4	3.4	3.4
A3.03	Scoop tube operation: BWR-2, 3, 4		3.1	3.0	3.1	3.0
A4	Ability to manually operate and/or monitor in the contr room:	ol (41.7 / 45.5 to 45.8)				
A4.01	MG sets		3.3	3.1	3.3	3.1
A4.02	Hydraulic power unit: BWR-5, 6		2.8	2.8	2.8	2.8
A4.03	Lights and alarms		3.1	3.1	3.1	3.1
A4.04	Reactor power		3.8	3.8	3.8	3.8
A4.05	Reactor level		3.4	3.4	3.4	3.4
A4.06	Scoop tube power: BWR-2, 3, 4		2.7	2.6	2.7	2.6
A4.07	Recirculation pump speed: BWR-2, 3, 4, 5, 6		3.3	3.2	3.3	3.2
A4.08	Recirculation system flow		3.3	3.3	3.3	3.3
A4.09	Core flow		3.2	3.3	3.2	3.3

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Facility:

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	System Number: 203000					
	System Name: RHR/LPCI: Injection Mode	(Plant Specific)	NRC	Imp	Facili	ty Imp
~		CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or effect relationships between RHR/LPC1: INJ	cause- (41.2 to 41.9 / 45.7 to ECTION 45.8)				
	MODE and the following:	- 1 <b>7</b>	• •	2.0	•	2.0
K1.01	Condensate storage and transfer system: Plant-	Specific	2.8	2.8	2.8	2.8
K1.02	Suppression pool		3.9	3.9	3.9	3.9
K1.03	Condensate transfer		2.5*	2.6*	2.5	2.6
K1.04	Keep fill system		3.3	3.4	3.3	3.4
K1.05	Recirculation system: BWR-3, 4		3.8	3.8	3.8	3.8
K1.06	Automatic depressurization		3.9	3.9	3.9	3.9
K1.07	D.C. electrical power		3.1	3.3	3.1	3.3
K1.08	A.C. electrical power		3.5	3.5	3.5	3.5
K1.09	Emergency generators		3.8	3.8	3.8	3.8
K1.10	ECCS room coolers		3.2	3.2	3.2	3.2
K1.11	Nuclear boiler instrumentation		3.7	3.7	3.7	3.7
K1.12	Plant air systems: Plant-Specific		2.6*	2.7*	2.6	2.7
K1.13	Drywell pressure		3.9	4.0	3.9	4.0
K1.14	Shutdown cooling system: Plant-Specific		3.6	3.7	3.6	3.7
K1.15	Reactor building drain system: Plant-Specific		2.4*	2.6*	2,4	2.6
K1.16	Component cooling water systems		3.1	3.2	3.1	3.2
K1.17	Reactor pressure		4.0	4.0	4.0	4.0
K1.18	Reactor vessel: Plant-Specific		3.8	3.8	3.8	3.8
<del>~</del> K2	Knowledge of electrical power supplies to the	following: (41.7)				
K2 01	Pumps	5 , ,	3.5*	3.5*	3.5	3.5
K2.02	Valves		2.5*	2.7*	2.5	2.7
K2.03	Initiation logic		2.7*	2.9*	2.7	2.9
К3	Knowledge of the effect that a loss or malfun RHR/LPCI: INJECTION MODE will have (	ction of the (41.7 / 45.4)				
K3.01	Reactor water level	e	4.3*	4.4*	4.3	4.4
K3.02	Suppression pool level		3.5	3.5	3.5	3.5
K3.03	Automatic depressurization logic		4.2*	4.3*	4.2	4.3
K3.04	Adequate core cooling		4.6*	4.6*	4.6	4.6

	Facility: CPS	3				Printe	d: 08/1	1/2006
	System Number:	203000						
	System Name:	RHR/LPCI: Injection Mode (Plant Spec	ific)		NRC	Imp	<u>Facili</u>	ty I
			(	FR	RO	SRO	RO	5. 2
K4	Knowledge of I feature(s) and/ following:	RHR/LPCI: INJECTION MODE design or interlocks which provide for the	(41.7)					
K4 01	Automatic sv	stem initiation/ injection			4.2*	4.2	4.2	4.2
K4.01	Prevention of	nining overpressurization			33	34	33	3.4
K4.02	Pump minimu	m flow protection			3.2	3.3	3.2	3.3
K4.03	Pump motor c	pooling: Plant-Specific			2.6	27	2.6	2.7
K4.05	Prevention of	water hammer			3.2	3.3	3.2	3.3
K4.05	Adequate pun valve open): F	np net positive suction head (interlock suction Plant-Specific			3.5	3.5	3.5	3.5
K4.07	Emergency ge	enerator load sequencing			3.7	3.9	3.7	3.9
K4.08	Pump operabi	lity testing			3.3	3.4*	3.3	3.4
K4.09	Surveillance f	for all operable components			3.1	3.4	3.1	3.4
K4.10	Dedicated injoint initiation (injoint)	ection system during automatic system ection valve interlocks)			3.9	4.1	3.9	4.1
K4.11	Loop selection	logic: Plant-Specific			4.0	4.0	4.0	4.0
K4.12	System redun	dancy			3.5	3.6	3.5	3.6
K4.13	The preventio	n of leakage to the environment through eat exchanger: Plant-Specific			3.4	3.7	3.4	3.7
K4.14	<sup>†</sup> Operation fr	om remote shutdown panel			3.6	3.7	3.6	3.7
K4.15	Pump runout	protection: Plant-Specific			2.5*	2.5	2.5	2.5
К5	Knowledge of following conc INJECTION N	the operational implications of the epts as they apply to RHR/LPCI: MODE:	(41.5 / 45.3)					
K5.01	Testable check	-valve operation			2.7*	2.9	2.7	2.9
K5.02	†Core cooling	g methods			3.5	3.7	3.5	3.7
K6	Knowledge of following will I MODE:	the effect that a loss or malfunction of the have on the RHR/LPCI: INJECTION	(41.7 / 45.7)					
K6.01	A.C. electrica	l power			3.6	3.7	3.6	3.7
K6.02	D.C. electrica	l power			2.8*	3.0*	2.8	3.0
K6.03	Emergency g	enerator			3.7	3.9	3.7	3.9
K6.04	Keep fill system	em			3.3	3.5	3.3	3.5
K6.05	Condensate st	torage and transfer system: Plant-Specific			2.5	2.5	2.5	2.5
K6.06	Suppression r	0001			3.8	3.9	3.8	3.9
K6.07	Plant air syste	ems: Plant-Specific			2.7	2.7	2.7	2.7
K6.08	ECCS room o	cooling			2.9	3.1	2.9	3.1
K6.09	Nuclear boile	r instrumentation			3.4	3.4	3.4	3.4
K6.10	Component c	ooling water systems			3.0	3.1	3.0	3.1
K6.11	ADS				4.1*	4.1	4.1	4.1
K6.12	†ECCS room	integrity			2.7	2.9	2.7	2.9

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	Facility: CPS			Printe	:d: 08/1	1/2006
	System Number: 203000					
	System Name: RHR/LPCI: Injection Mode (Plant Specific)		NRC	Imp	Facili	ty Imp
	· · · · /	CFR	RO	SRO	RO	SRO
A1	Ability to predict and/or monitor changes in parameters (41.5 / 45. associated with operating the RHR/LPC1: INJECTION MODE controls including:	5)				
A1.01	Reactor water level		4.2*	4.3*	4.2	4.3
A1.02	Reactor pressure		3.9*	4.0*	3.9	4.0
A1.03	System flow		3.8	3.7	3.8	3.7
A1.04	System pressure		3.6	3.6	3.6	3.6
A1.05	Suppression pool level		3.8	3.7	3.8	3.7
A1.06	Condensate storage tank level: Plant-Specific		2.4*	2.5*	2.4	2.5
A1.07	Motor amps: Plant-Specific		2.4*	2.5*	2.4	2.5
A1.08	Emergency generator loading		3.7	3.8	3.7	3.8
A1.09	Component cooling water systems		2.9	2.9	2.9	2.9
	predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:					
A2.01	Inadequate net positive suction head		3.2	3.4	3.2	3.4
A2.02	Pump trips		3.5	3.5	3.5	3.5
A2.03	Valve closures		3.2	3.3	3.2	3.3
\2.04	A.C. failures		3.5	3.6	3.5	3.6
<b>-</b> A2.05	D.C. failures		3.0	3.2	3.0	3.2
A2.06	Emergency generator failure		3.8	3.9	3.8	3.9
A2.07	Pump seal failure		3.0	3.1	3.0	3.1
A2.08	Inadequate room cooling		2.9	3.0	2.9	3.0
A2.09	Inadequate system flow		3.3	3.4	3.3	3.4
A2.10	Nuclear boiler instrument failures		3.3	3.5	3.3	3.5
A2.11	Motor operated valve failures		3.4	3.6	3.4	3.6
A2.12	Pump runout		2.6*	2.7*	2.6	2.7
A2.13	Valve openings		3.2	3.3	3.2	3.3
A2.14	Initiating logic failure		3.8	3.9*	3.8	3.9
A2.15	Loop selection logic failure: Plant Specific		4.2*	4.2*	4.2	4.2
A2.16	Loss of coolant accident		4.4*	4.5*	4.4	4.5
A2.17	Keep fill system failure		3.3	3.5	3.3	3.5

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# System Number: 203000

Facility: CPS

	System Name: RHR/LPC1: Injection Mode (Plant Spe	cific) CFR	<u>NRC</u> RO	<u>Imp</u> SRO	<u>Facili</u> RO	<u>ty 1</u> Succ
				5110		
A3	Ability to monitor automatic operations of the	(41.//45./)				
A3 01	Valve operation		3.8*	3.7	3.8	3.7
A3.02	Pump start		4.0	3.9	4.0	3.9
A3 03	Pump discharge pressure		3.7	3.6	3.7	3.6
A3.04	System flow		3.8	3.7	3.8	3.7
A3.05	Reactor water level		4.4*	4.4*	4.4	4.4
A3.06	Indicating lights and alarms		3.7*	3.6	3.7	3.6
A3.07	Loop selection: Plant-Specific		4.2*	4.6*	4.2	4.6
A3.08	System initiation sequence		4.1	4.1	4.1	4.1
A3.09	Emergency generator load sequencing		3.6	3.9*	3.6	3.9
A4	Ability to manually operate and/or monitor in the contro	ol (41.7 / 45.5 to 45.8)				

	room:				
A4.01	Pumps	4.3*	4.1*	4.3	4.1
A4.02	System valves	4.1*	4.1*	4.1	4.1
A4.03	Keep fill system	3.4	3.4	3.4	3.4
A4.04	Heat exchanger cooling flow	3.6	3.6	3.6	3.6
A4.05	Manual initiation controls	4.3*	4.1*	4.3	4.1
A4.06	System reset following automatic initiation: Plant-Specific	3.9	3.9	3.9	3.9
A4.07	Reactor water level	4.5*	4.5*	4.5	4.5
A4.08	Reactor pressure	4.3*	4.3	4.3	2
A4.09	System flow	4.1	4.0	4.1	4. <del>u</del>
A4,10	Pump/system discharge pressure: Plant-Specific	3.7	3.6	3.7	3.6
A4.11	Indicating lights and alarms	3.7*	3.5*	3.7	3.5
A4.12	Condensate storage tank level: Plant-Specific	2.5	2.6	2.5	2.6
A4.13	Suppression pool level/temperature	3.9	3.9	3.9	3.9
A4.14	Testable check valves	2.7*	2.7*	2.7	2.7

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Facility:

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	System Number: 204000					
	System Name: Reactor Water Cleanup System		NRC	lmp	Facili	ty Imp
$\smile$	<u></u>	CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or cause- effect relationships between REACTOR WATER CLEANUP SYSTEM and the following:	(41.2 to 41.9 / 45.7 to 45.8)				
K1.01	Reactor vessel		3.1	3.3	3.1	3.3
K1.02	Recirculation system: Plant-Specific		2.9	3.0	2.9	3.0
K1.03	Reactor feedwater system		3.1	3.1	3.1	3.1
K1.04	Component cooling water systems		2.9	2.9	2.9	2.9
K1.05	Plant air systems		2.7	2.7	2.7	2.7
K1.06	Main condenser		2.8	2.8	2.8	2.8
K1.07	Radwaste		2.6	2.7	2.6	2.7
K1.08	SBLC		3.7	3.8	3.7	3.8
K1.09	Reactor water level		3.2	3.3	3.2	3.3
K1.10	Reactor water quality		3.3	3.5	3.3	3.5
KT 11	PCIS/NSSSS		3.5	3.7	3.5	3.7
K1 12	Condensate storage and transfer system: Plant-Specifi	с	2.6	2.6	2.6	2.6
K1.13	RHR system: Plant-Specific	-	2.5	2.5	2.5	2.5
K1 14	Process sample system		2.5	2.5	2.5	2.5
K1.15	Leak detection: Plant-Specific		3.1	3.2	3.1	3.2
K1.16	CRD system: Plant-Specific		2.8	2.8	2.8	2.8
К2	Knowledge of electrical power supplies to the follow	ing: (41.7)				
\$2.01	Pumps		2.3*	2.4*	2.3	2.4
₩2.02	Valve motors		2.0*	2.1*	2.0	2.1
К3	Knowledge of the effect that a loss or malfunction of REACTOR WATER CLEANUP SYSTEM will have following:	<sup>2</sup> the (41.7 / 45.4) e on				
K3.01	Reactor water quality		3.2	3.6	3.2	3.6
K3.02	Reactor water level		3.1	3.1	3.1	3.1
K3.03	Component cooling water systems		2.4	2.4	2.4	2.4
K3.04	Reactor water temperature		2.6	2.6	2.6	2.6
K3.05	Area temperature		2.4*	2.4*	2.4	2.4
K3.06	Area radiation levels		2.6	2.7	2.6	2.7
K3.07	Drywell temperature		2.1*	2.2*	2.1	2.2
K3.08	Drywell pressure		2.2*	2.3*	2.2	2.3

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	Facility: CPS	S			Printe	d: 08/1	1/2006
	System Number:	204000					
	System Name	Reactor Water Cleanut System		NRC	Imn	Facili	tv b
	System Ivame:	Reactor water Cleanup System	CFR	RO	SRO	RO RO	<u>ty n</u> 5.
К4	Knowledge of	REACTOR WATER CLEANUP SYSTEM	(41.7)				
	design feature	(s) and/or interlocks which provide for the	<b>、</b> ,				
	following:						
K4.01	Pump protecti	ion		2.5	2.5	2.5	2.5
K4.02	Piping over-p	ressurization protection: Plant-Specific		2.7	2.9	2.7	2.9
K4.03	Over tempera	ture protection for system components		2.9	2.9	2.9	2.9
K4.04	System isolat:	ion upon-receipt of isolation signals		3.5	3.6	3.5	3.6
K4.05	Double valve	isolation from the reactor		3.0	3.1	3.0	3.1
K4.06	Maximize pla exchanger)	nt efficiency (use of regenerative heat		2.6	2.8	2.6	2.8
K4.07	Draining of re	eactor water to various locations		2.9	2.9	2.9	2.9
K4.08	Reducing reac LP-RWCU	tor pressure upstream of low pressure piping:-		3.3	3.4	3.3	3.4
К5	Knowledge of following conc CLEANUP SY	the operational implications of the epts as they apply to REACTOR WATER /STEM:	(41.5 / 45.3)				
K5.01	Electro/ Pneu	matic converter operation		1.9*	2.1*	1.9	2.1
K5.02	Control devic	e operation		2.2*	2.2*	2.2	2.2
K5.03	Demineralize	r operation		2.4	2.5	2.4	2.5
K5.04	Heat exchang	er operation		2.7	2.7	2.7	2.7
K5.05	Flow controll	ers		2.6	2.6	2.6	2
K5.06	Pressure cont	rollers		2.6*	2.6	2.6	2.、
K5.07	Conductivity	measurement		2.5	2.6	2.5	2.6
K5.08	Temperature	measurement		2.6	2.6	2.6	2.6
K6	Knowledge of following will CLEANUP SY	the effect that a loss or malfunction of the have on the REACTOR WATER /STEM:	(41.7 / 45.7)				
K6.01	Component c	ooling water systems		3.1	3.3	3.1	3.3
K6.02	Main conden	ser		2.4	2.4	2.4	2.4
K6.03	Radwaste			2.4	2.4	2.4	2.4
K6.04	Plant air syste	ems		2.7	2.8	2.7	2.8
K6.05	A.C. power			2.6	2.6	2.6	2.6
K6.06	Reactor feedy	water system		2.4*	2.4*	2.4	2.4
K6.07	SBLC logic	-		3.3	3.5	3.3	3.5
K6.08	PCIS/NSSSS			3.5	3.5	3.5	3.5
K6.09	CRD hydraul	ics: Plant-Specific		2.7	2.9	2.7	2.9

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Facility:

Printea: 06/11/2000	2006
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	System Number:	204000					
	System Name:	Reactor Water Cleanup System	CEP	<u>NRC</u>	<u>lmp</u> SRO	<u>Facili</u> RO	t <u>y Imp</u> SRO
·			CFR	ĸo	51(0	ĸo	SICO
A1	Ability to pred associated with	lict and/or monitor changes in parameters h operating the REACTOR WATER	(41.5 / 45.5)				
	CLEANUP SY	STEM controls including:		2.1	2 2	2.1	2.2
A1.01	Reactor water	r level		3,1	3.2	3.1	3.2
A1.02	Component c	ooling water temperature		2.9	2.9	2.9	2.9
A1.03	Reactor water	r temperature		2.8	2.9	2.8	2.9
A1.04	System flow			2.8	2.8	2.8	2.8
A1.05	System press	ure		2.6	2.6	2.6	2.6
A1.06	System temp	erature		2.8	2.8	2.8	2.8
A1.07	RWCU drain	flow		2.9	2.9	2.9	2.9
A1.08	Main conden:	ser hotwell level		2.3	2.3	2.3	2.3
A1.09	Reactor water	r conductivity		3.0	3.2	3.0	3.2
A2	Ability to (a) p REACTOR W	oredict the impacts of the following on the ATER CLEANUP SYSTEM; and (b)	(41.5 / 45.6)				
	control, or mit	tigate the consequences of those abnormal					
A2 01	Loss of comm	oonent cooling water		3.2	3.4	3.2	3.4
A2 02	Pressure contr	ol valve failure: LP-RWCU		3.2	3.2	3.2	3.2
A2 03	Flow control	valve failure		2.9	2.9	2.9	2.9
7 04	Pump trips			2.7	2.9	2.7	2.9
	Valve openin	05		2.7	2.8	2.7	2.8
A2.05	A C failure	83		2.5	2.6	2.5	2.6
A2.00	Loss of plant	nir systems		2.5	2.6	2.5	2.6
A2.07	PWCU pumr	an systems		2.0	31	2.5	31
A2.00	Loss of room			2.2	2.8	2.2	2.8
A2.09	Loss of room			2.0	2.0	2.0	2.0
A2.10	Varve crosure	ustam Aaus Dant Snaaifia		2.7	2.0	2.7	2.0
A2.11	Eugensiue dr	via flow rates		2.0	2.7	2.0	2.7
A2.12	Excessive un	an now races		2.7	2.0	3.1	2.0
A2.15	Signal receiv	temperature		3.7	3.7	2.7	3.7
A2.14 A2.15	Cleanup dem	ineralizer high differential pressure		2.8	2.9	2.8	2.9
A3	Ability to mon WATER CLE	nitor automatic operations of the REACTO	)R (41.7 / 45.7)				
A3.01	System pressu	re downstream of the pressure regulating value	<del>ve:</del> -	3.3	3.3	3.3	3.3
1 2 0 2				2.0	2 2	2.0	27
A3.02	Reactor wate	r quanty		2.7	3.2 3.2	2.7	3.2 2.4
A3.03	Response to s	system isolations		3.U 2.4	3.0 2.5	3.0 2.4	3.0 2 f
A3.04	Response to i components	interlocks and trips designed to protect system	1	3.4	3.5	3,4	3.3
A3.05	Reactor wate	r temperature		2.8	2.8	2.8	2.8
A3.06	Lights and al	arms		3.1	3.1	3.1	3.1

#### Facility: CPS

#### System Number: 204000

	System Name: Reactor Water Cleanup System	NRC	Imp	<u>Facilit</u>	<u>y Im</u>
	CFR	RO	SRO	RO	SI.
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)				
	room:				
A4.01	System pumps	3.1	3.0	3.1	3.0
A4.02	Valve controllers	2.9	2.9	2.9	2.9
A4.03	RWCU drain flow regulator	3.2	3.1	3.2	3.1
A4.04	Heat exchanger operation	2.8	2.8	2.8	2.8
A4.05	System pressure	2.9	2.8	2.9	2.8
A4.06	System flow	3.0	2.9	3.0	2.9
A4.07	System temperature	3.1	3.1	3.1	3.1
A4.08	Reactor water level	3.4	3.4	3.4	3.4
A4.09	Reactor water temperature	2.9	2.9	2.9	2.9

Facility: CPS

		System Number:	205000					
		Sustam Nama	Shutdown Cooling System (RHR Shutdo	Wn	NRC	Imn	Facili	ty Imn
	and <sup>1</sup>	System Ivame:	Cooling Mode)	CFR	RO	SRO	RO	SRO
-	K1	Knowledge of effect relations SYSTEM (RH the following:	the physical connections and/or cause- ships between SHUTDOWN COOLING R SHUTDOWN COOLING MODE) and	(41.2 to 41.9 / 45.7 to 45.8)				
	K1.01	Reactor press	ure		3.6	3.6	3.6	3.6
	K1.02	Reactor water	r level		3.6	3.6	3.6	3.6
	K1.03	Recirculation	loop temperature		3.4	3.5	3.4	3.5
	K1 04	Fuel nool coo	ling assist: Plant-Specific		2.7	2.7	2.7	2.7
	K1.05	Component c	onling water systems		3.1	3.1	3.1	3.1
	K1.06	A.C. electrica	l power		3.2	3.3	3.2	3.3
	K1.07	D.C. electrica	l power		2.4	2.6	2.4	2.6
	K1.08	LPCI			3.9	3.9	3.9	3.9
	K1.09	Auxiliary stea	m supply: Plant-Specific		2.2*	2.2*	2.2	2.2
	K1.10	RWCU			2.3*	2.3*	2.3	2.3
	KI.II	Nitropen: Plar	nt-Snecific		1.8*	1.8*	1.8	1.8
	K1.12	Isolation cond	enser: Plant-Specific		2.4*	2.4*	2.4	2.4
	K1.13	Floor drain sy	vstem: Plant-Specific		1.7*	1.7*	1.7	1.7
	K1.14	Reactor temp	eratures (moderator, vessel, flange)		3.6	3.6	3.6	3.6
	K1.15	RHR service	water: Plant-Specific		3.5	3.6	3.5	3.6
	К2	Knowledge of	electrical power supplies to the following:	(41.7)				
	K2.01	Pump motors			3.1*	3.1*	3.1	3.1
	K2.02	Motor operat	ed valves		2.5*	2.7*	2.5	2.7
	КЗ	Knowledge of SHUTDOWN following:	the effect that a loss or malfunction of the COOLING SYSTEM/MODE will have on	(41.7 / 45.4)				
	K3.01	Reactor press	sure		3.3	3.3	3.3	3.3
	K3.02	Reactor wate	r level: Plant-Specific		3.2	3.3	3.2	3.3
	K3.03	Reactor temp	eratures (moderator, vessel, flange)		3.8	3.9	3.8	3.9
	K3.04	Recirculation	loop temperatures		3.7	3.7	3.7	3.7
	K3.05	Fuel pool coo	oling assist: Plant-Specific		2.6	2.7	2.6	2.7
	K4	Knowledge of SYSTEM/MC which provide	SAUTDOWN COOLING DE design feature(s) and/or interlocks for the following:	(41.7)				
	K4.01	High tempera	ature isolation: Plant-Specific		3.4	3.4	3,4	3.4
	K4.02	High pressur	e isolation: Plant-Specific		3.7	3.8	3.7	3.8
	K4.03	Low reactor	water level: Plant-Specific		3.8	3.8	3.8	3.8
	K4.04	Adequate pu	mp NPSH		2.6	2.6	2.6	2.6
	K4.05	Reactor cool	down rate		3,6	3.7	3.6	3.7
	K4.06	Motor coolin	g: Plant-Specific		2.3*	2.3	2.3	2.3
	K4.07	Pump minim	um flow		2.7	2.8	2.7	2.8
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	System Number:	205000						
	System Name: Shutdown Cooling System (RHR Shutdown			NRC	Imp	Facility Im		
		Cooling Mode)		CFR	RO	SRO	RO	S.
К5	Knowledge of following conc COOLING SY	the operational implications of the epts as they apply to SHUTDOWN /STEM/MODE:	(41.5 / 45,3)					
K5.01	NPSH				2.2*	2.4	2.2	2.4
K5.02	Valve operati	on			2.8	2.9	2.8	2.9
K5.03	Heat removal	mechanisms			2.8	3.1	2.8	3.1
K5.04	System vention	ng			2.4	2.4	2.4	2.4
K6	Knowledge of following will SYSTEM/MO	the effect that a loss or malfunction of the bave on the SHUTDOWN COOLING	(41.7 / 45.7)					
K6.01	A C electrics	DE:			33	34	33	34
K6 02	DC electrics	il power			27	2.9	2.7	2.9
K6.02	Recirculation	system			3.1	3.2	3.1	3.2
K6.04	Reactor water	r level			3.6	3.6	3.6	3.6
K6 05	Component c	ooling water systems			3.2	3.3	3.2	3.3
K6 06	Auxiliary ster	am supply: Plant-Specific			2.0*	2.0*	2.0	2.0
K6.07	Nitrogen: Plar	nt-Snecifie			1.8*	1.8*	1.8	1.8
K6.08	RHR service	water: Plant-Specific			3.5	3.7	3.5	3.7
A1	Ability to prec associated wit SYSTEM/MO	lict and/or monitor changes in parameters h operating the SHUTDOWN COOLING DE controls including:	(41.5 / 45.5)					
A1.01	Heat exchang	er cooling flow			3.3	3.2	3.3	3.2
A1.02	SDC/RHR pt	imp flow			3.3	3.2	3.3	3.2
A1.03	Recirculation	loop temperatures			3.3	3.3	3.3	3.3
A1.04	SDC/RHR pi	imp suction pressure			2.7	2.7	2.7	2.7
A1.05	Reactor wate	r level			3.4	3.4	3.4	3.4
A1.06	Reactor temp	eratures (moderator, vessel, flange)			3.7	3.7	3.7	3.7
A1.07	Motor amps:	PlantSpecific			2.2*	2.1*	2.2	2.1
A1.08	Heat exchang	er temperatures			3,1	2.9	3.1	2.9
A1.09	SDC/RHR pt	ump/system discharge pressure			2.8	2.8	2.8	2.8
A1.10	Throttle valv	e position			3.0	2.9	3.0	2.9

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	Facility: CF	\$			Printe	ed: 08/1	1/2006
	System Number:	205000					
	System Name:	Shutdown Cooling System (RHR Shutdo	Wn	NRC	լաթ	Facili	tv imp
	<u></u>	Cooling Mode)	CFR	RO	SRO	RO	SRO
A2	Ability to (a) SHUTDOWN	predict the impacts of the following on the COOLING SYSTEM/MODE; and (b)	(41.5 / 45.6)				
	based on thos control, or mi	e predictions, use procedures to correct, tigate the consequences of those abnormal					
42.01	Popirculation	operations;		3 1	33	3 1	2 2
A2.01	Low shutdow	m cooling system pressure: Plant Specific		2.6	5.5 7 7	2.6	3.5 77
A2.02	Low shuldov	in cooming suction pressure. Train-specific		2.0	2.7	2.0	2.7
A2.05	D.C. failure			2.5	2.6	2.5	2.6
A2.04	D.C. failure	tion		2.5	2.0	3.5	2.0
A2.05	SDC/PUP m	non		3.4	35	34	35
A2.00	Loss of moto	unip inps vr. cooling: Diant Specific		2.4	2.2	2.4	2.2
A2.07	Loss of more	evelonger cooling		2.7	2.7	33	2.7
A2.00	Possion low	water level		3.5	3.2	3.5	3.9
A2.09	Value operat	ion		20	2.0 2.0	2.0	2.0
A2.10	Peoirculation	numn trips: Plant Specific		2.5	2.7	2.5	2.7
A2.12	Inadequate s	ystem flow		2.9	3.0	2.9	3.0
A3	Ability to more SHUTDOWN	nitor automatic operations of the	(41.7 / 45.7)				
A 3 01	Valve operat	ion		3.2	3.1	32	3.1
102 יוט.	Pump trips			3.2	3.2	3.2	3.2
02. 03. ک	Lights and al	larms		3.5	3.3	3.5	3.3
A4	Ability to ma	nually operate and/or monitor in the control	(41.7 / 45.5 to 45.8)				
	room:					<u> </u>	
A4.01	SDC/RHR p	umps		3.7	3.7	3.7	3.7
A4.02	SDC/RHR si	uction valves		3.6	3.5	3.6	3.5
A4.03	SDC/RHR d	ischarge valves		3.6	3.5	3.6	3.5
A4.04	Heat exchan	ger cooling water valves		3.4	3.3	3.4	3.3
A4.05	Minimum fle	bw valves		3.2	3.2	3.2	3.2
A4.06	Reactor wate	er level		3.8	3.7	3.8	3./
A4.07	Reactor temp	peratures (moderator, vessel, flange)		5.7	3.1	5.1	3.1
A4.08	Reactor pow	er: Plant-Specific		3.1	3.2	3.I 2.1	3.2
A4.09	System flow			5.1	3.1	3.1	3.1
A4.10	System press	sures		2.9	3.0	2.9	3.0
A4.11	Heat exchan	ger cooling flow		3.2	3.2	3.2	3.2
A4.12	Recirculation	n loop temperatures		3.4	3.4	3.4	5.4

	Facility: CPS			Printe	d: 08/1	1/2006
	System Number: 206000					
	System Name: High Pressure Coolant Injection System		NRC	Imp	Facili	ty Imp
		CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or cause- effect relationships between HIGH PRESSURE COOLANT INJECTION SYSTEM and the following:	(41.2 to 41.9 / 45.7 to 45.8)				
K1.01	Reactor vessel: BWR-2. 3. 4		3.8	3.9	3.8	3.9
K1.02	Reactor water level: BWR-2, 3, 4		4.0	4.1*	4.0	4.1
K1.03	Reactor pressure: BWR-2, 3, 4		3.8	3.8	3.8	3.8
K1.04	Reactor feedwater system: BWR 2. 3. 4		3.6	3.6	3.6	3.6
K1.05	Condensate storage system: BWR-2, 3, 4		3.7	3.7	3.7	3.7
K1.06	Suppression chamber: BWR-2, 3, 4		3.7	3.7	3.7	3.7
K1.07	<del>D.C. power: BWR-2, 3, 4</del>		3.7*	3.8*	3.7	3.8
K1.08	A.C. power: BWR-2, 3, 4		3.0*	3.1*	3.0	3.1
K1.09	ECCS keep fill system: BWR-2, 3, 4(P-Spec)		4.0*	4.0	4.0	4.0
K1.10	Condensate storage and transfer system: BWR-2, 3, 4		3.4	3.4	3.4	3.4
K1.11	PCIS: BWR-2, 3, 4		3.5	3.5	3.5	3.5
K1.12	Nuclear boiler instrumentation: BWR-2, 3, 4		3.4	3.4	3.4	3.4
K1.13	Main condenser: BWR-2, 3, 4(P Spec)		2.8*	2.9*	2.8	2.9
K1.14	SBGT: BWR-2, 3, 4(P-Spec)		2.9	3.1	2.9	3.1
K1.15	Plant air systems: BWR-2, 3, 4		2.3*	2.3*	2.3	2.3
K1.16	Containment/Torus pressure: BWR-2, 3, 4		3.5	3.5	3.5	3.5
К2	Knowledge of electrical power supplies to the following:	(41.7)				
(2.01	System valves: BWR-2, 3, 4		3.2*	3.3*	3.2	3.3
<b>K</b> 2.02	System pumps: BWR-2, 3, 4		2.8*	3.1*	2.8	3.1
K2.03	Initiation logic: BWR-2, 3, 4		2.8*	2.9*	2.8	2.9
K2.04	Turbine control circuits: BWR-2, 3, 4		2.5*	2.7*	2.5	2.7
К3	Knowledge of the effect that a loss or malfunction of the HIGH PRESSURE COOLANT INJECTION SYSTEM	(41.7 / 45.4)				
122.01	Will have on following:		4.0	4.0	4.0	4.0
K3.01	Keactor water level control: BWK-2, 3, 4		4.0	4.0	4.0	4.0

 K3.02
 Reactor pressure control: BWR-2, 3, 4
 3.8\*
 3.8\*
 3.8
 3.8

 K3.03
 Suppression pool-level control: BWR-2, 3, 4
 3.4\*
 3.5\*
 3.4
 3.5

Printed:	08/11/2006

	Facility: CPS				Printe	ed: 08/1	1/2006
	System Number:	206000					
	System Name:	High Pressure Coolant Injection Sys	stem	NR	<u>C Imp</u>	Facili	ity Ir
			C	FR RO	SRO	RO	 E
K4	Knowledge of H	IGH PRESSURE COOLANT	(41.7)				
	INJECTION SY	STEM design feature(s) and/or					
	interlocks which	provide for the following:					
K4.01	Turbine trips: B	WR-2, 3, 4		3.8	3.9	3.8	3.9
K4.02	System isolation	<del>1: BWR-2, 3,</del> 4		3.9	4.0	3.9	4.0
K4.03	Resetting turbin	e trips: BWR-2, 3, 4		4.2	4.1	4.2	4.1
K4.04	Resetting system	n isolations: BWR 2, 3, 4		4.0	3.9	4.0	3.9
K4.05	Preventing wate control): BWR-:	<del>r hammer in turbine exhaust line (proce 2, 3, 4</del>	<del>dural</del> -	3.1	3.4	3.1	3.4
K4.06	Preventing wate control ): BWR-	<del>r hammer in pump discharge line (proce 2, 3, 4</del>	<del>dural</del> -	3.2	3.4	3.2	3.4
K4.07	Automatic syste	m-initiation: BWR-2, 3, 4		4.3*	4.3	4.3	4.3
K4.08	Manual system	initiation: BWR-2, 3, 4		4.2*	4.3	4.2	4.3
K4.09	Automatic flow	control: BWR-2, 3, 4		3.8	3.9	3.8	3.9
K4.10	Surveillance for	all operable components: BWR-2, 3, 4		3.7	3.8	3.7	3.8
K4.11	Turbine speed c	ontrol: BWR-2, 3, 4		3.4	3.5	3.4	3.5
K4.12	Condensation of	shaft-sealing steam: BWR-2, 3, 4		2.9	3.0	2.9	3.0
<b>K4</b> .13	Turbine and pur	np lubrication: BWR-2, 3, 4		3.0	3.1	3.0	3.1
K4.14	Control oil to tu	rbine speed controls: BWR-2, 3, 4		3.4	3.4	3.4	3.4
K4.15	Low speed-turni	ng of the turbine rotor: BWR-2, 3, 4(P-	Spec)	3.2	3.2	3.2	3.2
K4.16	Minimizi <del>ng fiss</del> storage tank (va 4 <del>(P-Spec)</del>	ion product concentration in the conden lve closures on system initiation): BWR	<del>sute -</del> -2, 3,	3.1	3.3	3.1	3.3
K4.17	Protection again suppression poo	st-draining the condensate storage tank I: BWR-2, 3, 4	to-the-	3.4	3.4	3.4	3.4
K4.18	Pump minimum	flow: BWR-2, 3, 4		3.2	3.3	3.2	3.3
K4.19	Automatic trans	fer of HPCI pump suction; BWR-2, 3, 4	,	3.7	3.8	3.7	3.8
К5	Knowledge of th	e operational implications of the	(41.5 / 45.3)				
	following conce COOLANT INJ	pts as they apply to HIGH PRESSUR IECTION SYSTEM:	E				
K5.01	Turbine operation	<del>m: BWR-2, 3,</del> 4		3.3	3.4	3.3	3.4
K5.02	Turbine shaft-se	aling: BWR-2, 3, 4		2.8	2.9	2.8	2.9
K5.03	GEMAC contro	Hers: BWR-2, 3, 4(P-Spec)		3.1	3.1	3.1	3.1
K5.04	Indications of p	ump cavitation: BWR-2, 3, 4		2.6*	2.7*	2.6	2.7
K5.05	<del>Turbine speed c</del>	ontrol: BWR-2, 3, 4		3.3	3.3	3.3	3.3
K5.06	Turbine speed n	neasurement: BWR-2, 3, 4		2.6*	2.6	2.6	2.6
K5.07	System venting:	<del>BWR-2, 3, 4</del>		2.8	2.8	2.8	2.8
K5.08	Vacuum breake	r operation: BWR-2, 3, 4		3.0	3.2	3.0	3.2
K5.09	Testable check v	valve operation: BWR-2; 3, 4		2.7*	2.8	2.7	2.8
K5.10	Assist-core cool	ing: BWR-2, 3, 4		3.5	3.5	3.5	3.5

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	Facility: CPS		Print	ed: 08/1	1/2006
	System Number: 206000				
	System Name: High Pressure Coolant Injection System	NRC	Imp	Facili	ty Imp
	CFR	RO	SRO	RO	SRO
K6	Knowledge of the effect that a loss or malfunction of the (41.7 / 45.7) following will have on the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI):				
K6.01	Plant air systems: BWR-2, 3, 4	2.3*	2.3*	2.3	2.3
K6.02	D.C. power: BWR-2, 3, 4	3.3	3.7*	3.3	3.7
K6.03	A.C. power: BWR-2, 3, 4	2.9	3.1*	2.9	3.1
K6.04	Condensate storage tank level: BWR-2, 3, 4	3.5	3.7	3.5	3.7
K6.05	Suppression pool level: BWR-2, 3, 4	3.5	3.7	3.5	3.7
K6.06	SBGTS: BWR-2, 3, 4(P-Spec)	3.1	3.2	3.1	3.2
K6.07	ECCS keep fill system: BWR-2, 3, 4(P-Spec)	3.4	3.4	3.4	3.4
K6.08	Reactor pressure: BWR-2, 3, 4	3.8	3.8	3.8	3.8
K6.09	Condensate storage and transfer system: BWR 2, 3, 4	3.5	3.5	3.5	3.5
K6.10	<del>PCIS: BWR-2, 3,</del> 4	3.8	4.0	3.8	4.0
K6.11	Nuclear boiler instrumentation: BWR-2, 3, 4	3.6	3.7	3.6	3.7
K6.12	Reactor water level: BWR-2, 3, 4	4,2*	4.3*	4.2	4.3
Al	Ability to predict and/or monitor changes in parameters (41.5 / 45.5) associated with operating the HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI) controls				
A 1 01	Including:	4.24			
A1.01	Reactor water level: BWR-2, 3, 4	4.3*	4.4*	4.3	4.4
A1.02	Keactor pressure: BWR-2, 3, 4	4.2*	4.2	4.2	4.2
-A1.03	Condensate storage tank level: BWK 2, 3, 4	3.5	3.6	3.5	3.6
A1.04	Suppression pool level: BWK-2, 3, 4	3./	3.8	3.7	3.8
A1.05	ouppression poor temperature: BWK-2, 3, 4	4.1	4.2	4.1	4.2
A1.07	<del>Dystem (10W: BWK-2, 3, 4</del>	3.8	3.7	3.8	3.7
A1.07	<del>Bysicin discharge prossure: BWK-2, 3, 4</del>	3.7	3.6	5.7	3.6
A1.08	<del>bysiem lineup: BWR-2, 3, 4</del>	4.1*	4.0	4.1	4.0
A1.09	Turbine speed: BWR-2, 3, 4	3.5	3.4	3.5	3.4

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	Facility: CPS			Printe	:d: 08/1	1/2006
	System Number: 206000					
	System Name: High Pressure Coolant Injection System		NRC	Imn	Facili	tv l·
		CFR	RO	SRO	RO	5.
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A2	Ability to (a) predict the impacts of the following on the (41.5/4	45.6)				
	HIGH PRESSURE COOLANT INJECTION SYSTEM					
	(HPCI); and (b) based on those predictions, use					
	procedures to correct, control, or infigure the					
A 2 01	Turbing trips: $BW/R_{-2} > A$		4.0	4.0	4.0	4.0
A2.01	$\frac{1}{10000000000000000000000000000000000$		7.0	2.5	4.0	2.5
A2.02	Value appringer $PWP = 2 - 3 - 4$		3.5	2.5	3.5	3.5
A2.05	$\frac{\sqrt{a_1}\sqrt{c_0}}{\sqrt{c_0}} \frac{1}{\sqrt{c_0}} \frac{1}{$		ג. דרר 1	2.0*	3.5	3.5
A2.04	D C foilures: $\mathbf{DWR} = 2 \cdot 3 \cdot 4$		2.7	3.0	2.7	3.0
A2.05	$D_{A_{a}}$ induces $D_{WK} 2, 3, 4$		2.2	2.5	3.5	3.5
A2.00	Low suppression nool level: DWP 2, 3, 4		3.5	3.5	3.3	3.5
A2.07	tHigh suppression pool temperature: BWR-2, 3, 4		3.9	3.0 4.2	3.4	4.2
A2.00	<sup>†</sup> I ou condensate storage tank level: BWR-2-3-4		3.5	37	3.5	37
A2.07	System isolation: BWP-7-3 A		4.0	<i>J</i> .7 <i>A</i> 1	4.0	<i>J</i> .7 <i>A</i> 1
A2.10	$\frac{1}{2} = \frac{1}{2} = \frac{1}$		4.0	4.1	4.0	4.1
A2.11	Loss of room cooling: BWP 2-3-4		3.4	3.5	ч.1 З Д	35
A2.12	Loss of applicable plant air systems: BWR 2 3 4		5. <del>4</del> 7.4*	2.5	2.4	24
A2 14	Elow controller failure: BWB 2-3-4		33	3.4	33	3.4
A2 15	Lors of control oil pressure: RWR.2, 3, 4		3.4	35	3.4	3.5
A2 16	High drywell pressure: BWR-2, 3, 4		4.0	41	4.0	4 1
A2 17	HPCL inadvertent initiation: BWR-7-3-4		3.9	4.3*	3.9	43
112111			• • •			· ·
43	Ability to monitor outomatic operations of the HICH $(41.7)$	45 7)				,
AJ	PRESSURE COOLANT IN JECTION SYSTEM (HPCI)	4.5.7)				
	including:					
A3 01	Turbine speed: BWR-2-3-4		3.6	35	3.6	3.5
A3.02	System Flow: BWR-2, 3, 4		3.8	3.8	3.8	3.8
A3.03	System lineup: BWR-2, 3, 4		3.9	3.8	3.9	3.8
A3.04	Reactor pressure: BWR-2, 3, 4		4.2*	4.1	4.2	4.1
A3.05	Reactor water level: BWR-2, 3, 4		4.3*	4.3*	4.3	4.3
A3.06	System discharge pressure: BWR-2, 3, 4		3.8	3.8	3.8	3.8
A3.07	Lights and alarms: BWR-2, 3, 4		3.9	3.8	3.9	3.8
A3.08	Condensate storage tank level: BWR-2, 3, 4		3.7	3.6	3.7	3.6
A3.09	Response to system isolation: BWR-2, 3, 4		4.2*	4.1	4.2	4.1

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	Facility: CPS		Printed: 08/11/200				
	System Number: 206000						
	System Name: High Pressure Coolant Injection System	NRC	lmp	<u>Facili</u>	ity Imp		
	CFR	RO	SRO	RO	SRO		
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:						
A4.01	Turbine speed controls: BWR-2, 3, 4	3.8	3.7	3.8	3.7		
A4.02	Flow controller: BWR-2, 3, 4	4.0*	3.8	4.0	3.8		
A4.03	Turbine temperatures: BWR-2, 3, 4	3.1	3.0	3.1	3.0		
A4.04	Major system valves: BWR-2, 3, 4	3.7	3.7	3.7	3.7		
A4.05	Reactor water level: BWR-2, 3, 4	4 4*	4.4*	4.4	4.4		
A4.06	Reactor pressure: BWR-2, 3, 4	4.3*	4.3*	4.3	4.3		
A4.07	Condensate storage tank level: BWR-2, 3, 4	3.5	3.5	3.5	3.5		
A4.08	Suppression pool temperature: BWR-2, 3, 4	4 1*	4.1	4.1	4.1		
A4.09	Suppression pool level: BWR-2, 3, 4	3.8	3.7	3.8	3.7		
A4.10	System pumps: BWR-2, 3, 4	3.7	3.5	3.7	3.5		
A4.11	Turning gear: BWR-2, 3, 4(P-Spec)	3.0	3.0	3.0	3.0		
A4.12	Turbine trip controls: BWR-2, 3, 4	4.0	3.9	4.0	3.9		
A4.13	Turbine reset control: BWR-2, 3, 4	4.1*	4.0	4.1	4.0		
A4.14	System auto start control: BWR 2, 3, 4(P Spec)	4.2*	4.1	4.2	4.1		

	Facility: CPS				Printe	ed: 08/1	1/2006
	System Number:	207000					
	System Name:	Isolation (Emergency) Condenser		NRC	Imp	Facili	ty Imp
			CFR	RO	SRO	RO	SRO
K1	Knowledge of t effect relations	the physical connections and/or cause- hips between ISOLATION	(41.2 to 41.9 / 45.7 to 45.8)				
V1 01	(EMERGENC	Y) CONDENSER and the following:		20	4.0	20	4.0
K1.01	Reactor vesser.	$\frac{\mathbf{DWR}}{2, 2}$		5.0 4.0	4.0	5.0 4.0	4.0
K1.02	Reactor pressu	re: BWK-2, 3		4.0	4.2	4.0	4.2
K1.03	Keactor water	ievel: BWK-2, 3		3.7	3.8	3.7	3.8
K1.04	Condensate tra	nster system: BWR-2, 3		3.5	3.8	3.5	3.8
K1.05	Demineralized	water system: BWR-2, 3(P-Spec)		3.4	3.6	3.4	3.6
K1.06	Fire protection	/service water: BWR-2, 3		3.3*	3.7	3.3	3.7
K1.07	LPCI: BWR-2.	<del>, 3(P-Spec)</del>		3.0*	3.3*	3.0	3.3
K1.08	Recirculation s	ystem: BWR-2, 3		3.0	3.2	3.0	3.2
K1.09	Main steam sys	stem: BWR-2, 3		3.0	3.2	3.0	3.2
K1.10	Plant air syster	ns: BWR-2, 3		3.0*	3.2	3.0	3.2
K1.11	Primary contai	nment isolation system: BWR-2, 3		3.4	3.6	3.4	3.6
К2	Knowledge of a	electrical power supplies to the following:	(41.7)				
K2.01	Motor operated	I-valves: BWR 2, 3		3.6	3.8	3.6	3.8
K2.02	Initiation logic	<del>: BWR-2, 3</del>		3.5	3.7	3.5	3.7
К3	Knowledge of 1 ISOLATION ( on following:	the effect that a loss or malfunction of the EMERGENCY) CONDENSER will have	(41.7 / 45.4)				
K3.01	Reactor-pressu vessel is isolate	re control during conditions in which the re ed: BWR-2, 3	actor	4.2*	4.3*	4.2	4.3
K3.02	<del>†Reactor water water source):</del>	r level (EPG's address the isolation condens BWR-2, 3	er as a	3.8*	4.0*	3.8	4.0
K4	Knowledge of I CONDENSER provide for the	SOLATION (EMERGENCY) design feature(s) and/or interlocks which	( <b>41.</b> 7)				
K4 01	Isolation of the	system in the event of a line break - RWR_	2-3	4.3*	4.5*	4.3	4.5
K4 07	Automatic init	intion: RWR 2.3	-, -	4.2*	4.2	4.2	4.2
KA 02	Filling of the p	vetom: BWR_2_3		33	35	33	35
K4 04	Steam and con	dencate flow indication: RU/D 2 2		3.2	3.4	3.2	3.4
K4.04 K4.05	Detection of a	tube bundle leak, DW/D. 2_2		4 N*	۶.٦ ۵ ک	40	4.2
N.9.U.3 KA 04	Throttling of m	ustem flow: BW/D 2 2		ે⊤.⊍ ૨. <b>૨</b> ¥	4.2	3.8	4.0
N4.00	1 motuning of 5	$\frac{1}{100} - \frac{1}{100} + \frac{1}$			-7.0 ⊿∩	3.0 3.8	4.0
N4.U/	Protoction con	ion of the system. Dwk-2, 3	scote	2.0' 2.1	7.U 2.K	3.0	3.6
K4.U8	outlet valve do	es not fully open): BWR-2,3,(P-Spec)		2.4	5.0	J.4	0.0

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	Facility: CPS			Printe	ed: 08/1	1/2006
	System Number: 207000					
	System Name: Isolation (Emergency) Condenser		NRC	Imp	<u>Facil</u> i	<u>ty I</u> r
		CFR	RO	SRO	RO	•
К5	Knowledge of the operational implications of the following concepts as they apply to ISOLATION (EMERGENCY) CONDENSER:	(41.5 / 45.3)				
K5.01	Flow measurement across an elbow using differential pr BWR-2, 3	<del>essure:</del>	2.6*	3.0*	2.6	3.0
K5.02	Heat exchanger operation: BWR-2, 3		3.0	3.3	3.0	3.3
K5.03	Heat transfer: BWR-2, 3		2.7	3.0	2.7	3.0
K5.04	Latent heat of vaporization: BWR-2.3		2.3*	2.7*	2.3	2.7
K5.05	Saturated steam: BWR-2.3		2.5*	2.7	2.5	2.7
K5.06	Saturated liquid: BWR-2, 3		2.5*	2.7	2.5	2.7
K5.07	Temperature sensing: BWR-2, 3		2.7*	2.8	2.7	2.8
K5.08	Level indicator operation: BWR-2. 3		2.8*	3.0	2.8	3.0
K5.09	Cooldown rate: BWR-2.3		3.7	4.0	3.7	4.0
K5.10	System venting: BWR-2, 3		3.0	3.2	3.0	3.2
K6	Knowledge of the effect that a loss or malfunction of t following will have on the ISOLATION (EMERGENC CONDENSER:	he (41.7 / 45.7) CY)				
K6.01	Demineralized water system: BWR-2, 3(P-Spec)		3.3	3.7	3.3	3.7
K6.02	Fire protection/service water system: BWR-2.3		3.5	3.7	3.5	3.7
K6.03	Condensate transfer system: BWR-2-3		3.5	3.8	3.5	3.8
K6.04	Plant air systems: BWR-2, 3		3.2*	3.3*	3.2	3.1
K6.05	Primary containment isolation system: BWR-2-3		3.6	3.8	3.6	3.
K6.06	Recirculation system: BWR-2, 3		3.0	3.2	3.0	3.2
K6.07	$\Lambda$ .C. power: BWR-2, 3		3.0*	3.2	3.0	3.2
K6.08	D.C. power: BWR-2, 3		3.5	3.7	3.5	3.7
AI	Ability to predict and/or monitor changes in parameter associated with operating the ISOLATION (EMERCENCY) CONDENSER controls including:	ers (41.5 / 45.5)				
A1 01	Isolation condenser level: BWR-2-3		37	38	37	38
A1 02	Shell-side water temperature: RWR-2-3		3.2	3.4	3.2	3.4
A1 03	Steam flow: BWR-2-3		3 3*	3.0	3.3	3.0
A1 04	Condensate flow: BWR-2 -3(P-Spec)		33	3.5	3.3	3.5
A1.05	Reactor pressure: BWR-2.3		4.0*	4.2	4.0	4.2
A1.06	Reactor water level: BWR-2. 3		3.5	3.7	3.5	3.7
A1.07	Vent-radiation level: BWR-2.3		3.5	3.7	3.5	3.7
A1.08	Cooldown rate: BWR-2-3		3.7	4.0	3.7	4.0
A1.09	Valve operations: BWR-2.3		3.7	3.7	3.7	3.7
A1.10	Primary side temperature: BWR-2, 3		3.2	3.4	3.2	3.4

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	Facility: CPS			Printe	d: 08/11	1/2006
	System Number: 207000					
	System Name: Isolation (Emergency) Condenser		NRC	հար	<u>Facilit</u>	y Imp
$\sim$		CFR	RO	SRO	RO	SRO
A2	Ability to (a) predict the impacts of the following on the (41 ISOLATION (EMERGENCY) CONDENSER; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal	1.5 / 45.6)				
• • • • •	conditions or operations:		4 0*	1 5*	4.2	4.5
A2.01	tube bundle leak: BWK-2, 3		4.2"	4.5*	4.2	4.5
A2.02	THigh vent radiation: BWK-2; 3		4.5	4.7	4.3	4.7
A2.03	PC18 signal resulting in system isolation: BWK-2, 3		3.0** 1 0	4.0	3.8 7.9	4.0
A2.04	Inadequate system How: BWK-2, 3		3.6 4.0	4.0	3.8	4.0
A2.05	Insufficient shell side makeup flow: BWK-2, 3		4.0	4.0	4.0	4.0
A2.06	Valve openings: BWR-2, 3		3.3	3.3	3.3	3.3
A2.07	Valve closures: BWR-2, 3		3.3	3.3	3.5	5.5
A2.08	System initiation: BWR-2, 3		3.8*	3.8*	3.8	3.8
A3	Ability to monitor automatic operations of the (4)	1.7 / 45.7)				
A3 01	Isolation condensar level: RWR_2_3		35	37	35	37
A3.07	Pagetor processor RWD_2_3		38	4.0	3.8	4.0
A3.02	Reactor water level: RWR-2-3		35	37	35	37
A3.03	Vent radiation levels: RWP_2_3		4.0*	4.2	4.0	42
A3.04	System lineur: RWP_7_2		3.6	3.8	3.6	3.8
A3.05	Lights and alarms: $BW/P_{-2}$ 3		33	33	33	33
1.00	Drimant and shall side temperatures: RU/R_J_3		3.2	33	3.2	33
A3.08	System flow: BWR-2, 3		3.2	3.4	3.2	3.4
A4	Ability to manually operate and/or monitor in the control (4 room:	1.7 / 45.5 to 45.8)				
A4.01	Isolation condenser level: BWR-2.3		3.7	3.8	3.7	3.8
A4.02	Steam line pressure: BWR 2, 3		3.2	3.3	3.2	3.3
A4.03	Primary and shell side temperatures: BWR-2, 3		3.0	3.2	3.0	3.2
A4.04	Vent line radiation levels:-BWR-2, 3		3,8*	4.0	3.8	4.0
A4.05	Major system valves: BWR-2, 3		3.5	3.7	3.5	3.7
A4.06	Shell side makeup valves: BWR-2-3		3.8*	4.0	3.8	4.0
A4.07	Manually initiate the isolation condenser: BWR-2, 3		4.2*	4.3*	4.2	4.3

Facility: CPS

Printed:	08/11/2006

	System Number:	209001					
	<u>System Name:</u>	Low Pressure Core Spray System		NRC	Imp	<u>Facili</u>	ty Imp
<u> </u>			CFR	RO	SRO	RO	SRO
K1	Knowledge of effect relation	the physical connections and/or cause- ships between LOW PRESSURE CORE	(41.2 to 41.9 / 45.7 to 45.8)				
V1 01	SPRAY SYSI	ENI and the lonowing:		31	31	3.1	3 1
K1.01	Condensate s	storage tank: Plant-Specific		3.4	3.1	3.1	3.4
K 1.02	Torus/suppre			20	3.0	5.4 70	3.0
K1.03	Keep nit sys	tem		2.9	5.0 2.4	2.7	2.0
K1.04	condensate fi	ransier system		2.5	2.4	2.5	2.4
K1.05	Automatic de	epressurization system		2.7 2.0*	3./ 2.1#	3.7	2.7
K1.06	Plant air syst	ems		2.0	2.1	2.0	2.1
K1.07	D.C. electric	al power		2.5	2.7	2.3	2.7
K1.08	A.C. electric	al power		3.2	2.2	3.2	3.3
K1.09	Nuclear boile	er instrumentation		3.2	3.4	3.2	3.4
K1.10	Emergency g	generator		3.1	3.8	3.7	3.8
K1.11	Drywell cool	lers: Plant-Specific		2.4	2.6	2.4	2.6
K1.12	ECCS room	coolers		2.9	3.1	2.9	3.1
K1.13	Leak detection	a		2.8	3.0	2.8	3.0
K1.14	Reactor vess	el		3.7	3.8	3.7	3.8
К2	Knowledge of	electrical power supplies to the following:	(41.7)				
K2.01	Pump power			3.0*	3.1*	3.0	3.1
K2.02	Valve power			2.5*	2.7*	2.5	2.7
2.03	Initiation log	,ic		2.9*	3.1*	2.9	3.1
К3	Knowledge of LOW PRESS following:	f the effect that a loss or malfunction of the SURE CORE SPRAY SYSTEM will have on	(41.7 / 45.4)				
K3.01	Reactor wate	er level		3.8	3.9	3.8	3.9
K3.02	ADS logic			3.8	3.9	3.8	3.9
K3.03	Emergency (	generators		2.9	3.0	2.9	3.0
K3.04	Component	cooling water systems		2.1*	2.2	2.1	2.2
<b>K</b> 3.05	Drywell coo	ling: Plant-Specific		2.3	2.7	2.3	2.7
K4	Knowledge of SYSTEM des	f LOW PRESSURE CORE SPRAY sign feature(s) and/or interlocks which	(41.7)				
77.4.01	provide for ti	fe tonowing.		3 2	34	32	34
K4.01	Prevention o	or overpressurization of core spray piping		3.2	2.7	3.0	3.1
K4.02	Prevents war	ter nammer		2.4	2.5	5.0 2.4	2.5
K4.03	Motor coolin	ng		2.4 2.0	2.5	2.7	2.5
K4.04	Line break d	letection		3.U n 4	3.2 7.6	3.U 3.K	).L 7.L
K4.05	Pump minin	num now		2.U D 4	2.0	2.0	2.0
K4.06	A dequate pu	imp net positive suction head		2.0	2.7	∠.0 ว 0	∠.7 2.0
K4.07	Pump operal	bility testing		2.ð 7.9	3.0	2.0	5.0 A O
K4.08	Automatic s	ystem initiation		3.8	4.0	5.0 2 7	4.0
K4.09	Load sequen	icing		3.3	3.3	3.3 10	5.5 10
(4.10	Testability o	of all operable components		2.8	2.9	2.8	2.9

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Printed:	08/11/2006

	Facility: CPS				Printe	ed: 08/1	1/2006
	System Number:	209001					
	System Name:	Low Pressure Core Spray System		NRC	Imp	Facili	tv Ir
	System rate.		CFR	RO	SRO	RO RO	<u>5.</u>
К5	Knowledge of t following conce CORE SPRAY	he operational implications of the epits as they apply to LOW PRESSURE SYSTEM:	(41.5 / 45.3)				
K5.01	Indications of	pump cavitation		2.6	2.7	2.6	2.7
K5.02	Differential pr	ressure indication		2.4	2.6	2.4	2.6
K5.03	Testable check	k valve operation		2.3	2.4	2.3	2.4
K5.04	Heat removal	(transfer) mechanisms		2.8	2.9	2.8	2.9
K5.05	System ventin	<u>ρ</u>		2.5	2.5	2.5	2.5
K5.06	Recirculation of	peration: Plant Specific(BWR-1)		3.7	4.0	3.7	4.0
K6	Knowledge of t following will h	he effect that a loss or malfunction of the nave on the LOW PRESSURE CORE	(41.7 / 45.7)				
K6.01		C141.		34	34	34	34
K6.07	Emergency ge	merators		3.8	3.9	3.8	39
K6.02	Torus/suppres	sion nool water level		33	3.4	33	34
K6.04	D C power	sion poor mater reves		2.8	29	2.8	2.9
K6.05	ECCS room o	ooler(s)		2.8	2.9	2.8	2.9
K6.06	Pumn motor c	ooler(s)		2.4	2.4	2.4	2.4
K6.07	Pump seal coo	oler(s)		2.3	2.3	2.3	2.3
K6 08	Keen fill syste	m		2.9	3.0	2.9	3.0
K6.09	Fire protection	BWR-1		3.0*	3.3	3.0	3.
K6.10	ECCS room in	ntegrity: Plant-Specific		2.3	2.5	2.3	2.2
K6.11	ADS			3.6	3.7	3.6	3.7
Al	Ability to pred associated with SPRAY SYSTI	ict and/or monitor changes in parameters operating the LOW PRESSURE CORE EM controls including:	(41.5 / 45.5)				
A1.01	Core sprav flo	W		3.4	3.6	3.4	3.6
A1.02	Core spray pro	essure		3.2	3.4	3.2	3.4
A1.03	Reactor water	level		3.8	3.9	3.8	3.9
A1.04	Reactor pressi	ıre		3.7	3.7	3.7	3.7
A1.05	Torus/suppres	sion pool water level		3.5	3.6	3.5	3.6
A1.06	Motor amps			2.3*	2.4	2.3	2.4
A1.07	Emergency ge	enerator loading		3.0	3.1	3,0	3.1
A1.08	System lineup	, ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		3.3	3.2	3.3	3.2
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	Facility: CPS		Printe	d: 08/1	1/2006
	System Number: 209001				
	System Name: Low Pressure Core Spray System	NRC	lmo	Facili	tv Imo
·	<u>CFR</u>	RO	SRO	RO	SRO
A2	Ability to (a) predict the impacts of the following on the (41.5 / 45.6)				
	LOW PRESSURE CORE SPRAY SYSTEM; and (b)				
	based on those predictions, use procedures to correct,				
	control, or mitigate the consequences of those abnormal				
	conditions or operations:		• •		
A2.01	Pump trips	3.4	3.4	3.4	3.4
A2.02	Valve closures	3.2	3.2	3.2	3.2
A2.03	A.C. failures	3.4	3.6	3.4	3.6
A2.04	D.C. failures	2.9	3.0	2.9	3.0
A2.05	Core spray line break	3.3	3.6	3.3	3.6
A2.06	Inadequate system flow	3.2	3.2	3.2	3.2
A2.07	Loss of room cooling	2.6	2.8	2.6	2.8
A2.08	Valve openings	3.1	3.1	3.1	3.1
A2.09	Low suppression pool level	3.1	3.3	3.1	3.3
A2.10	†High suppression pool temperature	3.1	3.4	3.1	3.4
A2.11	+Loss of fire protection: BWR-1	2.8*	3.3	2.8	3.3
A3	Ability to monitor automatic operations of the LOW (41.7 / 45.7) PRESSURE CORE SPRAY SYSTEM including:				
A3.01	Valve operation	3.6	3.6	3.6	3.6
A3.02	Pump start	3.8	3.7	3.8	3.7
3.03	System pressure	3.5	3.5	3.5	3.5
<b></b> 3.04	System flow	3.7	3.6	3.7	3.6
A3.05	Reactor water level	3.9	3.9	3.9	3.9
A3.06	Lights and alarms	3.6	3.5	3.6	3.5
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)				
	room:	20	24	7 0	2.6
A4.01	Core spray pump	3.0 2.5	5.0 2.4	3.0 3.5	5.0 2.4
A4.02	Suction valves	3.3 7 7	3.4 3.6	3.3 27	3.4
A4.03	Injection valves	2.0	2.0	2.7	20
A4.04	Minimal flow valves	2.9	2.9	2.9	2.7
A4.05	Manual initiation controls	5.0 D /	5.0	5.0 Э⊿	5.0 2.4
A4.06	- I estable check valves	∠.4 2.7	2.4 つ 9	∠.4 つ 7	∠.4 २9
A4.07	Fill pump	2.7	2.0	2.7	2.0
A4.08	Keactor water level	3.9 2.6	2.5	3.7	2.5
A4.09	Suppression pool level	2.0	2.2	3.0	2.2
A4.10	Keactor pressure	3.9 27	2.0 2.6	2.7	3.6
A4.11	System flow	3.1 2.4	25	2.1	5.0 2 K
A4.12	System pressure	2.0 2.4	э.э гл	Э.0 З Л	3.0
A4 11	Lights and alarms	J.+	J.H	J. <del>4</del>	2.4

A4.12 3.4 3.4 A4.13 Lights and alarms 3.6 3.6 A4.14 Containment level: BWR-1

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3.6

3.6

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System	Number:	209002

Facility: CPS

	System Name: High Pressure Core Spray System (HPCS)		<u>NRC</u>	Imp	<u>Facili</u>	t <u>y Imp</u>
		CFR	RO	SRO	RO	SRO
K1	Knowledge of the physical connections and/or cause- (41.2 to 41.5 effect relationships between HIGH PRESSURE CORE 45.8) SPRAY SYSTEM (HPCS) and the following:	9 / 45.7 to				
K1.01	Condensate transfer and storage system: BWR-5, 6		3.4	3.4	3.4	3.4
K1.02	Suppression Pool: BWR-5.6		3.5	3.5	3.5	3.5
K1.03	Water leg (jockey) pump; BWR-5, 6		3.0	3.0	3.0	3.0
K1.04	HPCS diesel generator: BWR-5, 6		3.8	3.8	3.8	3.8
K1.05	Standby liquid control system: Plant-Specific		2.8	2.8	2.8	2.8
K1.06	Suppression pool cleanup system: BWR-5, 6		2.0*	2	2.0	2
K1.07	ECCS room coolers: BWR-5. 6		2.4	2.4	2.4	2.4
K1.08	Component cooling water systems: BWR-5, 6		2.4	2.6	2.4	2.6
K1.09	Leak detection: BWR-5, 6		2,5	2.5	2.5	2.5
K1.10	Suppression pool suction strainers; BWR-5, 6		2.1*	2.1	2.1	2.1
K1.11	Adequate core cooling: BWR-5, 6		3.8	4.0	3.8	4.0
K1.12	Reactor vessel: BWR-5, 6		3.4	3.6	3.4	3.6
K1.13	Instrument nitrogen: BWR-5, 6		2.7	2.7	2.7	2.7
K1.14	Plant air systems: BWR-5, 6		2.6	2.6	2.6	2.6
к?	Knowledge of electrical power supplies to the following: (41.7)					
K2.01	Pump electrical power: BWR-5, 6		3.2	3.3	3.2	3.3
K2.02	Valve electrical power: BWR-5, 6		2.8	2.9	2.8	2.9
2.03	Initiation logic: BWR-5, 6		2.8	2.9	2.8	2.9
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К3	Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4) HIGH PRESSURE CORE SPRAY SYSTEM (HPCS) will have on following:	)				
K3 01	Reactor water level: BWR-5 6		3.9	3.9	3.9	3.9
K3.02	Standby liquid control system: Plant-Specific		3.3	3.3	3.3	3.3
K3.03	Adequate core cooling: BWR-5, 6		3.9	4.1	3.9	4.1
K4	Knowledge of HIGH PRESSURE CORE SPRAY (41.7) SYSTEM (HPCS) design feature(s) and/or interlocks					
	which provide for the following:					
K4.01	Prevents water hammer: BWR-5, 6		2.9	3.0	2.9	3.0
K4.02	Prevents over filling reactor vessel: Plant-Specific		3.4	3.5	3.4	3.5
K4.03	Prevents pump over heating: BWR-5, 6		2.3*	2.4	2.3	2.4
K4.04	Testable check valve operation: BWR-5, 6		2.3*	2.3*	2.3	2.3
K4.05	Motor operated valve operation: BWR-5, 6		2.4	2.4	2.4	2.4
K4.06	Centrifugal pump operation: BWR-5, 6		2.3*	2.4*	2.3	2.4
K4.07	Override of reactor water level interlock: Plant-Specific		3.5	3.0	3.5	3.0

	Facility: CPS				Printe	:d: 08/1	1/2006
	System Number: 209002						
	<u>System Name:</u> High Pressure Core Spray System (HPCS)			<u>NRC</u>	Imp	<u>Facili</u>	<u>ty Ir</u>
			CFR	RO	SRO	RO	8
К5	Knowledge of the operational implications of the ( following concepts as they apply to HIGH PRESSURE CORE SPRAY SYSTEM (HPCS):	41.5 / 45.3)					
K5.01	Indications of pump cavitation: BWR-5, 6			2.5	2.8	2.5	2.8
K5.02	Heat removal (transfer) mechanism: BWR-5, 6			2.6	2.7	2.6	2.7
K5.03	System venting: BWR-5, 6			2.4	2,4	2.4	2.4
K5.04	Adequate core cooling: BWR-5, 6			3.8	4.0	3.8	4.0
K6	Knowledge of the effect that a loss or malfunction of the ( following will have on the HIGH PRESSURE CORE SPRAY SYSTEM (HPCS):	41.7 / 45.7)					
K6 01	Electrical nover: BWR-5 6			3.6	3.6	36	3.6
K6.02	Condensate storage tank water level: BWR-5 6			3.4	34	34	3.4
K6.03	Component cooling water systems: BWR-5 6			2.5	2.6	2.5	2.6
K6.04	Suppression pool suction strainer: BWR-5, 6			2.5	2.5	2.5	2.5
AI	Ability to predict and/or monitor changes in parameters ( associated with operating the HIGH PRESSURE CORE SPRAY SYSTEM (HPCS) controls including:	41.5 / 45.5)					
A1.01	HPCS flow: BWR-5. 6			3.6	3.7	3.6	3.7
A1.02	HPCS pressure: BWR-5, 6			3.4	3.6	3.4	3.F
A1.03	Reactor water level: BWR-5, 6			3.7	3.7	3.7	3.
A1.04	Reactor pressure: BWR-5, 6			3.3	3.3	3.3	3.3
A1.05	Suppression pool water level: BWR-5, 6			3.3	3.4	3.3	3.4
A1.06	Motor amps: BWR-5, 6			1.9*	2.3*	1.9	2.3
A1.07	Diesel loading: BWR-5, 6			2.5*	2.8	2.5	2.8
A1.08	System lineup: BWR-5, 6			3.1	3.3	3.1	3.3
A1.09	Condensate storage tank level: BWR-5, 6			2.6	2.8	2.6	2.8

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	Facility: CPS		Printe	ed: 08/1	1/2006
	System Number: 209002				
	System Name: High Pressure Core Spray System (HPCS)	NRC	lmp	Facili	ty Imp
	CFR	RO	SRO	RO	SRO
A2	Ability to (a) predict the impacts of the following on the (41.5 / 45.6) HIGH PRESSURE CORE SPRAY SYSTEM (HPCS);				
	and (b) based on those predictions, use procedures to				
	correct, control, or mitigate the consequences of those				
A2 01	System initiation: BWR-5 6	3.8	3.8	3.8	3.8
A2 02	Pump trips: BWR-5 6	3.6	37	3.6	37
A2 03	Valve closures: BWR-5 6	3.2	3.4	3.2	3.4
A2.04	A.C. electrical failure: BWR-5. 6	3.1	3.2	3.1	3.2
A2.05	D.C. electrical failure: BWR-5, 6	2.8	2.9	2.8	2.9
A2.06	Core spray line break: BWR-5, 6	3.4	3.6	3.4	3.6
A2.07	Pump seal failure: BWR-5, 6	2.6	3.0	2.6	3.0
A2.08	Inadequate system flow: BWR-5, 6	3.1	3.2	3.1	3.2
A2.09	Loss of room cooling: BWR-5, 6	2.4	2.6	2.4	2.6
A2.10	Valve openings: BWR-5, 6	2.7	3.0	2.7	3.0
A2.11	Low suppression pool level: BWR-5, 6	3.3	3.5	3.3	3.5
A2.12	High suppression pool leve: BWR-5, 6	3.3	3.5	3.3	3.5
A2.13	Low condensate storage tank level BWR-5, 6	3.4	3.5	3.4	3.5
A2.14	High suppression pool temperature: BWR-5, 6	3.0	3.3	3.0	3.3
A2.15	Clogged suppression pool suction strainers: BWR-5, 6	2.4	2.6	2.4	2.6
A3	Ability to monitor automatic operations of the HIGH (41.7 / 45.7) PRESSURE CORE SPRAY SYSTEM (HPCS) including:				
A3.01	Valve operation: BWR-5, 6	3.3	3.3	3.3	3.3
A3.02	Pump start: BWR-5, 6	3.8	3.8	3.8	3.8
A3.03	System pressure: BWR-5, 6	3.6	3.6	3.6	3.6
A3.04	System flow: BWR-5, 6	3.7	3.7	3.7	3.7
A3.05	Reactor water level BWR-5, 6	3.7	3.7	3.7	3.7
A3.06	Lights and alarms: BWR-5, 6	2.8	2.8	2.8	2.8

	Facility: CPS		Printe	:d: 08/1	1/2006
	System Number: 209002				
	System Name: High Pressure Core Spray System (HPCS)	NRC	lmp	<u>Facili</u>	<u>ty 1</u> 7
	CFR	RO	SRO	RO	5.
A4	Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:				
A4.01	HPCS pump: BWR-5, 6	3.7	3.7	3.7	3.7
A4.02	Suction valves: BWR-5, 6	3.6	3.6	3.6	3.6
A4.03	Injection valve: BWR-5, 6	3.8	3.8	3.8	3.8
A4.04	Minimum flow valve: BWR-5, 6	3.1	3.1	3.1	3.1
A4.05	Manual Initiation controls: BWR-5, 6	3.8	3.8	3.8	3.8
A4.06	<del>Testable check valve: BWR-5, 6</del>	2.6	2.6	2.6	2.6
A4.07	Line fill pump: BWR-5, 6	2.8	2.8	2.8	2.8
A4.08	Reactor water level: BWR-5, 6	3.6	3.7	3.6	3.7
A4.09	Suppression pool level: BWR-5, 6	3.4	3.5	3.4	3.5
A4.10	Reactor pressure: BWR-5, 6	3.3	3.3	3.3	3.3
A4.11	System flow: BWR-5, 6	3.8	3.8	3.8	3.8
A4.12	System pressure: BWR-5, 6	3.4	3.4	3.4	3.4
A4.13	Lights and alarms: BWR-5, 6	2.6	2.6	2.6	2.6
A4.14	Test return valve: BWR-5, 6	3.0	3.0	3.0	3.0
A4.15	Initiation reset: BWR-5, 6	3.6	3.6	3.6	3.6

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|               | System Number:                 | 211000                                                                        |                                  |      |      |        |        |
|---------------|--------------------------------|-------------------------------------------------------------------------------|----------------------------------|------|------|--------|--------|
|               | System Name:                   | Standby Liquid Control System                                                 |                                  | NRC  | lmp  | Facili | ty Imp |
|               | <u>oyatem yanıçı</u>           |                                                                               | CFR                              | RO   | SRO  | RO     | SRO    |
| K1            | Knowledge of effect relations  | the physical connections and/or cause-<br>ships between STANDBY LIQUID        | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |        |        |
|               | CONTROL SY                     | YSTEM and the following:                                                      |                                  |      |      |        |        |
| K1.01         | Core spray lin                 | e break detection: Plant-Specific                                             |                                  | 3.0* | 3.3* | 3.0    | 3.3    |
| K1.02         | Core plate dif                 | ferential pressure indication                                                 |                                  | 2.7  | 2.7  | 2.7    | 2.7    |
| K1.03         | Plant air syste                | ems: Plant-Specific                                                           |                                  | 2.5  | 2.6  | 2.5    | 2.6    |
| K1.04         | Demineralize                   | d water/ condensate storage system                                            |                                  | 2.2* | 2.3* | 2.2    | 2.3    |
| K1.05         | RWCU                           |                                                                               |                                  | 3.4  | 3.6  | 3.4    | 3.6    |
| K1.06         | Reactor vesse                  | el                                                                            |                                  | 3.7  | 3.7  | 3.7    | 3.7    |
| K1.07         | Jet pump diff                  | erential pressure indication: Plant-Specific                                  |                                  | 2.6  | 2.6  | 2.6    | 2.6    |
| K1.08         | CRD drive an<br>indication     | nd cooling water differential pressure                                        |                                  | 2.3* | 2.4* | 2.3    | 2.4    |
| K1.09         | Core spray sy                  | stem: Plant-Specific                                                          |                                  | 3.2* | 3.4* | 3.2    | 3.4    |
| K1.10         | HPC1: Plant-S                  | pecifie                                                                       |                                  | 2.8* | 3.0* | 2.8    | 3.0    |
| К2            | Knowledge of                   | electrical power supplies to the following:                                   | (41.7)                           |      |      |        |        |
| K2.01         | SBLC pumps                     |                                                                               |                                  | 2.9* | 3.1* | 2.9    | 3.1    |
| K2.02         | Explosive val                  | ves                                                                           |                                  | 3.1* | 3.2* | 3.1    | 3.2    |
| K2.03         | Heater power                   |                                                                               |                                  | 2.2* | 2.4* | 2.2    | 2.4    |
| К3            | Knowledge of<br>STANDBY LI     | the effect that a loss or malfunction of the QUID CONTROL SYSTEM will have on | (41.7 / 45.4)                    |      |      |        |        |
| K2 01         | tonowing:                      | utdown the reactor in certain conditions                                      |                                  | 43*  | 4 4* | 43     | 44     |
| K2 02         | Core sprey li                  | na break detection system: Plant-Specific                                     |                                  | 3.0* | 3.2* | 3.0    | 3.2    |
| K3.02         | Core plate dit                 | ferential pressure indication                                                 |                                  | 2.6* | 2.7* | 2.6    | 27     |
| K3.03         | let numn diff                  | evential pressure indication: BWR-3.4.5.6                                     |                                  | 2.0  | 2.5* | 2.0    | 2.7    |
| K3.04         | CRD drive ar                   | d cooling water differential pressure                                         |                                  | 2.3* | 2.3* | 2.3    | 2.3    |
| <b>N</b> 5.05 | indication                     | to cooming water unrecention pressure                                         |                                  | 210  | 210  |        |        |
| K4            | Knowledge of<br>design feature | STANDBY LIQUID CONTROL SYSTEM<br>(s) and/or interlocks which provide for the  | (41.7)                           |      |      |        |        |
| 12 4 01       | tollowing:                     | to the constant (constituent of a set                                         |                                  | 2 1  | 2 7  | 31     | 27     |
| K4111         | Z ETO JEAKAGE                  | IO THE TEACOT I SOUTH VAIVEST                                                 |                                  | 2.1  | J.∠  | J. L   | 3.4    |

| K4 01 | Zero leakage to the reactor (south valves)                      | 3.1  | 3.2  | 3.1 | 3.2 |
|-------|-----------------------------------------------------------------|------|------|-----|-----|
| K4.01 | Component and system testing                                    | 3.0  | 3.2  | 3.0 | 3.2 |
| K4.03 | Keeping sodium pentaborate in solution                          | 3.8  | 3.9  | 3.8 | 3.9 |
| K4.04 | Indication of fault in explosive valve firing circuits          | 3.8  | 3.9  | 3.8 | 3.9 |
| K4.05 | Dispersal of boron upon injection into the vessel               | 3.4  | 3.6  | 3.4 | 3.6 |
| K4.06 | Core plate differential pressure indication                     | 2.6  | 2.7  | 2.6 | 2.7 |
| K4.07 | RWCU isolation                                                  | 3.8* | 3.9* | 3.8 | 3.9 |
| K4.08 | System initiation upon operation of SBLC control switch         | 4.2* | 4.2* | 4.2 | 4.2 |
| K4.09 | Dampening of positive displacement pump discharge oscillations- | 2.5* | 2.5* | 2.5 | 2.5 |
|       | (accumulators): Plant-Specific                                  |      |      |     |     |
| K4.10 | Over pressure protection                                        | 2.8  | 3.1  | 2.8 | 3.1 |
|       |                                                                 |      |      |     |     |

|       | Facility: CP                                  | PS                                                                                                         |               |      | Printe | d: 08/1 | 1/2006            |
|-------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------|------|--------|---------|-------------------|
|       | <u>System Number:</u>                         | 211000                                                                                                     |               |      |        |         |                   |
|       | System Name:                                  | Standby Liquid Control System                                                                              |               | NRG  | Imp    | Facili  | ty I <sup>,</sup> |
|       | bystem <u>runter</u>                          |                                                                                                            | CFI           | R RO | SRO    | RO      |                   |
| K5    | Knowledge of<br>following con<br>CONTROL S    | The operational implications of the cepts as they apply to STANDBY LIQUID YSTEM:                           | (41.5 / 45.3) |      |        |         |                   |
| K5.01 | Effects of the reactivity on                  | e moderator temperature coefficient of the boron                                                           |               | 2.7  | 2.9    | 2.7     | 2.9               |
| K5.02 | Chugging (as                                  | s it pertains to boron mixing)                                                                             |               | 2.8  | 3.0    | 2.8     | 3.0               |
| K5.03 | Shutdown m                                    | argin                                                                                                      |               | 3.2  | 3.5    | 3.2     | 3.5               |
| K5.04 | Explosive va                                  | lve operation                                                                                              |               | 3.1  | 3.2    | 3.1     | 3.2               |
| K5.05 | Accumulator                                   | operation: Plant-Specific                                                                                  |               | 2.5* | 2.5    | 2.5     | 2.5               |
| K5.06 | Tank level m                                  | leasurement                                                                                                |               | 3.0  | 3.2    | 3.0     | 3.2               |
| K5.07 | Tank heater                                   | operation                                                                                                  |               | 2.7  | 2.9    | 2.7     | 2.9               |
| K6    | Knowledge of<br>following will<br>CONTROL S   | f the effect that a loss or malfunction of the<br>have on the STANDBY LIQUID<br>SYSTEM:                    | (41.7 / 45.7) |      |        |         |                   |
| K6.01 | Plant air syst                                | ems: Plant-Specific                                                                                        |               | 2.4* | 2.4*   | 2.4     | 2.4               |
| K6.02 | Demineraliz                                   | ed water storage system                                                                                    |               | 1.9* | 2.0*   | 1.9     | 2.0               |
| K6.03 | A.C. power                                    |                                                                                                            |               | 3.2  | 3.3    | 3.2     | 3.3               |
| K6.04 | Core spray s                                  | ystem: Plant-Specific                                                                                      |               | 2.7* | 2.8*   | 2.7     | 2.8               |
| K6.05 | HPCI system                                   | Plant-Specific                                                                                             |               | 2.7* | 2.7*   | 2.7     | 2.7               |
| Al    | Ability to pre<br>associated wit<br>CONTROL S | dict and/or monitor changes in parameters<br>th operating the STANDBY LIQUID<br>SYSTEM controls including: | (41.5 / 45.5) |      |        |         | ļ                 |
| A1.01 | Tank level                                    | 6                                                                                                          |               | 3.6  | 3.7    | 3.6     | 3.7               |
| A1.02 | Explosive va                                  | alve indication                                                                                            |               | 3.8  | 3.9    | 3.8     | 3.9               |
| A1.03 | Pump discha                                   | arge pressure                                                                                              |               | 3.6  | 3.6    | 3.6     | 3.6               |
| A1.04 | Valve operat                                  | tions                                                                                                      |               | 3.6  | 3.7    | 3.6     | 3.7               |
| A1.05 | Pump amps:                                    | Plant-Specific                                                                                             |               | 2.7* | 2.8*   | 2.7     | 2.8               |
| A1.06 | Flow indicat                                  | ion: Plant-Specific                                                                                        |               | 3.8  | 3.9    | 3.8     | 3.9               |
| A1.07 | Reactor pow                                   | /er                                                                                                        |               | 4.3* | 4.4*   | 4.3     | 4.4               |
| A1.08 | RWCU syste                                    | em lineup                                                                                                  |               | 3.7  | 3.8    | 3.7     | 3.8               |
| A1.09 | SBLC syster                                   | m lineup                                                                                                   |               | 4.0* | 4.1    | 4.0     | 4.1               |
| A1.10 | Lights and a                                  | larms                                                                                                      |               | 3.7  | 3.7    | 3.7     | 3.7               |

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|       | Facility: CPS                |                                          |                         | Printed: 08/11/2006 |             |           |            |
|-------|------------------------------|------------------------------------------|-------------------------|---------------------|-------------|-----------|------------|
|       | System Number:               | 211000                                   |                         |                     |             |           |            |
|       | System Name                  | Standby Liquid Control System            |                         | NRC                 | Imp         | Facili    | tv Imn     |
|       | Distan Same                  | Standby Erquite Connor System            | CFR                     | RO                  | SRO         | RO        | SRO        |
| A2    | Ability to (a) pred          | dict the impacts of the following on the | (41.5 / 45.6)           |                     |             |           |            |
|       | STANDBY LIQU                 | JID CONTROL SYSTEM; and (b)              |                         |                     |             |           |            |
|       | based on those pr            | edictions, use procedures to correct,    |                         |                     |             |           |            |
|       | control, or mitiga           | te the consequences of those abnormal    |                         |                     |             |           |            |
|       | conditions or ope            | rations:                                 |                         |                     | 2.0*        |           | 2.0        |
| A2.01 | Pump trip                    |                                          |                         | 3.5                 | 3.8*        | 3.5       | 3.8        |
| A2.02 | Failure of explos            | sive valve to fire                       |                         | 3.6                 | 3.9*        | 3.6       | 3.9        |
| A2.03 | A.C. power failu             | ires                                     |                         | 3.2                 | 3.4*        | 3.2       | 3.4        |
| A2.04 | Inadequate syste             | em flow                                  |                         | 3.1*                | 3.4*        | 3.1       | 3.4        |
| A2.05 | Loss of SBLC ta              | ink heaters                              |                         | 3.1                 | 3.4         | 3.1       | 3.4        |
| A2.06 | Valve openings               |                                          |                         | 3.1                 | 3.3         | 3.1       | 3.3        |
| A2.07 | Valve closures               |                                          |                         | 2.9                 | 3.2         | 2.9       | 3.2        |
| A2.08 | Failure to SCRA              | M                                        |                         | 4.1*                | 4.2*        | 4.1       | 4,2        |
| A3    | Ability to monito            | r automatic operations of the STANDBY    | ¥ (41.7 / 45.7)         |                     |             |           |            |
| 42.01 |                              | CUL SYSTEM including:                    |                         | 2.5                 | 25          | 2.5       | 25         |
| A3.01 | Pump discharge               | pressure: Plant-Specific                 |                         | 3.5                 | 3.3<br>2.0  | 2.0       | 3.5        |
| A3.02 | Tank level: Plan             | I-Specific                               |                         | 3.9                 | 3.7         | 3.9       | 3.9<br>2 9 |
| A3.03 | Explosive valves             | s indicating lights: Plant-Specific      |                         | 5.0<br>1.2*         | Э.0<br>Л Л* | J.0<br>47 | 5.0        |
| A3.04 | Final First First            | Plant-Specific                           |                         | 4.5                 | 4.4         | 4.5       | 4.4        |
| A3.05 | Plow indication:             | Plant-Specific                           |                         | 4.0*                | 4.2<br>1 1* | 4.1       | 4.2        |
| \3.00 | KWCU system i                | Solation: Flant-Specific                 |                         | 4.0                 | 3.6         | 37        | -4.1       |
| A3.07 | Lights and alarm             | Blant Specific                           |                         | <br>10*             | <br>1.0*    | 12        | 3.0<br>1 D |
| A3.08 | <del>System initiation</del> | - riang-specific                         |                         | 7.2                 | 7.2         | 4.2       | 4.2        |
| A4    | Ability to manua             | lly operate and/or monitor in the contro | l (41.7 / 45.5 to 45.8) |                     |             |           |            |
|       | room:                        |                                          |                         | • •                 | • •         |           |            |
| A4.01 | Tank level                   |                                          |                         | 3.9                 | 3.9         | 3.9       | 3.9        |
| A4.02 | SBLC control sv              | vitch                                    |                         | 4.2*                | 4.2*        | 4.2       | 4.2        |
| A4.03 | Explosive valve              | s firing circuit status                  |                         | 4.1                 | 4.1         | 4.1       | 4.1        |
| A4.04 | Reactor power                |                                          |                         | 4.5*                | 4.6*        | 4.5       | 4.6        |
| A4.05 | Flow indication:             | Plant-Specific                           |                         | 4.1*                | 4.0         | 4.1       | 4.0        |
| A4.06 | RWCU system i                | solation                                 |                         | 3.9*                | 3.9         | 3.9       | 3.9        |
| A4.07 | Lights and alarn             | 18                                       |                         | 3.6                 | 3.6         | 3.6       | 3.6        |
| A4.08 | System initiation            | n: Plant-Specific                        |                         | 4.2*                | 4.2*        | 4.2       | 4.2        |

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|----------------|--------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------|------------|------------|------------|--------|
|                | System Number:                             | 212000                                                                               |                                  |            |            |            |        |
|                | System Name:                               | Reactor Protection System                                                            |                                  | NRC        | Imp        | Facili     | ty Imp |
|                | <u></u>                                    |                                                                                      | CFR                              | RO         | SRO        | RO         | SRO    |
| K1             | Knowledge of t<br>effect relations         | he physical connections and/or cause-<br>hips between REACTOR PROTECTION             | (41.2 to 41.9 / 45.7 to<br>45.8) |            |            |            |        |
| <b>V101</b>    | SYSTEM and t                               | he following:                                                                        |                                  | 27         | 3.0        | 37         | 3.0    |
| K1.01          | Nuclear instru                             |                                                                                      |                                  | 27         | 2.9        | 3.7        | 3.9    |
| K1.02          | Nuclear boller                             |                                                                                      |                                  | 3.7        | 3.5        | 3.7        | 3.5    |
| K1.03          | Recirculation                              | system                                                                               |                                  | 2.4        | 3.0        | 3.4<br>3.4 | 3.0    |
| K1.04          | A.C. electrical                            |                                                                                      |                                  | 2.4        | 3.6        | 3.4        | 3.0    |
| K1.05          | Process radiati                            | ion monitoring system                                                                |                                  | 2.5<br>2.5 | 3.0        | 3.5        | 3.0    |
| K1.00          | Control rod dr<br>$\mathbf{D} = 1$         | ive hydraulic system                                                                 |                                  | 2.2        | 3.0        | 3.5        | 3.0    |
| K1.07          | Centrel and an                             | dives (low-low-set logic): Flam-specific                                             |                                  | 3.5        | 3.5        | 3.0        | 3.1    |
| K1.08          | Control rod an                             | a anve mechanisin                                                                    |                                  | 2.0        | 5.1<br>2.4 | 2.0        | 24     |
| K1.09          | Main turking                               | lier                                                                                 |                                  | 3.2        | 2.4<br>3.4 | 3.2        | 34     |
| КІ.10<br>КІ 11 | Condenser vor                              |                                                                                      |                                  | 3.2        | 3.5        | 3.2        | 35     |
| NI.11          | Deastor/turbin                             | a prosente control system: Plant Specific                                            |                                  | 3.4        | 3.6        | 3.4        | 3.6    |
| KI.12<br>K1 12 | Containment r                              | e pressure control system. Fram-spectric                                             |                                  | 3.4        | 3.6        | 35         | 3.6    |
| NI.13          | Containment p                              | nessure                                                                              |                                  | 3.6        | 3.0        | 3.6        | 3.0    |
| K1.14<br>K1.15 | SCRAM air h                                | eader pressure                                                                       |                                  | 3.8        | 3.9        | 3.8        | 3.9    |
| К2             | Knowledge of e                             | electrical power supplies to the following:                                          | (41.7)                           |            |            |            |        |
| K2.01          | RPS motor-ger                              | erator sets                                                                          |                                  | 3.2        | 3.3        | 3.2        | 3.3    |
| \$2.02         | Analog trip sy                             | stem logic cabinets                                                                  |                                  | 2.7        | 2.9        | 2.7        | 2.9    |
| К3             | Knowledge of t<br>REACTOR PR<br>following: | he effect that a loss or malfunction of the<br>OTECTION SYSTEM will have on          | (41.7 / 45.4)                    |            |            |            |        |
| K3 01          | Process radiat                             | ion monitoring                                                                       |                                  | 3.0        | 3.2        | 3.0        | 3.2    |
| K3.02          | Primary conta<br>shut-off: Plant           | inment isolation system/nuclear steam supply<br>-Specific                            |                                  | 3.7        | 3.9        | 3.7        | 3.9    |
| K3.03          | Local power r                              | ange monitoring system: Plant-Specific                                               |                                  | 3.3        | 3.4        | 3.3        | 3.4    |
| K3.04          | Average powe                               | r range monitoring system: Plant-Specific                                            |                                  | 3.5        | 3.6        | 3.5        | 3.6    |
| K3.05          | RPS logic cha                              | nnels                                                                                |                                  | 3.7        | 3.8        | 3.7        | 3.8    |
| K3.06          | Scram air head                             | der solenoid operated valves                                                         |                                  | 4.0        | 4.1        | 4.0        | 4.1    |
| K3.07          | Reactor power                              | r (thermal heat flux)                                                                |                                  | 3.8        | 3.9        | 3.8        | 3.9    |
| K3.08          | Reactor coola                              | nt primary system integrity                                                          |                                  | 3.6        | 3.8        | 3.6        | 3.8    |
| K3.09          | The magnitud containment d                 | e of heat energy that must be absorbed by the<br>uring accident/transient conditions |                                  | 3.2        | 3.6        | 3.2        | 3.6    |
| K3.10          | The ability of core cooling d              | the core cooling systems to provide adequate<br>uring loss of coolant accidents      |                                  | 3.5        | 3.9        | 3.5        | 3.9    |
| K3.11          | Recirculation                              | system                                                                               |                                  | 3.0        | 3.3        | 3.0        | 3.3    |
| K3.12          | Secondary con                              | ntainment integrity                                                                  |                                  | 3.2        | 3.3        | 3.2        | 3.3    |

|       | Facility: CPS                                                                                                   |                            | Printed: 08/11/2006 |     |               |      |  |  |
|-------|-----------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|-----|---------------|------|--|--|
|       | System Number: 212000                                                                                           |                            |                     |     |               |      |  |  |
|       | System Name: Reactor Protection System                                                                          |                            | NRC                 | Imp | <u>Facili</u> | ty I |  |  |
|       |                                                                                                                 | CFR                        | RO                  | SRO | RO            | 5. J |  |  |
| K4    | Knowledge of REACTOR PROTECTION SYSTE<br>design feature(s) and/or interlocks which provide fo<br>following:     | M (41.7)<br>or the         |                     |     |               |      |  |  |
| K4.01 | System redundancy and reliability                                                                               |                            | 3.4                 | 3.6 | 3.4           | 3.6  |  |  |
| K4.02 | The prevention of a reactor SCRAM following a sing component failure                                            | gle                        | 3.5                 | 3.7 | 3.5           | 3.7  |  |  |
| K4.03 | The prevention of supplying power to a given RPS b from multiple sources simultaneously                         | us                         | 3.0*                | 3.1 | 3.0           | 3.1  |  |  |
| K4.04 | The prevention of supplying both RPS buses<br>simultaneously from the alternate power source:<br>Plant-Specific |                            | 3.1                 | 3.1 | 3.1           | 3.1  |  |  |
| K4.05 | Functional testing of the system while maintaining p operation                                                  | ower                       | 3.4                 | 3.6 | 3.4           | 3.6  |  |  |
| K4.06 | Select rod insertion: Plant-Specific                                                                            |                            | 3.0                 | 3.0 | 3.0           | 3.0  |  |  |
| K4.07 | Manual system activation (trip)                                                                                 |                            | 4.1*                | 4.1 | 4.1           | 4.1  |  |  |
| K4.08 | Complete control rod insertion following SCRAM signation                                                        | gnal                       | 4.2*                | 4.2 | 4.2           | 4.2  |  |  |
| K4.09 | Control rod insertion following RPS system electrica<br>failure                                                 | d.                         | 3.8*                | 3.9 | 3.8           | 3.9  |  |  |
| K4.10 | Individual rod SCRAM testing                                                                                    |                            | 3.3                 | 3.6 | 3.3           | 3.6  |  |  |
| K4.11 | Operation with shorting links removed: Plant-Specif                                                             | ic                         | 3.3                 | 3.5 | 3.3           | 3.5  |  |  |
| K4.12 | Bypassing of selected SCRAM signals (manually an automatically): Plant-Specific                                 | d                          | 3.9                 | 4.1 | 3.9           | 4.1  |  |  |
| К5    | Knowledge of the operational implications of the following concepts as they apply to REACTOR PROTECTION SYSTEM: | (41.5 / 45.3)              |                     |     |               |      |  |  |
| K5.01 | Fuel thermal time constant                                                                                      |                            | 2.7                 | 2.9 | 2.7           | 2.9  |  |  |
| K5.02 | Specific logic arrangements                                                                                     |                            | 3.3                 | 3.4 | 3.3           | 3.4  |  |  |
| K6    | Knowledge of the effect that a loss or malfunction of following will have on the REACTOR PROTECTI-<br>SYSTEM:   | of the (41.7 / 45.7)<br>ON |                     |     |               |      |  |  |
| K6.01 | A.C. electrical distribution                                                                                    |                            | 3.6                 | 3.8 | 3.6           | 3.8  |  |  |
| K6.02 | Nuclear instrumentation                                                                                         |                            | 3.7                 | 3.9 | 3.7           | 3.9  |  |  |
| K6.03 | Nuclear boiler instrumentation                                                                                  |                            | 3.5                 | 3.7 | 3.5           | 3.7  |  |  |
| K6.04 | D.C. electrical distribution                                                                                    |                            | 2.8                 | 3.1 | 2.8           | 3.1  |  |  |
| K6.05 | RPS sensor inputs                                                                                               |                            | 3.5                 | 3.8 | 3.5           | 3.8  |  |  |

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| t inneo. | 00/11/2000 |

|        | Facility: CPS                                       |                                                                                                                               | Printed: 08/11/2006 |     |            |      |               |        |
|--------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------------|------|---------------|--------|
|        | System Number:                                      | 212000                                                                                                                        |                     |     |            |      |               |        |
|        | System Name:                                        | <b>Reactor Protection System</b>                                                                                              |                     |     | <u>NRC</u> | lmp  | <u>Facili</u> | ty Imp |
| *      |                                                     |                                                                                                                               |                     | CFR | RO         | SRO  | RO            | SRO    |
| A1     | Ability to predi<br>associated with<br>SYSTEM contr | ct and/or monitor changes in parameters<br>operating the REACTOR PROTECTION<br>cols including:                                | (41.5 / 45.5)       |     |            |      |               |        |
| A1.01  | RPS-motor-gen                                       | erator output voltage                                                                                                         |                     |     | 2.8*       | 2.9  | 2.8           | 2.9    |
| A1.02  | RPS motor-gen                                       | erator-output amps                                                                                                            |                     |     | 2.8*       | 2.9  | 2.8           | 2.9    |
| A1.03  | RPS-motor-gen                                       | erator output frequency: Plant-Specific                                                                                       |                     |     | 2.4*       | 2.5  | 2.4           | 2.5    |
| A1.04  | RPS bus voltas                                      | pe: Plant-Specific                                                                                                            |                     |     | 2.8*       | 3.0  | 2.8           | 3.0    |
| A1.05  | RPS bus freque                                      | ency: Plant-Specific                                                                                                          |                     |     | 2.6*       | 2.7  | 2.6           | 2.7    |
| A1.06  | Reactor nower                                       |                                                                                                                               |                     |     | 4.2*       | 4.2* | 4.2           | 4.2    |
| A1 07  | Rod position in                                     | nformation                                                                                                                    |                     |     | 3.4        | 3.4  | 3.4           | 3.4    |
| A1 08  | Valve position                                      |                                                                                                                               |                     |     | 3.4        | 3.4  | 3.4           | 3.4    |
| A1 09  | Individual relay                                    | ctatus: Plant-Specific                                                                                                        |                     |     | 2.7        | 3.0  | 2.7           | 3.0    |
| A1 10  | Process compu                                       | iter                                                                                                                          |                     |     | 2.2*       | 2.4* | 2.2           | 24     |
| A1 11  | System status 1                                     | lights and alarms                                                                                                             |                     |     | 3.4        | 3.3  | 3.4           | 33     |
|        | REACTOR PR<br>those prediction<br>mitigate the cor  | OTECTION SYSTEM; and (b) based on<br>1s, use procedures to correct, control, or<br>1sequences of those abnormal conditions or |                     |     |            |      |               |        |
|        | mitigate the cor                                    | isequences of those abnormal conditions of                                                                                    |                     |     |            |      |               |        |
| A 2 01 | DDS motor-oon                                       | orotor set failure                                                                                                            |                     |     | 37         | 3 Q  | 37            | 3.0    |
| A2.01  | RPS hus nowe                                        | r supply failure                                                                                                              |                     |     | 37         | 3.9  | 37            | 3.9    |
| -A2.02 | Surveillance te                                     |                                                                                                                               |                     |     | 33         | 35   | 33            | 3.5    |
| A2.05  | Nuclear instru                                      | nent system failure                                                                                                           |                     |     | 3.5        | 37   | 3.5           | 37     |
| Δ2.04  | Nuclear hoiler                                      | instrument system failure                                                                                                     |                     |     | 34         | 37   | 34            | 37     |
| A2.05  | High reactor p                                      | ower                                                                                                                          |                     |     | 4.1*       | 4.2* | 4.1           | 4.2    |
| A2 07  | High reactor p                                      | recoure                                                                                                                       |                     |     | 4.1*       | 4.2* | 4.1           | 4.2    |
| A2 08  | Low reactor le                                      | vel                                                                                                                           |                     |     | 4.1*       | 4.2* | 4.1           | 4.2    |
| A2.00  | High containm                                       | ent/drywell pressure                                                                                                          |                     |     | 4.1*       | 4.3* | 4.1           | 4.3    |
| A2 10  | Reactor/turbin                                      | e pressure control system low pressure:                                                                                       |                     |     | 3.6        | 3.8  | 3.6           | 3.8    |
| /12:10 | Plant-Specific                                      |                                                                                                                               |                     |     |            |      | - • •         |        |
| A2.11  | Main steamline                                      | e isolation valve closure                                                                                                     |                     |     | 4.0        | 4.1  | 4.0           | 4.1    |
| A2.12  | Main turbine s                                      | top control valve closure                                                                                                     |                     |     | 4.0        | 4.1* | 4.0           | 4.1    |
| A2.13  | Low condense                                        | r vacuum: Plant-Specific                                                                                                      |                     |     | 3.8        | 3.9* | 3.8           | 3.9    |
| A2.14  | High SCRAM                                          | instrument volume water level                                                                                                 |                     |     | 3.9        | 4.0  | 3.9           | 4.0    |
| A2.15  | Load rejection                                      |                                                                                                                               |                     |     | 3.7        | 3.8  | 3.7           | 3.8    |
| A2.16  | Changing mod                                        | le switch position                                                                                                            |                     |     | 4.0        | 4.1  | 4.0           | 4.1    |
| A2.17  | Main steamlin                                       | e high radiation                                                                                                              |                     |     | 4.0        | 4.2* | 4.0           | 4.2    |
| A2.18  | <b>†SCRAM</b> air l                                 | neader low pressure                                                                                                           |                     |     | 3.8        | 3.9  | 3.8           | 3.9    |
| A2.19  | Partial system a                                    | activation (half-SCRAM)                                                                                                       |                     |     | 3.8        | 3.9  | 3.8           | 3.9    |
| A2.20  | Full system ac                                      | tivation (full-SCRAM)                                                                                                         |                     |     | 4.1*       | 4.2* | 4.1           | 4.2    |
| A2.21  | <b>#Failure of indi</b>                             | vidual relays to reposition: Plant-Specific                                                                                   |                     |     | 3.6        | 3.9  | 3.6           | 3.9    |
|        | 1                                                   |                                                                                                                               |                     |     |            |      |               |        |
| Facility: CPS |                                                                                                   |              |      | Printe | d: 08/1 | 1/2006     |
|---------------|---------------------------------------------------------------------------------------------------|--------------|------|--------|---------|------------|
|               | System Number: 212000                                                                             |              |      |        |         |            |
|               | System Name: Reactor Protection System                                                            |              | NRC  | Imn    | Facili  | tv I       |
|               |                                                                                                   | CFR          | RO   | SRO    | RO      | <u>s</u> . |
| A3            | Ability to monitor automatic operations of the REACTOR (41.7 / 45<br>PROTECTION SYSTEM including: | 5.7)         |      |        |         |            |
| A3.01         | Reactor power                                                                                     |              | 4.4* | 4.4*   | 4.4     | 4.4        |
| A3.02         | Individual system relay status: Plant Specific                                                    |              | 3.2  | 3.5    | 3.2     | 3.5        |
| A3.03         | Rod position                                                                                      |              | 4.2* | 4.2*   | 4.2     | 4.2        |
| A3.04         | System status lights and alarms                                                                   |              | 3.9* | 3.8    | 3.9     | 3.8        |
| A3.05         | SCRAM instrument volume level                                                                     |              | 3.9  | 3.9    | 3.9     | 3.9        |
| A3.06         | Main turbine trip: Plant-Specific                                                                 |              | 4.2* | 4.2*   | 4.2     | 4.2        |
| A3.07         | SCRAM air header pressure                                                                         |              | 3.6  | 3.6    | 3.6     | 3.6        |
| A3.08         | Recirculation pump trip                                                                           |              | 3.7  | 3.7    | 3.7     | 3.7        |
| A4            | Ability to manually operate and/or monitor in the control (41.7 / 45 room:                        | 5.5 to 45.8) |      |        |         |            |
| A4.01         | Provide manual SCRAM signal(s)                                                                    |              | 4.6* | 4.6*   | 4.6     | 4.6        |
| A4.02         | Perform system functional test(s)                                                                 |              | 3.6  | 3.7    | 3.6     | 3.7        |
| A4.03         | Provide manual select rod insertion: Plant-Specific                                               |              | 3.9  | 3.9    | 3.9     | 3.9        |
| A4.04         | Bypass SCRAM instrument volume high level SCRAM signal                                            |              | 3.9  | 3.9    | 3.9     | 3.9        |
| A4.05         | Reactor power                                                                                     |              | 4.3* | 4.3*   | 4.3     | 4.3        |
| A4.06         | Control rod position                                                                              |              | 4.2* | 4.1*   | 4.2     | 4.1        |
| A4.07         | System status lights and alarms                                                                   |              | 4.0* | 3.9*   | 4.0     | 3.9        |
| A4.08         | Individual system relay status: Plant-Specific                                                    |              | 3.4  | 3.4    | 3.4     | 2          |
| A4.09         | SCRAM instrument volume level                                                                     |              | 3.9  | 3.8    | 3.9     | 3.0        |
| A4.10         | Main turbine trip: Plant-Specific                                                                 |              | 4.1  | 4.0    | 4.1     | 4.0        |
| A4.11         | SCRAM air header pressure                                                                         |              | 3.7  | 3.7    | 3.7     | 3.7        |
| A4.12         | Close/open SCRAM instrument volume vent and/or drain valves                                       |              | 3.9  | 3.9    | 3.9     | 3.9        |
| A4.13         | †Perform individual control rod SCRAM testing                                                     |              | 3.4  | 3.6    | 3.4     | 3.6        |
| A4.14         | Reset system following system activation                                                          |              | 3.8  | 3.8    | 3.8     | 3.8        |
| A4.15         | Recirculation pump trip/EOC RPT                                                                   |              | 3.9  | 3.8    | 3.9     | 3.8        |
| A4.16         | Manually activate anticipated transient without SCRAM<br>circuitry/RRCS: Plant-Specific           |              | 4.4* | 4.4*   | 4.4     | 4.4        |
| A4.17         | Perform alternate reactivity/ shutdown operations                                                 |              | 4.1  | 4.1    | 4.1     | 4.1        |

J

| System Number:   2 14000     System Name:   Rol Position Information System   CFR   RO   SRO   RO   SRO     K1   Knowledge of the physical connections and/or cause-<br>offeer relationships between ROD POSITION<br>INFORMATION SYSTEM and the following:   (41.2 to 41.9 / 45.7 to<br>45.8)   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                              |                | Facility: CPS                                                                                                           |                                  |           | Printe | ed: 08/1  | 1/2006 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------|--------|-----------|--------|
| System Name:   Rod Position Information System   CFR   RO   SRO   RO   SRO     K1   Knowledge of the physical connections and/or cause-<br>inter relationships between ROD POSTITION<br>INFORMATION SYSTEM and the following:   (41.2 to 11.9 / 45.7 to<br>45.8)   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                                           |                | System Number: 214000                                                                                                   |                                  |           |        |           |        |
| CFR   RO   SRO   RO   SRO   RO   SRO     K1   Knowledge of the physical connections and/or cause-<br>effect relationships between ROD POSITION   45.8)   50   3.0   3.2   3.0   3.2   3.0   3.2   3.0   3.2   3.0   3.2   3.0   3.2   3.0   3.1   2.9   3.1     K1.01   RCMS: Plant-Specific   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0   3.1   3.0                                                                                                                                                                                                                                                     |                | System Name: Rod Position Information System                                                                            |                                  | NRC       | Imn    | Facili    | tv Imn |
| K1   Knowledge of the physical connections and/or cause-<br>effect relationships between ROD POSITION<br>INFORMATION SYSTEM and the following:   (41.2 to 41.9 / 45.7 to<br>45.8)     K1.01   RWM: Plant-Specific   3.0   3.2   3.0   3.2     K1.02   RECE. Plant-Specific   2.9   3.1   2.9   3.1     K1.03   CRDM   3.0   3.2   3.2   3.2     K1.04   RMGS-Plant-Specific   3.2   3.2   3.2   3.3     K1.05   Full core display: Plant-Specific   3.4   3.4   3.4   3.4     K1.06   RCIS: Plant-Specific   3.4   3.4   3.4   3.4     K1.07   Process computer   2.7   3.0   2.7   3.0     K1.08   CRIDS/RIS/SPDS/GDS: Plant-Specific   3.0   3.1   3.0   3.1     K3.01   Redge of the effect that a loss or malfunction of the<br>ROD POSITION INFORMATION SYSTEM will have on<br>following:   (41.7 / 45.4)   3.0   3.1   3.0   3.1     K3.01   RCIS: Plant-Specific   3.0   3.1   3.2   3.1   3.2     K3                   |                |                                                                                                                         | CFR                              | RO        | SRO    | RO        | SRO    |
| K1011 RNM-Plant-Specific 3.0 3.2 3.0 3.2   K1.01 RNM-Plant-Specific 2.9 3.1 2.9 3.1   K1.03 CRDM 3.0 3.2 3.2 3.2 3.2   K1.03 CRDM 3.0 3.1 3.0 3.1 3.0 3.1   K1.04 RMGS:Plant-Specific 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.6 3.1 3.0 3.1 3.0 3.1 3.0 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K1             | Knowledge of the physical connections and/or cause-<br>effect relationships between ROD POSITION                        | (41.2 to 41.9 / 45.7 to<br>45.8) |           |        |           |        |
| K102 RKS:P Hant-Specific 2.9 3.1 2.9 3.1   K102 RKS:P Hant-Specific 3.0 3.1 3.0 3.1   K104 RKGS:P Hant-Specific 3.2 3.2 3.2 3.2   K105 Full core display: Plant-Specific 3.3 3.3 3.3 3.3 3.3   K106 RCIS: Plant-Specific 3.4 3.4 3.4 3.4 3.4   K107 Process computer 2.7 3.0 2.7 3.0 2.7 3.0   K108 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.4 2.6 2.4 2.6 2.4 2.6   K3 Knowledge of the effect that a loss or malfunction of the following: (41.7 / 45.4) 3.0 3.1 3.0 3.1   K3.01 RWM-Plant-Specific 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0                                                                                                                                                                                                                                                                                                         | K1 01          | RWM. Plant Specific                                                                                                     |                                  | 3.0       | 32     | 3.0       | 32     |
| R102 R0Cor Hult-Specific 2.9 3.1 2.9 3.1   K103 CRDM 3.0 3.1 3.0 3.1   K104 RMCS: Plant-Specific 3.2 3.2 3.2 3.2   K105 Full core display: Plant-Specific 3.4 3.4 3.4 3.4   K106 RCIS: Plant-Specific 3.4 3.4 3.4 3.4   K107 Process computer 2.7 3.0 2.7 3.0   K108 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.4 2.6 2.4 2.6   K3 Knowledge of the effect that a loss or malfunction of the<br>following: (41.7/45.4) 3.0 3.1 3.0 3.1   K3.02 RSGS: Plant-Specific 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 </td <td>K1.01</td> <td>PSCS: Diant Specific</td> <td></td> <td>2.0</td> <td>3.1</td> <td>2.0</td> <td>3.1</td>                                                                                                                                                                                                 | K1.01          | PSCS: Diant Specific                                                                                                    |                                  | 2.0       | 3.1    | 2.0       | 3.1    |
| R1.03 CKDM 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 <t< td=""><td>K1.02</td><td>CDDM</td><td></td><td>2.9</td><td>3.1</td><td>3.0</td><td>3.1</td></t<>                                                                                                                                                                                                                                                                                                                                                                                 | K1.02          | CDDM                                                                                                                    |                                  | 2.9       | 3.1    | 3.0       | 3.1    |
| R104 Rures-run-openne 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 <td>K1.05</td> <td>RMCS: Blant Specific</td> <td></td> <td>2.0</td> <td>2.1</td> <td>2.0</td> <td>2.1</td>                                                                                                                                                                                                                                                                                                                                                               | K1.05          | RMCS: Blant Specific                                                                                                    |                                  | 2.0       | 2.1    | 2.0       | 2.1    |
| K1.00 Function of the operational implications of the (41.5 / 45.3) 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.2 3.0 3.2 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 <t< td=""><td>K1.04</td><td>Full core diantory Dient Specific</td><td></td><td>3.2</td><td>3.2</td><td>3.2</td><td>3.2</td></t<>                                                                                                                                                                                                                                                                                                       | K1.04          | Full core diantory Dient Specific                                                                                       |                                  | 3.2       | 3.2    | 3.2       | 3.2    |
| N1.00 RCLD. Flath-specific 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K1.05          | Pull core display, Flant-Specific                                                                                       |                                  | 2.4       | 2.1    | 21        | 2.5    |
| K1.07 Friedess computer 2.7 3.0 2.7 3.0   K1.08 CRUDS/ERIS/SPDS/GDS: Plant-Specific 2.4 2.6 2.4 2.6   K3 Knowledge of the effect that a loss or malfunction of the<br>ROD POSITION INFORMATION SYSTEM will have on<br>following: 3.0 3.2 3.0 3.2   K3.01 RWM: Plant-Specific 3.0 3.1 3.0 3.1   K3.02 RSCS: Plant-Specific 3.3 3.3 3.3 3.3   K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.4 2.5                                                                                                                                                                                                                                                                                                                 | K1.00          | Process commuter                                                                                                        |                                  | 3.4<br>77 | 3.4    | 3.4<br>37 | 2.4    |
| K3 Knowledge of the effect that a loss or malfunction of the<br>ROD POSITION INFORMATION SYSTEM will have on<br>following: (41.7 / 45.4)   K3.01 RWM:-Plant-Specific 3.0 3.2 3.0 3.2   K3.02 RSGS: Plant-Specific 3.0 3.1 3.0 3.1   K3.03 RMGS: Plant-Specific 3.1 3.2 3.1 3.0 3.1   K3.03 RMGS: Plant-Specific 3.3 3.3 3.3 3.3 3.3   K3.05 Process computer 2.3 2.6 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION<br>SYSTEM design feature(s) and/or interlocks which<br>provide for the following: 3.0 3.1 3.0 3.1   K4.01 Reed switch locations 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5   K5 Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM: (41.5 / 45.3) 3.0 3.1 3.0 3.1   K6 Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM: 2.5 2.6 2.5 2.6< | K1.07<br>K1.08 | CRIDS/ERIS/SPDS/GDS: Plant-Specific                                                                                     |                                  | 2.4       | 2.6    | 2.4       | 2.6    |
| following: 3.0 3.2 3.0 3.2   K3.01 RWM: Plant-Specific 3.0 3.1 3.0 3.1   K3.03 RMCS: Plant-Specific 3.1 3.2 3.1 3.2   K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3   K3.05 Process computer 2.3 2.6 2.3 2.6   K3.06 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.3* 2.5 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION (41.7) SYSTEM design feature(s) and/or interlocks which provide for the following: 3.0 3.1 3.0 3.1   K4.01 Reed switch locations 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5   K5 Knowledge of the operational implications of the following concepts as they apply to ROD POSITION INFORMATION SYSTEM: 2.7 2.8 2.7 2.8   K6 Knowledge of the effect that a loss or malfunction of the following will have on the ROD POSITION INFORMATION SYSTEM: 2.5 2.6 2.5 2.6   K6.01 A.C. electrical power 2.5                                                                                               | КЗ             | Knowledge of the effect that a loss or malfunction of<br>ROD POSITION INFORMATION SYSTEM will ha                        | the (41.7 / 45.4)<br>ive on      |           |        |           |        |
| K3.01 RWM: Plant-Specific 3.0 3.2 3.0 3.2   K3.02 RSCS: Plant-Specific 3.0 3.1 3.2 3.0 3.1   K3.03 RMCS: Plant-Specific 3.1 3.2 3.1 3.2 3.1 3.2   K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3 3.3   K3.05 Process computer 2.3 2.6 2.3 2.6 2.3 2.6   K3.06 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.3 2.6 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION (41.7) SYSTEM design feature(s) and/or interlocks which provide for the following: 3.0 3.1 3.0 3.1   K4.01 Reed switch locations 3.0 3.1 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5 2.5 2.5   K5 Knowledge of the operational implications of the following concepts as they apply to ROD POSITION INFORMATION SYSTEM: 2.7 2.8 2.7 2.8   K6 Knowledge of the effect that a loss or malfunction of the following will have                                                                                                                                  |                | following:                                                                                                              |                                  | 2.0       |        |           |        |
| K3.02 RMCS: Plant-Specific 3.0 3.1 3.0 3.1   K3.03 RMCS: Plant-Specific 3.3 3.3 3.3 3.3   K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3   K3.05 Process computer 2.3 2.6 2.3 2.6   K3.06 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.3* 2.5 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION system (41.7) (41.7) (41.7)   SYSTEM design feature(s) and/or interlocks which provide for the following: 3.0 3.1 3.0 3.1   K4.01 Reed switch locations 3.0 3.1 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5 2.5 2.5   K5 Knowledge of the operational implications of the following concepts as they apply to ROD POSITION INFORMATION SYSTEM: (41.5 / 45.3) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                           | K3.01          | RWM: Plant-Specific                                                                                                     |                                  | 3.0       | 3.2    | 3.0       | 3.2    |
| K3.03 RMCS: Plant-Specific 3.1 3.2 3.1 3.2   K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3 3.3   K3.05 Process computer 2.3 2.6 2.3 2.6 2.3 2.6   K3.06 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.3 2.6 2.3 2.5 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION provide for the following: (41.7) 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1   K4.01 Reed switch locations 3.0 3.1 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5 2.5   K5 Knowledge of the operational implications of the following concepts as they apply to ROD POSITION INFORMATION SYSTEM: 2.7 2.8 2.7 2.8   K6 Knowledge of the effect that a loss or malfunction of the following will have on the ROD POSITION INFORMATION SYSTEM: 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6                                                                                                                                                                    | K3.02          | RSCS: Plant-Specific                                                                                                    |                                  | 3.0       | 3.1    | 3.0       | 3.1    |
| K3.04 RCIS: Plant-Specific 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 2.3 2.6 2.3 2.6 2.3 2.6 2.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K3.03          | RMCS: Plant-Specific                                                                                                    |                                  | 3.1       | 3.2    | 3.1       | 3.2    |
| K3.05Process computer2.32.62.32.6K3.06CRIDS/ERIS/SPDS/GDS: Plant-Specific2.3*2.52.32.5K4Knowledge of ROD POSITION INFORMATION<br>provide for the following:<br>K4.01(41.7)(41.7)SYSTEM design feature(s) and/or interlocks which<br>provide for the following:<br>tk4.023.03.13.03.1K4.01Reed switch locations3.03.13.03.13.03.1K4.02Thermocouple2.5*2.52.52.52.5K5Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM:<br>K5.012.72.82.72.8K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM:<br>K6.012.52.62.52.52.6K6.01A.C. electrical power<br>K6.022.72.72.72.72.72.72.72.7                                                                                                                                                                                            | K3.04          | RCIS: Plant-Specific                                                                                                    |                                  | 3.3       | 3.3    | 3.3       | 3.3    |
| K3.06 CRIDS/ERIS/SPDS/GDS: Plant-Specific 2.3* 2.5 2.3 2.5   K4 Knowledge of ROD POSITION INFORMATION<br>SYSTEM design feature(s) and/or interlocks which<br>provide for the following: (41.7)   K4.01 Reed switch locations 3.0 3.1 3.0 3.1   K4.02 Thermocouple 2.5* 2.5 2.5 2.5   K5 Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM: (41.5 / 45.3) 2.7 2.8 2.7 2.8   K6 Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM: (41.7 / 45.7) 2.5 2.6 2.5 2.6   K6.01 A.C. electrical power 2.5 2.6 2.5 2.6 2.7 2.7 2.7                                                                                                                                                                                                                                                     | K3.05          | Process computer                                                                                                        |                                  | 2.3       | 2.6    | 2.3       | 2.6    |
| K4Knowledge of ROD POSITION INFORMATION<br>SYSTEM design feature(s) and/or interlocks which<br>provide for the following:(41.7)K4.01Reed switch locations3.03.13.03.1K4.02Thermocouple2.5*2.52.52.5K5Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM:(41.5 / 45.3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K3.06          | CRIDS/ERIS/SPDS/GDS: Plant-Specific                                                                                     |                                  | 2.3*      | 2.5    | 2.3       | 2.5    |
| K4.01Reed switch locations3.03.13.03.1K4.02Thermocouple2.5*2.52.52.5K5Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM:(41.5 / 45.3)2.72.82.72.8K6Knowledge of the effect that a loss or malfunction of the<br>INFORMATION SYSTEM:(41.7 / 45.7)<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM:2.52.62.52.5K6.01A.C. electrical power2.52.62.52.6K6.02Position indication probe2.72.72.72.7                                                                                                                                                                                                                                                                                                                                                                                                                                        | K4             | Knowledge of ROD POSITION INFORMATION<br>SYSTEM design feature(s) and/or interlocks which<br>provide for the following: | (41.7)                           |           |        |           |        |
| K4.02Thermocouple2.5*2.52.52.5K5Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM:(41.5 / 45.3)2.72.82.72.8K5.01Reed switches2.72.82.72.82.72.8K6Knowledge of the effect that a loss or malfunction of the<br>INFORMATION SYSTEM:(41.7 / 45.7)2.52.62.52.6K6.01A.C. electrical power2.52.62.52.62.52.6K6.02Position indication probe2.72.72.72.72.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | K4.01          | Reed switch locations                                                                                                   |                                  | 3.0       | 3.1    | 3.0       | 3.1    |
| K5Knowledge of the operational implications of the<br>following concepts as they apply to ROD POSITION<br>INFORMATION SYSTEM:(41.5 / 45.3)K5.01Reed switches2.72.82.72.8K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM:(41.7 / 45.7)5.52.62.52.6K6.01A.C. electrical power2.52.62.52.62.52.6K6.02Position indication probe2.72.72.72.72.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | K4.02          | Thermocouple                                                                                                            |                                  | 2.5*      | 2.5    | 2.5       | 2.5    |
| K5.01Reed switches2.72.82.72.8K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM:(41.7 / 45.7)2.52.62.52.6K6.01A.C. electrical power2.52.62.52.62.52.6K6.02Position indication probe2.72.72.72.72.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | К5             | Knowledge of the operational implications of the following concepts as they apply to ROD POSITION INFORMATION SYSTEM:   | (41.5 / 45.3)                    |           |        |           |        |
| K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM:(41.7 / 45.7)K6.01A.C. electrical power2.52.62.52.6K6.02Position indication probe2.72.72.72.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K5.01          | Reed switches                                                                                                           |                                  | 2.7       | 2.8    | 2.7       | 2.8    |
| K6.01   A.C. electrical power   2.5   2.6   2.5   2.6     K6.02   Position indication probe   2.7   2.7   2.7   2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K6             | Knowledge of the effect that a loss or malfunction of<br>following will have on the ROD POSITION<br>INFORMATION SYSTEM: | the (41.7 / 45.7)                |           |        |           |        |
| K6.02   Position indication probe   2.7   2.7   2.7   2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K6.01          | A.C. electrical power                                                                                                   |                                  | 2.5       | 2.6    | 2.5       | 2.6    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K6.02          | Position indication probe                                                                                               |                                  | 2.7       | 2.7    | 2.7       | 2.7    |

|       | Facility: CPS                                                                                                                                                                                                                                            |                       |      | Printe | ed: 08/1      | 1/2006 |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|--------|---------------|--------|
|       | System Number: 214000                                                                                                                                                                                                                                    |                       |      |        |               |        |
|       | System Name: Rod Position Information System                                                                                                                                                                                                             |                       | NRC  | Imp    | <u>Facili</u> | ty I   |
|       |                                                                                                                                                                                                                                                          | CFR                   | RO   | SRO    | RO            | 8. 2   |
| A2    | Ability to (a) predict the impacts of the following on the<br>ROD POSITION INFORMATION SYSTEM; and (b)<br>based on those predictions, use procedures to correct,<br>control, or mitigate the consequences of those abnormal<br>conditions or operations: | (41.5 / 45.6)         |      |        |               |        |
| A2.01 | Failed reed switches                                                                                                                                                                                                                                     |                       | 3.1  | 3.3    | 3.1           | 3.3    |
| A2.02 | Reactor scram                                                                                                                                                                                                                                            |                       | 3.6  | 3.7    | 3.6           | 3.7    |
| A2.03 | Overtravel/in-out                                                                                                                                                                                                                                        |                       | 3.6  | 3.9    | 3.6           | 3.9    |
| A3    | Ability to monitor automatic operations of the ROD<br>POSITION INFORMATION SYSTEM including:                                                                                                                                                             | (41.7 / 45.7)         |      |        |               |        |
| A3.01 | Full core display                                                                                                                                                                                                                                        |                       | 3.4  | 3.3    | 3.4           | 3.3    |
| A3.02 | Alarm and indicating lights                                                                                                                                                                                                                              |                       | 3.2  | 3.1    | 3.2           | 3.1    |
| A3.03 | Verification of proper functioning/ operability                                                                                                                                                                                                          |                       | 3.5  | 3.7    | 3.5           | 3.7    |
| A3.04 | RCIS: Plant-Specific                                                                                                                                                                                                                                     |                       | 3.5  | 3.8    | 3.5           | 3.8    |
| A4    | Ability to manually operate and/or monitor in the control room:                                                                                                                                                                                          | (41.7 / 45.5 to 45.8) |      |        |               |        |
| A4.01 | RCIS rod action control bypass switches                                                                                                                                                                                                                  |                       | 3.2  | 3.3    | 3.2           | 3.3    |
| A4.02 | Control rod position                                                                                                                                                                                                                                     |                       | 3.8* | 3.8*   | 3.8           | 3.8    |
| A4.03 | Control rod drive temperature                                                                                                                                                                                                                            |                       | 2.8  | 2.7    | 2.8           | -<br>  |

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| Facility: CPS   |                                                                                                                                    | Printed: 08/11/200               |      |      |        |        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------|--------|--------|
|                 | System Number: 215001                                                                                                              |                                  |      |      |        |        |
|                 | System Name: Traversing In-Core Probe                                                                                              |                                  | NRC  | lmp  | Facili | ty Imp |
|                 |                                                                                                                                    | CFR                              | RO   | SRO  | RO     | SRO    |
| KI              | Knowledge of the physical connections and/or cause-<br>effect relationships between TRAVERSING IN-CORE<br>PROBE and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |        |        |
| K1.01           | Local power range monitors: (Not-BWR1)                                                                                             |                                  | 2.5  | 2.8  | 2.5    | 2.8    |
| K1.02           | Process computer: (Not-BWR1)                                                                                                       |                                  | 2.5  | 3.1  | 2.5    | 3.1    |
| K1.03           | Nitrogen purge system: P Spec(Not BWR1)                                                                                            |                                  | 2.1* | 2.3  | 2.1    | 2.3    |
| K1.04           | Plant air systems: P-Spec(Not-BWR1)                                                                                                |                                  | 1.8* | 2.0  | 1.8    | 2.0    |
| K1.05           | Primary containment isolation system: (Not-BWR1)                                                                                   |                                  | 3.3  | 3.4  | 3.3    | 3.4    |
| K1.06           | D.C. electrical: (Not-BWR1)                                                                                                        |                                  | 1.8* | 1.9* | 1.8    | 1.9    |
| K1.07           | A.C. electrical: (Not-BWR1)                                                                                                        |                                  | 1.8* | 1.9* | 1.8    | 1.9    |
| K1.08           | Reactor pressure vessel: (Not-BWR1)                                                                                                |                                  | 2.5  | 2.6  | 2.5    | 2.6    |
| K1.09           | Primary containment: (Not-BWR1)                                                                                                    |                                  | 2.6  | 2.7  | 2.6    | 2.7    |
| K1.10           | Area radiation monitoring system: (Not-BWR1)                                                                                       |                                  | 2.6  | 2.8  | 2.6    | 2.8    |
| К2              | Knowledge of electrical power supplies to the following:                                                                           | (41.7)                           |      |      |        |        |
| K2.01           | Shear valves: Mark-I&II(Not-BWR1)                                                                                                  |                                  | 1.9* | 2.1* | 1.9    | 2.1    |
| К3              | Knowledge of the effect that a loss or malfunction of the TRAVERSING IN-CORE PROBE will have on following:                         | (41.7 / 45.4)                    |      |      |        |        |
| K3.01           | Local power range monitor's calibration: (Not-BWR1)                                                                                |                                  | 2.3  | 2.8  | 2.3    | 2.8    |
| ́ <sub>К4</sub> | Knowledge of TRAVERSING IN-CORE PROBE design<br>feature(s) and/or interlocks which provide for the<br>following:                   | (41.7)                           |      |      |        |        |
| K4.01           | Primary containment isolation: Mark-I&II(Not-BWR1)                                                                                 |                                  | 3.4  | 3.5  | 3.4    | 3.5    |
| K4.02           | Corrosion prevention: (Not-BWR1)                                                                                                   |                                  | 1.9* | 2.1* | 1.9    | 2.1    |
| K4.03           | Radiation shielding: (Not-BWR1)                                                                                                    |                                  | 2.4  | 2.7  | 2.4    | 2.7    |
| К5              | Knowledge of the operational implications of the<br>following concepts as they apply to TRAVERSING<br>IN-CORE PROBE:               | (41.5 / 45.3)                    |      |      |        |        |
| K5.01           | Neutron flux detection: (Not-BWR1)                                                                                                 |                                  | 2.2* | 2.5  | 2.2    | 2.5    |
| K6              | Knowledge of the effect that a loss or malfunction of the following will have on the TRAVERSING IN-CORE PROBE:                     | (41.7 / 45.7)                    |      |      |        |        |
| K6.01           | D.C. electrical power: (Not-BWR1)                                                                                                  |                                  | 1.9* | 2.1* | 1.9    | 2.1    |
| K6.02           | A.C. electrical power: (Not-BWR1)                                                                                                  |                                  | 1.9* | 2.1* | 1.9    | 2.1    |
| K6.03           | Process computer: BWR-2, 3, 4, 5, 6                                                                                                |                                  | 2.3  | 2.7  | 2.3    | 2.7    |
| K6.04           | Primary containment isolation system: Mark-I&II(Not-BWR                                                                            | <del>1)</del>                    | 3.1  | 3.4  | 3.1    | 3.4    |
| K6.05           | Plant air systems: P-Spec(Not-BWR1)                                                                                                |                                  | 1.8* | 2.1* | 1.8    | 2.1    |
| K6.06           | Nitrogen purge: P-Spec(Not-BWR1)                                                                                                   |                                  | 2.0* | 2.2  | 2.0    | 2.2    |

| Facility: CPS |                                                                                                                                                                                                                                   |                         | Printed: 08/11/2006 |      |        |             |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|------|--------|-------------|--|
|               | System Number: 215001                                                                                                                                                                                                             |                         |                     |      |        |             |  |
|               | System Name: Traversing In-Core Probe                                                                                                                                                                                             |                         | NRC                 | lmp  | Facili | <u>ty 1</u> |  |
|               |                                                                                                                                                                                                                                   | CFR                     | RO                  | SRO  | RO     | 8.          |  |
| A1            | Ability to predict and/or monitor changes in parameters<br>associated with operating the TRAVERSING IN-CORE                                                                                                                       | (41.5 / 45.5)           |                     |      |        |             |  |
| <b>A</b> 1 01 | Radiation levels: (Not-BWR1)                                                                                                                                                                                                      |                         | 2.8                 | 2.9  | 2.8    | 2.9         |  |
| A1.02         | Detector position: (Not-BWR1)                                                                                                                                                                                                     |                         | 2.5                 | 2.4  | 2.5    | 2.4         |  |
| A1.03         | Valve status: Mark I& II (Not-BWR1)                                                                                                                                                                                               |                         | 2.6*                | 2.8  | 2.6    | 2.8         |  |
| A1 04         | Drive speed: (Not-BWR1)                                                                                                                                                                                                           |                         | 2.0*                | 2.2* | 2.0    | 2.2         |  |
| A1.05         | Detector output: (Not-BWR1)                                                                                                                                                                                                       |                         | 2.0*                | 2.3* | 2.0    | 2.3         |  |
| A1.06         | Radiation alarms: (Not-BWR1)                                                                                                                                                                                                      |                         | 2.9                 | 2.8  | 2.9    | 2.8         |  |
| A2            | Ability to (a) predict the impacts of the following on the<br>TRAVERSING IN-CORE PROBE; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions o | (41.5 / 45.6)           |                     |      |        |             |  |
|               | onerations:                                                                                                                                                                                                                       | •                       |                     |      |        |             |  |
| A2 01         | Low reactor water level: Mark-1&II(Not-BWR1)                                                                                                                                                                                      |                         | 2.7                 | 2.9  | 2.7    | 2.9         |  |
| A2 02         | High primary containment pressure: Mark-I&II(Not-BWR1                                                                                                                                                                             | <i>}</i>                | 2.9                 | 3.0  | 2.9    | 3.0         |  |
| A2.03         | Drive mechanism failure: (Not-BWR1)                                                                                                                                                                                               | ,                       | 2.1*                | 2.4  | 2.1    | 2.4         |  |
| A2 04         | A C failure: (Not-BWR1)                                                                                                                                                                                                           |                         | 1.8*                | 2.0* | 1.8    | 2.0         |  |
| A2.05         | DC failure: (Not-BWR1)                                                                                                                                                                                                            |                         | 1.8*                | 2.0* | 1.8    | 2.0         |  |
| A2.06         | Value closurec: Mark-1&II(Not BWR1)                                                                                                                                                                                               |                         | 2.4*                | 2.6  | 2.4    | 2.6         |  |
| A2.07         | +Failure to retract during accident conditions:-<br>Mark-1&II(Not-BWR1)                                                                                                                                                           |                         | 3.4                 | 3.7  | 3.4    |             |  |
| A2.08         | Failure to retract to shield: (Not-BWR1)                                                                                                                                                                                          |                         | 2.7*                | 2.9  | 2.7    | 2.9         |  |
| A3            | Ability to monitor automatic operations of the TRAVERSING IN-CORE PROBE including:                                                                                                                                                | (41.7 / 45.7)           |                     |      |        |             |  |
| A3.01         | Detector position: P-Spec(Not-BWR1)                                                                                                                                                                                               |                         | 2.3*                | 2.5* | 2.3    | 2.5         |  |
| A3.02         | Detector drive speed: P-Spec(Not-BWR1)                                                                                                                                                                                            |                         | 1.9*                | 2.2* | 1.9    | 2.2         |  |
| A3.03         | Valve operation: Not BWR1                                                                                                                                                                                                         |                         | 2.5*                | 2.6* | 2.5    | 2.6         |  |
| A3.04         | Indicating lights: P-Spec(Not-BWR1)                                                                                                                                                                                               |                         | 2.2*                | 2.4* | 2.2    | 2.4         |  |
| A3.05         | Detector output: P-Spec(Not-BWR1)                                                                                                                                                                                                 |                         | 1.9*                | 2.2* | 1.9    | 2.2         |  |
| A4            | Ability to manually operate and/or monitor in the contro room:                                                                                                                                                                    | l (41.7 / 45.5 to 45.8) |                     |      |        |             |  |
| A4.01         | Detector drive speed: P-Spec(Not-BWR1)                                                                                                                                                                                            |                         | 2.0*                | 2.2* | 2.0    | 2.2         |  |
| A4.02         | Detector position: P-Spec(Not-BWR1)                                                                                                                                                                                               |                         | 2.4*                | 2.6* | 2.4    | 2.6         |  |
| A4.03         | Isolation valves: Mark-I&II(Not-BWR1)                                                                                                                                                                                             |                         | 3.0                 | 3.1  | 3.0    | 3.1         |  |
| A4.04         | Detector output: P-Spec(Not-BWR1)                                                                                                                                                                                                 |                         | 2.0*                | 2.3* | 2.0    | 2.3         |  |
| A4.05         | Indicating lights: P-Spec(Not-BWR1)                                                                                                                                                                                               |                         | 2.3*                | 2.5  | 2.3    | 2.5         |  |
|               |                                                                                                                                                                                                                                   |                         |                     |      |        |             |  |

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|        | Facility: CPS                                                                                                                      |                                  |            | Printe | ed: U8/1      | 1/200         |
|--------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|--------|---------------|---------------|
|        | System Number: 215002                                                                                                              |                                  |            |        |               |               |
|        | System Name: Rod Block Monitor System                                                                                              |                                  | <u>NRC</u> | Imp    | <u>Facili</u> | <u>ty Imp</u> |
|        |                                                                                                                                    | CFR                              | RO         | SRO    | RO            | SR            |
| K1     | Knowledge of the physical connections and/or cause-<br>effect relationships between ROD BLOCK MONITOR<br>SYSTEM and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |            |        |               |               |
| K1.01  | APRM: BWR 3.4.5                                                                                                                    |                                  | 2.9        | 3.0    | 2.9           | 3.            |
| K1.02  | LPRM: BWR-3, 4, 5                                                                                                                  |                                  | 3.2        | 3.1    | 3.2           | 3.            |
| K1.03  | Reactor manual control: BWR-3, 4, 5                                                                                                |                                  | 3.2        | 3.2    | 3.2           | 3.            |
| K1.04  | Recirculation system: BWR-3, 4, 5                                                                                                  |                                  | 3.1        | 3.1    | 3.1           | 3.            |
| K1.05  | Four rod display: BWR-3, 4, 5                                                                                                      |                                  | 3.0        | 3.0    | 3.0           | 3.            |
| K1.06  | Control rod selection: BWR-3, 4, 5                                                                                                 |                                  | 3.0        | 3.1    | 3.0           | 3.            |
| K1.07  | <del>IRM: BWR-3, 4, 5</del>                                                                                                        |                                  | 2.0*       | 2.0*   | 2.0           | 2.            |
| K2     | Knowledge of electrical power supplies to the following:                                                                           | (41.7)                           |            |        |               |               |
| K2.01  | RBM channels: BWR-3, 4, 5                                                                                                          |                                  | 2.5*       | 2.8*   | 2.5           | 2.            |
| K2.02  | Recorders: BWR-3, 4, 5                                                                                                             |                                  | 2.1*       | 2.1*   | 2.1           | 2.            |
| K2.03  | APRM-channels: BWR-3, 4, 5                                                                                                         |                                  | 2.8        | 2.9    | 2.8           | 2.            |
| К3     | Knowledge of the effect that a loss or malfunction of the<br>ROD BLOCK MONITOR SYSTEM will have on<br>following:                   | (41.7 / 45.4)                    |            |        |               |               |
| K3.01  | Reactor-manual control system: BWR-3, 4, 5                                                                                         |                                  | 3.3        | 3.5    | 3.3           | 3.            |
| \$3.02 | <b>†Limiting control rod pattern: Plant-Specific</b>                                                                               |                                  | 3.1        | 3.6    | 3.1           | 3.            |
| K4     | Knowledge of ROD BLOCK MONITOR SYSTEM design feature(s) and/or interlocks which provide for the following:                         | (41.7)                           |            |        |               |               |
| K4.01  | Prevent control rod withdrawal: BWR-3, 4, 5                                                                                        |                                  | 3.4        | 3.5    | 3.4           | 3             |
| K4.02  | Allows stepping up of rod block setpoint: BWR-3, 4, 5                                                                              |                                  | 2.9        | 3.0    | 2.9           | 3.            |
| K4.03  | Initiation point (30%): BWR-3, 4, 5                                                                                                |                                  | 2.9        | 3.0    | 2.9           | 3             |
| K5     | Knowledge of the operational implications of the following concepts as they apply to ROD BLOCK MONITOR SYSTEM:                     | (41.5 / 45.3)                    |            |        |               |               |
| K5.01  | Trip reference selection: Plant-Specific                                                                                           |                                  | 2.6        | 2.8    | 2.6           | 2             |
| K5.02  | Null sequence control: BWR-3, 4, 5                                                                                                 |                                  | 2.4        | 2.5    | 2.4           | 2             |
| K6     | Knowledge of the effect that a loss or malfunction of the following will have on the ROD BLOCK MONITOR SYSTEM:                     | (41.7 / 45.7)                    |            |        |               |               |
| K6.01  | <del>RPS: BWR-3, 4, 5</del>                                                                                                        |                                  | 3.0        | 3.2    | 3.0           | 3             |
| K6.02  | Instrument power: Plant-Specific                                                                                                   |                                  | 2.4        | 2.5    | 2.4           | 2             |
| K6.03  | Essential power: Plant-Specific                                                                                                    |                                  | 2.5        | 2.5    | 2.5           | 2             |
| K6.04  | APRM reference channel: BWR-3, 4, 5                                                                                                |                                  | 2.8        | 3.0    | 2.8           | 3             |
|        |                                                                                                                                    |                                  | 2.0        | 2 1    | 20            | 2             |

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|---------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|-------|--------|--------------|
|               | <u>System Number:</u>                                                                    | 215002                                                                                                                                                                 |                       |      |       |        |              |
|               | System Name:                                                                             | Rod Block Monitor System                                                                                                                                               |                       | NRC  | lann  | Facili | tv Iz        |
|               | <u>bysten : tante</u>                                                                    |                                                                                                                                                                        | CFR                   | RO   | SRO   | RO     | 1 <b>2_1</b> |
| A1            | Ability to predic<br>associated with<br>SYSTEM contro                                    | et and/or monitor changes in parameters<br>operating the ROD BLOCK MONITOR                                                                                             | (41.5 / 45.5)         |      |       |        |              |
| A1.01         | Trip reference: I                                                                        | BWR-3, 4, 5                                                                                                                                                            |                       | 2.7  | 2.8   | 2.7    | 2.8          |
| A2            | Ability to (a) pro<br>ROD BLOCK N<br>those prediction<br>mitigate the con<br>operations: | edict the impacts of the following on the<br>AONITOR SYSTEM; and (b) based on<br>s, use procedures to correct, control, or<br>sequences of those abnormal conditions o | (41.5 / 45.6)<br>r    |      |       |        |              |
| A2.01         | Withdrawal of c<br>4.5                                                                   | ontrol rod in high power region of core: BW                                                                                                                            | / <del>R-3,</del>     | 3.3  | 3.5   | 3.3    | 3.5          |
| A2.02         | Loss or reductio<br>BWR-3, 4, 5                                                          | n in recirculation system flow (flow-compar                                                                                                                            | <del>rator):</del>    | 3.0  | 3.0   | 3.0    | 3.0          |
| A2.03         | Loss of associate                                                                        | ed reference APRM channel: BWR-3, 4, 5                                                                                                                                 |                       | 3.1  | 3.3   | 3.1    | 3.3          |
| A2.04         | Power supply lo                                                                          | sses: BWR-3, 4, 5                                                                                                                                                      |                       | 2.7  | 2.8   | 2.7    | 2.8          |
| A2.05         | RBM high or in                                                                           | operable: BWR-3, 4, 5                                                                                                                                                  |                       | 3.2  | 3.3   | 3.2    | 3.3          |
| A3            | Ability to monit<br>BLOCK MONI                                                           | or automatic operations of the ROD<br>TOR SYSTEM including:                                                                                                            | (41.7 / 45.7)         |      |       |        |              |
| A3.01         | Four rod display                                                                         | <del>4: BWR-3, 4, 5</del>                                                                                                                                              |                       | 3.1  | 3.1   | 3.1    | 3.1          |
| A3.02         | Meters and reco                                                                          | rders: BWR-3, 4, 5                                                                                                                                                     |                       | 3.1  | 3.0   | 3.1    | -            |
| A3.03         | Alarm and indic                                                                          | ating lights: BWR-3, 4, 5                                                                                                                                              |                       | 3.1  | 3.1   | 3.1    | 3.1          |
| A3.04         | Verification or p                                                                        | proper functioning/ operability: BWR-3, 4, 5                                                                                                                           | •                     | 3.6  | 3.5   | 3.6    | 3.5          |
| A3.05         | Back panel mete                                                                          | ers and indicating lights: BWR-3, 4, 5                                                                                                                                 |                       | 3.2  | 3.2   | 3.2    | 3.2          |
| A3.06         | Transfer to alter<br>BWR-3, 4, 5                                                         | nate APRM when referenced APRM bypass                                                                                                                                  | <del>ed:</del>        | 2.6  | 2.6   | 2.6    | 2.6          |
| A4            | Ability to manu:<br>room:                                                                | ally operate and/or monitor in the control                                                                                                                             | (41.7 / 45.5 to 45.8) |      |       |        |              |
| A4.01         | IRM/RBM reco                                                                             | rder/switch: BWR-3, 4, 5                                                                                                                                               |                       | 2.8  | 2.7   | 2.8    | 2.7          |
| A4.02         | RBM back pane                                                                            | switches, meters and indicating lights: BW                                                                                                                             | <del>'R-3.</del>      | 2.9  | 2.9   | 2.9    | 2.9          |
|               | 4 <u>.5</u>                                                                              |                                                                                                                                                                        |                       |      | ,     |        | 2.,          |
| A4.03         | Trip bypasses: I                                                                         | <del>3WR-3, 4, 5</del>                                                                                                                                                 |                       | 2.8  | 2.8   | 2.8    | 2.8          |
| A4.04         | Push to Check n                                                                          | ushbutton: Plant-Specific                                                                                                                                              |                       | 2.6  | 2.5   | 2.6    | 2.5          |
| A4.05         | Setup pushbutto                                                                          | m-Plant-Specific                                                                                                                                                       |                       | 2.5  | 2.5   | 2.5    | 2.5          |
| A4.06         | Surveillance tes                                                                         | tine: BWR-3, 4, 5                                                                                                                                                      |                       | 2.7* | 2.7   | 2.7    | 2.7          |
|               |                                                                                          |                                                                                                                                                                        |                       |      | - • • |        |              |

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|                    | <u>System Number:</u>                         | 215003                                                                                                      |                                  |      |     |        |        |
|--------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------|------|-----|--------|--------|
|                    | System Name                                   | Intermediate Range Monitor (IRM) Syste                                                                      | em                               | NRC  | Imn | Facili | tv Imn |
|                    | <u>Bystein tame.</u>                          | inclineduite Aunge Monitor (Incia) Syste                                                                    | CFR                              | RO   | SRO | RO     | SRO    |
| K1                 | Knowledge of<br>effect relation<br>MONITOR (I | the physical connections and/or cause-<br>ships between INTERMEDIATE RANGE<br>RM) SYSTEM and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |     |        |        |
| K1.01              | RPS                                           | ,                                                                                                           |                                  | 3.9  | 3.9 | 3.9    | 3.9    |
| K1.02              | Reactor manu                                  | al control                                                                                                  |                                  | 3.6  | 3.6 | 3.6    | 3.6    |
| K1.03              | Rod control a                                 | and information system: Plant-Specific                                                                      |                                  | 3.1  | 3.1 | 3.1    | 3.1    |
| K1.04              | Process com<br>(SPDS/ERIS                     | puter/ performance monitoring system<br>(CRIDS/GDS): Plant-Specific                                         |                                  | 2.5  | 2.8 | 2.5    | 2.8    |
| K1.05              | Display cont                                  | rol system: Plant-Specific                                                                                  |                                  | 3.3  | 3.3 | 3.3    | 3.3    |
| K1.06              | APRM SCR                                      | AM signals: Plant-Specific                                                                                  |                                  | 3.9  | 4.0 | 3.9    | 4.0    |
| K1.07              | Reactor vess                                  | el                                                                                                          |                                  | 3.0  | 3.0 | 3.0    | 3.0    |
| К2                 | Knowledge of                                  | electrical power supplies to the following:                                                                 | (41.7)                           |      |     |        |        |
| K2.01              | IRM channel                                   | s/detectors                                                                                                 |                                  | 2.5* | 2.7 | 2.5    | 2.7    |
| К3                 | Knowledge of<br>INTERMEDI<br>will have on f   | the effect that a loss or malfunction of the ATE RANGE MONITOR (IRM) SYSTEM                                 | (41.7 / 45.4)                    |      |     |        |        |
| K3 01              | RPS                                           | onowing.                                                                                                    |                                  | 39   | 4.0 | 3.9    | 4.0    |
| K3.02              | Reactor manu                                  | ual control                                                                                                 |                                  | 3.6  | 3.6 | 3.6    | 3.6    |
| <sup>11</sup> 3 03 | Red control :                                 | and information system: Plant-Specific                                                                      |                                  | 3.7  | 3.7 | 3.7    | 3.7    |
| 1 04               | Reactor pow                                   | er indication                                                                                               |                                  | 3.6  | 3.6 | 3.6    | 3.6    |
| K3.05              | APRM: Plan                                    | t-Specific                                                                                                  |                                  | 3.7  | 3.8 | 3.7    | 3.8    |
| K4                 | Knowledge of<br>(IRM) SYSTI<br>which provide  | INTERMEDIATE RANGE MONITOR<br>EM design feature(s) and/or interlocks<br>e for the following:                | (41.7)                           |      |     |        |        |
| K4.01              | Rod withdra                                   | wal blocks                                                                                                  |                                  | 3.7  | 3.7 | 3.7    | 3.7    |
| K4.02              | Reactor SCR                                   | AM signals                                                                                                  |                                  | 4.0  | 4.0 | 4.0    | 4.0    |
| K4.03              | Gamma com                                     | pensation                                                                                                   |                                  | 2.4  | 2.4 | 2.4    | 2.4    |
| K4.04              | Varying syst                                  | em sensitivity levels using range switches                                                                  |                                  | 2.9  | 2.9 | 2.9    | 2.9    |
| K4.05              | Changing de                                   | tector position                                                                                             |                                  | 2.9  | 3.0 | 2.9    | 3.0    |
| K4.06              | Alarm seal-i                                  | n                                                                                                           |                                  | 2.6  | 2.6 | 2.6    | 2.6    |
| К5                 | Knowledge of<br>following con<br>RANGE MO     | The operational implications of the cepts as they apply to INTERMEDIATE NITOR (IRM) SYSTEM:                 | (41.5 / 45.3)                    |      |     |        |        |
| K5.01              | Detector ope                                  | ration                                                                                                      |                                  | 2.6  | 2.7 | 2.6    | 2.7    |
| K5.02              | Gamma disc                                    | rimination                                                                                                  |                                  | 2.2* | 2.3 | 2.2    | 2.3    |
| K5.03              | Changing de                                   | tector position                                                                                             |                                  | 3.0  | 3.1 | 3.0    | 3.1    |

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|       | System Number:                                                      | 215003                                                                                                                                                               |               |            |            |        |       |
|-------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|------------|--------|-------|
|       | System Name:                                                        | Intermediate Range Monitor (IRM) Syste                                                                                                                               | ·m            | NRC        | lmo        | Facili | tv Ir |
|       | System range                                                        |                                                                                                                                                                      | CFR           | RO         | SRO        | RO     | 5     |
| K6    | Knowledge of (<br>following will t<br>MONITOR (II                   | the effect that a loss or malfunction of the<br>nave on the INTERMEDIATE RANGE<br>RM) SYSTEM:                                                                        | (41.7 / 45.7) |            |            |        |       |
| K6.01 | Reactor prote                                                       | ction system (power supply): Plant-Specific                                                                                                                          |               | 3.8        | 3.8        | 3.8    | 3.8   |
| K6.02 | 24/48 volt D.0                                                      | C. power: Plant-Specific                                                                                                                                             |               | 3.6        | 3.8        | 3.6    | 3.8   |
| K6.03 | Detector drive                                                      | e motor                                                                                                                                                              |               | 2.8        | 2.9        | 2.8    | 2.9   |
| K6.04 | Detectors                                                           |                                                                                                                                                                      |               | 3.0        | 3.0        | 3.0    | 3.0   |
| K6.05 | Trip units                                                          |                                                                                                                                                                      |               | 3.1        | 3.2        | 3.1    | 3.2   |
| K6.06 | APRM                                                                |                                                                                                                                                                      |               | 3.2        | 3.4        | 3.2    | 3.4   |
| K6.07 | Recorder                                                            |                                                                                                                                                                      |               | 2.3        | 2.3        | 2.3    | 2.3   |
| A1    | Ability to pred<br>associated with<br>MONITOR (11                   | ict and/or monitor changes in parameters<br>s operating the INTERMEDIATE RANGE<br>RM) SYSTEM controls including:                                                     | (41.5 / 45.5) |            |            |        |       |
| A1.01 | Detector posit                                                      | tion                                                                                                                                                                 |               | 3.4        | 3.3        | 3.4    | 3.3   |
| A1.02 | Reactor powe                                                        | r indication response to rod position changes                                                                                                                        |               | 3.7        | 3.7        | 3.7    | 3.7   |
| A1.03 | RPS status                                                          |                                                                                                                                                                      |               | 3.6        | 3.7        | 3.6    | 3.7   |
| A1.04 | Control rod b                                                       | lock status                                                                                                                                                          |               | 3.4        | 3.4        | 3.4    | 3.4   |
| A1.05 | SCRAM and                                                           | rod block trip setpoints                                                                                                                                             |               | 3.9        | 3.9        | 3.9    | 3.9   |
| A1.06 | Lights and ala                                                      | arms                                                                                                                                                                 |               | 3.3        | 3.2        | 3.3    | 3.2   |
| A2    | Ability to (a) p<br>INTERMEDI<br>and (b) based o<br>correct, contro | redict the impacts of the following on the<br>ATE RANGE MONITOR (IRM) SYSTEM;<br>on those predictions, use procedures to<br>d, or mitigate the consequences of those | (41.5 / 45.6) |            |            |        |       |
|       | abnormal cond                                                       | itions or operations:                                                                                                                                                |               | 28         | <b>2 7</b> | 20     | 2.2   |
| A2.01 | Power supply                                                        | degraded                                                                                                                                                             |               | 2.8        | 3.2        | 2.0    | 3.2   |
| A2.02 | IKM mop con                                                         | altion                                                                                                                                                               |               | 3.2        | 3.7        | 3.3    | 2.1   |
| A2.03 | Stuck detector                                                      | r<br>                                                                                                                                                                |               | 2.9        | 3.1<br>2.0 | 2.9    | 2.0   |
| A2.04 | Up scale or do                                                      | own scale trips                                                                                                                                                      |               | 5.7        | 2.6        | 3.7    | 2.6   |
| A2.05 | Faulty or erra                                                      | tic operation of detectors/system                                                                                                                                    |               | 3.3        | 3.3        | 3.3    | 2.2   |
| A2.06 | Faulty range s                                                      | switch                                                                                                                                                               |               | 3.U<br>2.5 | 3.2        | 3.0    | 2.2   |
| A2.07 | Failed records                                                      | 27                                                                                                                                                                   |               | 2.3        | 2.1        | 2.5    | 2.7   |
| A3    | Ability to mon<br>INTERMEDIA<br>including:                          | itor automatic operations of the<br>ATE RANGE MONITOR (IRM) SYSTEM                                                                                                   | (41.7 / 45.7) |            |            |        |       |
| A3.01 | Meters and re                                                       | corders                                                                                                                                                              |               | 3.3        | 3.3        | 3.3    | 3.3   |
| A3.02 | Annunciator a                                                       | and alarm signals                                                                                                                                                    |               | 3.3        | 3.3        | 3.3    | 3.3   |
| A3.03 | RPS status                                                          | -                                                                                                                                                                    |               | 3.7        | 3.6        | 3.7    | 3.6   |
| A3.04 | Control rod b                                                       | lock status                                                                                                                                                          |               | 3.5        | 3.5        | 3.5    | 3.5   |

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|-------|-----------------------|-------------------------------------------------|--------------------|------------|--------|---------|--------|
|       | <u>System Number:</u> | 215003                                          |                    |            |        |         |        |
|       | System Name:          | Intermediate Range Monitor (IRM) System         |                    | <u>NRC</u> | lmp    | Facili  | iy Imp |
|       |                       |                                                 | CFR                | RO         | SRO    | RO      | SRO    |
| A4    | Ability to manu       | ally operate and/or monitor in the control (41. | .7 / 45.5 to 45.8) |            |        |         |        |
|       | room:                 |                                                 |                    |            |        |         |        |
| A4.01 | IRM recorder          | indication                                      |                    | 3.3        | 3.3    | 3.3     | 3.3    |
| A4.02 | CRT display in        | ndications: Plant-Specific                      |                    | 2.9        | 2.8    | 2.9     | 2.8    |
| A4.03 | IRM range sw          | itches                                          |                    | 3.6        | 3.4    | 3.6     | 3.4    |
| A4.04 | IRM back pan          | el switches, meters, and indicating lights      |                    | 3.1        | 3.3    | 3.1     | 3.3    |
| A4.05 | Trip bypasses         | ·                                               |                    | 3.4        | 3.4    | 3.4     | 3.4    |
| A4.06 | Detector drive        | S                                               |                    | 3.0        | 2.9    | 3.0     | 2.9    |
| A4.07 | Verification of       | f proper functioning/ operability               |                    | 3.6        | 3.6    | 3.6     | 3.6    |

Facility: CPS

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|       | <u>System Number:</u>                          | 215004                                                                                                |                                  |      |      |        |        |
|-------|------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|------|------|--------|--------|
|       | System Name:                                   | Source Range Monitor (SRM) System                                                                     |                                  | NRC  | lmo  | Facili | tv lmp |
| ~     | System (univ.                                  |                                                                                                       | CFR                              | RO   | SRO  | RO     | SRO    |
| К1    | Knowledge of<br>effect relations<br>MONITOR (S | the physical connections and/or cause-<br>ships between SOURCE RANGE<br>BM) SVSTEM and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |        |        |
| K1 01 | Reactor prote                                  | ection system                                                                                         |                                  | 3.6  | 3.7  | 3.6    | 3.7    |
| K1.07 | Reactor manu                                   | al control                                                                                            |                                  | 3.4  | 3.4  | 3.4    | 3.4    |
| K1.02 | Rod control a                                  | ind information system: Plant-Specific                                                                |                                  | 3.0  | 3.0  | 3.0    | 3.0    |
| K1.04 | Process comp<br>(SPDS/ERIS/                    | puter/ performance monitoring system<br>(CRIDS/GDS): Plant-Specific                                   |                                  | 2.4  | 2.6* | 2.4    | 2.6    |
| K1.05 | Display contr                                  | ol system: Plant-Specific                                                                             |                                  | 2.8  | 3.0  | 2.8    | 3.0    |
| K1.06 | Reactor vesse                                  | 2]                                                                                                    |                                  | 2.8  | 2.8  | 2.8    | 2.8    |
| К2    | Knowledge of                                   | electrical power supplies to the following:                                                           | (41.7)                           |      |      |        |        |
| K2.01 | SRM channel                                    | ls/detectors                                                                                          |                                  | 2.6  | 2.8  | 2.6    | 2.8    |
| K2.02 | Detector driv                                  | e modules                                                                                             |                                  | 2.1* | 2.3* | 2.1    | 2.3    |
| K2.03 | Detector driv                                  | e module control                                                                                      |                                  | 2.0* | 2.1* | 2.0    | 2.1    |
| К3    | Knowledge of<br>SOURCE RAI<br>baye on follow   | the effect that a loss or malfunction of the<br>NGE MONITOR (SRM) SYSTEM will                         | (41.7 / 45.4)                    |      |      |        |        |
| K3 01 | RPS                                            | ing.                                                                                                  |                                  | 3.4  | 3.4  | 3.4    | 3.4    |
| 3.02  | Reactor manu                                   | al control: Plant-Specific                                                                            |                                  | 3.4  | 3.4  | 3.4    | 3.4    |
| 1.03  | Rod control a                                  | and information system: Plant-Specific                                                                |                                  | 3.3  | 3.3  | 3.3    | 3.3    |
| K3.04 | Reactor powe                                   | er and indication                                                                                     |                                  | 3.7  | 3.7  | 3.7    | 3.7    |
| K4    | Knowledge of<br>SYSTEM desi<br>provide for th  | SOURCE RANGE MONITOR (SRM)<br>gn feature(s) and/or interlocks which<br>e following:                   | (41.7)                           |      |      |        |        |
| K4.01 | Rod withdray                                   | wal blocks                                                                                            |                                  | 3.7  | 3.7  | 3.7    | 3.7    |
| K4.02 | Reactor SCR                                    | AM signals                                                                                            |                                  | 3.4  | 3.5  | 3.4    | 3.5    |
| K4.03 | Gamma com                                      | pensation                                                                                             |                                  | 2.4  | 2.4  | 2.4    | 2.4    |
| K4.04 | Changing det                                   | tector position                                                                                       |                                  | 2.8  | 2.9  | 2.8    | 2.9    |
| K4.05 | Alarm seal-ir                                  | 1                                                                                                     |                                  | 2.5  | 2.5  | 2.5    | 2.5    |
| K4.06 | IRM/SRM in                                     | terlock                                                                                               |                                  | 3.2  | 3.2  | 3.2    | 3.2    |
| К5    | Knowledge of<br>following cone<br>MONITOR (S   | the operational implications of the cepts as they apply to SOURCE RANGE SRM) SYSTEM:                  | (41.5 / 45.3)                    |      |      |        |        |
| K5.01 | Detector ope                                   | ration                                                                                                |                                  | 2.6  | 2.6  | 2.6    | 2.6    |
| K5.02 | Gamma disci                                    | rimination                                                                                            |                                  | 2.2* | 2.2* | 2.2    | 2.2    |
| K5.03 | Changing de                                    | tector position                                                                                       |                                  | 2.8  | 2.8  | 2.8    | 2.8    |

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|       | System Number:                                | 215004                                                                           |               |     |             |            |            |            |
|-------|-----------------------------------------------|----------------------------------------------------------------------------------|---------------|-----|-------------|------------|------------|------------|
|       | System Name:                                  | Source Range Monitor (SRM) System                                                |               |     | NRC         | Imn        | Facili     | ity Ir     |
|       | <u></u>                                       |                                                                                  |               | CFR | RO          | SRO        | RO         | <u>د م</u> |
| K6    | Knowledge of<br>following will<br>(SRM) SYSTE | the effect that a loss or malfunction of the have on the SOURCE RANGE MONITOR    | (41.7 / 45.7) |     |             |            |            |            |
| K6.01 | RPS                                           |                                                                                  |               |     | 3.2         | 3.3        | 3.2        | 3.3        |
| K6.02 | 24/48 volt D.                                 | C, power                                                                         |               |     | 3.1         | 3.3        | 3.1        | 3.3        |
| K6.03 | Detector drive                                | e motor                                                                          |               |     | 2.4         | 2.4        | 2.4        | 2.4        |
| K6.04 | Detectors                                     |                                                                                  |               |     | 2.9         | 2.9        | 2.9        | 2.9        |
| K6.05 | Trip units                                    |                                                                                  |               |     | 2.6         | 2.8        | 2.6        | 2.8        |
| K6.06 | Recorder                                      |                                                                                  |               |     | 2.2*        | 2.2*       | 2.2        | 2.2        |
| A1    | Ability to pred<br>associated with            | lict and/or monitor changes in parameters<br>h operating the SOURCE RANGE        | (41.5 / 45.5) |     |             |            |            |            |
| 41.01 | MONITOR (S                                    | KMI) SYSTEM controls including:                                                  |               |     | 2.0         | 2 1        | 2.0        | 2 1        |
| A1.01 | Delector post                                 | uon                                                                              |               |     | 3.0         | 3.1        | 5.U<br>2.4 | 3.1<br>2.7 |
| A1.02 | Reactor powe                                  | er indication                                                                    |               |     | 3.0         | 3.7        | 3.0<br>2.4 | 2.1        |
| A1.03 | KPS status                                    | 1 1 4 4 5                                                                        |               |     | 2.4         | 35         | 3.4<br>2.5 | 22         |
| A1.04 | Control rod p                                 | lock status                                                                      |               |     | 3.5         | 3.5<br>2.9 | 3.5<br>3.6 | 3.5        |
| A1.05 | SCRAM, rou                                    | block, and period afain trip serpoints                                           |               |     | 2.0         | 2.1        | 21         | J.0<br>2 1 |
| A1.00 | Lignis and an                                 | arms                                                                             |               |     | 5.1         | 3,1        | 3.1        | 5.1        |
| A2    | Ability to (a) p<br>SOURCE RAI                | predict the impacts of the following on the<br>NGE MONITOR (SRM) SYSTEM; and (b) | (41.5 / 45.6) |     |             |            |            |            |
|       | based on those                                | e predictions, use procedures to correct,                                        |               |     |             |            |            |            |
|       | control, or mit                               | ligate the consequences of those abnormal                                        |               |     |             |            |            |            |
| 43.01 | conditions or o                               | operations:                                                                      |               |     | 27          | 2.0        | 27         | 2.0        |
| A2.01 | Power suppry                                  |                                                                                  |               |     | 2.7         | 2.7        | 2.7        | 2.9        |
| A2.02 | SKIVI Inop co                                 |                                                                                  |               |     | 2.4         | 2.7        | 2.4        | 2.7        |
| A2.03 | Stuck delecto                                 |                                                                                  |               |     | 5.0<br>2.5  | 3.5        | 3.0        | 3.3<br>7   |
| A2.04 | Up scale and                                  | downscale inps                                                                   |               |     | 2.5         | 2.5        | 3.5        | 3.7        |
| A2.05 | Faulty or erra                                | the operation of detectors/system                                                |               |     | 2.2<br>2.4* | 3.2        | 2.2        | 3.3<br>3.5 |
| A2.06 | Failed record                                 | er                                                                               |               |     | 2.4*        | 2.5        | 2,4        | 2.3        |
| A3    | Ability to mon<br>RANGE MON                   | itor automatic operations of the SOURCE<br>NITOR (SRM) SYSTEM including:         | (41.7 / 45.7) |     |             |            |            |            |
| A3.01 | Meters and re                                 | ecorders                                                                         |               |     | 3.2         | 3.2        | 3.2        | 3.2        |
| A3.02 | Annunciator                                   | and alarm signals                                                                |               |     | 3.4         | 3.3        | 3.4        | 3.3        |
| A3.03 | RPS status                                    |                                                                                  |               |     | 3.6         | 3.5        | 3.6        | 3.5        |
| A3.04 | Control rod b                                 | lock status                                                                      |               |     | 3.6         | 3.6        | 3.6        | 3.6        |

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|       | Facility: CPS                                                            |          |     | Printe | ed: 08/1      | 1/2006 |
|-------|--------------------------------------------------------------------------|----------|-----|--------|---------------|--------|
|       | System Number: 215004                                                    |          |     |        |               |        |
|       | System Name: Source Range Monitor (SRM) System                           |          | NRC | Imp    | <u>Facili</u> | ty Imp |
|       |                                                                          | CFR      | RO  | SRO    | RO            | SRO    |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 t | to 45.8) |     |        |               |        |
|       | room:                                                                    |          |     |        |               |        |
| A4.01 | SRM count rate and period                                                |          | 3.9 | 3.8    | 3.9           | 3.8    |
| A4.02 | SRM recorder                                                             |          | 3.0 | 3.1    | 3.0           | 3.1    |
| A4.03 | CRT displays: Plant-Specific                                             |          | 2.9 | 2.7    | 2.9           | 2.7    |
| A4.04 | SRM drive control switches                                               |          | 3.2 | 3.2    | 3.2           | 3.2    |
| A4.05 | SRM back panel switches, meters, and indicating lights                   |          | 3.1 | 3.2    | 3.1           | 3.2    |
| A4.06 | Alarms and lights                                                        |          | 3.2 | 3.1    | 3.2           | 3.1    |
| A4.07 | Verification of proper functioning/ operability                          |          | 3.4 | 3.6    | 3.4           | 3.6    |

|                | Facility: CPS                 | 5                                                                        |                                  |     | Printe | :d: 08/1 | 1/2006 |
|----------------|-------------------------------|--------------------------------------------------------------------------|----------------------------------|-----|--------|----------|--------|
|                | <u>System Number:</u>         | 215005                                                                   |                                  |     |        |          |        |
|                | System Name:                  | Average Power Range Monitor/Local Po                                     | wer                              | NRC | Imp    | Facili   | ty Imn |
| • •            | <u>bysten renter</u>          | Range Monitor System                                                     | CFR                              | RO  | SRO    | RO       | SRO    |
| <b>K</b> 1     | Knowledge of effect relations | the physical connections and/or cause-<br>hips between APRM/LPRM and the | (41.2 to 41.9 / 45.7 to<br>45.8) |     |        |          |        |
|                | following:                    |                                                                          |                                  | 10  | 4.0    |          | 4.0    |
| K1.01          | RPS                           |                                                                          |                                  | 4.0 | 4.0    | 4.0      | 4.0    |
| K1.02          | IRM                           |                                                                          |                                  | 3.7 | 3.7    | 3.7      | 3.7    |
| K1.03          | RBM: Plant-S                  | pecific                                                                  |                                  | 3.4 | 3.5    | 3.4      | 3.5    |
| K1.04          | LPRM channe                   | els                                                                      |                                  | 3.6 | 3.6    | 3.6      | 3.6    |
| K1.05          | Four rod disp                 | lay: Plant-Specific                                                      |                                  | 3.2 | 3.2    | 3.2      | 3.2    |
| K1.06          | SPDS/ERIS/C                   | CRIDS/GDS: Plant-Specific                                                |                                  | 2.5 | 2.8*   | 2.5      | 2.8    |
| K1.07          | Process comp                  | uter, performance monitoring system                                      |                                  | 2.6 | 2.9    | 2.6      | 2.9    |
| K1.08          | Display contr                 | ol system: Plant-Specific                                                |                                  | 3.0 | 3.0    | 3.0      | 3.0    |
| K1.09          | Reactor recirc                | culation system: BWR-5, 6                                                |                                  | 3.0 | 3.0    | 3.0      | 3.0    |
| K1.10          | Reactor manua                 | al control system: Plant Specific                                        |                                  | 3.3 | 3.3    | 3.3      | 3.3    |
| K1.11          | Rod control a                 | nd information system: Plant-Specific                                    |                                  | 3.4 | 3.4    | 3.4      | 3.4    |
| K1.12          | Full core disp                | lay                                                                      |                                  | 3.2 | 3.2    | 3.2      | 3.2    |
| <b>K</b> 1,13  | Traversing in                 | core probe system                                                        |                                  | 2.0 | 3.0    | 2.0      | 3,0    |
| K1.14          | Reactor vesse                 |                                                                          |                                  | 2.8 | 2.9    | 2.8      | 2.9    |
| K1.15          | Redundant re                  | activity control system: Plant-Specific                                  |                                  | 3.7 | 4.0    | 3.7      | 4.0    |
| K1.16          | Flow convert                  | er/comparator network: Plant-Specific                                    |                                  | 3.3 | 3.4    | 3.3      | 3.4    |
| К2             | Knowledge of                  | electrical power supplies to the following:                              | (41.7)                           |     |        |          |        |
| 2.01           | LPRM chann                    | els                                                                      | -                                | 2.4 | 2.6    | 2.4      | 2.6    |
| <b>-x</b> 2.02 | APRM chann                    | els                                                                      |                                  | 2.6 | 2.8    | 2.6      | 2.8    |
| К3             | Knowledge of<br>APRM/LPRM     | the effect that a loss or malfunction of the<br>will have on following:  | (41.7 / 45.4)                    |     |        |          |        |
| K3.01          | RPS                           | -                                                                        |                                  | 4.0 | 4.0    | 4.0      | 4.0    |
| K3.02          | Reactor recirc                | culation system: BWR-5, 6                                                |                                  | 3.5 | 3.5    | 3.5      | 3.5    |
| K3.03          | Reactor manue                 | al control system: Plant Specific                                        |                                  | 3.3 | 3.3    | 3.3      | 3.3    |
| K3.04          | Rod control a                 | nd information system: Plant-Specific                                    |                                  | 3.4 | 3.4    | 3.4      | 3.4    |
| K3.05          | Reactor powe                  | er indication                                                            |                                  | 3.8 | 3,8    | 3.8      | 3.8    |
| K3.06          | IRM: Plant-S                  | pecific                                                                  |                                  | 3.5 | 3.6    | 3.5      | 3.6    |
| K3.07          | Rod block me                  | onitor: Plant-Specific                                                   |                                  | 3.2 | 3.3    | 3.2      | 3.3    |
| K3.08          | †core therma                  | calculations                                                             |                                  | 3.0 | 3.4    | 3.0      | 3.4    |

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Facility:

System Name:

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System Number:

|                                                 |     | Printe  | ed: 08/11/2006 |
|-------------------------------------------------|-----|---------|----------------|
| 215005                                          |     |         |                |
| Average Power Range Monitor/Local Power         |     | NRC Imp | Facility 1'    |
| Range Monitor System                            | CFR | RO SRO  | RO 1           |
| PRM/LPRM design feature(s) and/or (41.7) (41.7) |     |         |                |

| K4    | Knowledge of APRM/LPRM design feature(s) and/or                                                                     | (41.7)        |            |            |     |     |
|-------|---------------------------------------------------------------------------------------------------------------------|---------------|------------|------------|-----|-----|
|       | interlocks which provide for the following:                                                                         |               | ~ <b>~</b> | - <b>-</b> |     | 2 7 |
| K4.01 | Rod withdrawal blocks                                                                                               |               | 3.7        | 3.7        | 3.7 | 3.7 |
| K4.02 | Reactor SCRAM signals                                                                                               |               | 4.1*       | 4.2        | 4.1 | 4.2 |
| K4.03 | Eliminates the necessity of running signal leads from each LPRM channel to the operator's console full core display |               | 2.1*       | 2.2*       | 2.1 | 2.2 |
| K4.04 | Individual LPRM detector replacement                                                                                |               | 2.0*       | 2.4*       | 2,0 | 2.4 |
| K4.05 | Alarm seal-in                                                                                                       |               | 2.4        | 2.4        | 2.4 | 2.4 |
| K4.06 | Effects of detector aging on LPRM/APRM readings                                                                     |               | 2.6        | 2.8        | 2.6 | 2.8 |
| K4.07 | Flow biased trip setpoints                                                                                          |               | 3.7        | 3.7        | 3.7 | 3.7 |
| K4.08 | Sampling of overall core power in each APRM (accomplished through LPRM assignments and symmetrical rod patterns)    |               | 2.7        | 3.1        | 2.7 | 3.1 |
| К5    | Knowledge of the operational implications of the following concepts as they apply to APRM/LPRM:                     | (41.5 / 45.3) |            |            |     |     |
| K5.01 | LPRM detector operation                                                                                             |               | 2.8        | 2.9        | 2.8 | 2.9 |
| K5.02 | Effects of voids on LPRM indication                                                                                 |               | 2.7        | 2.8        | 2.7 | 2.8 |
| K5.03 | Control rod symmetrical patterns                                                                                    |               | 2.9        | 3.3        | 2.9 | 3.3 |
| K5.04 | LPRM detector location and core symmetry                                                                            |               | 2.9        | 3.2        | 2.9 | 3.2 |
| K5.05 | Core flow effects on APRM trip setpoints                                                                            |               | 3.6        | 3.6        | 3.6 | 3.6 |
| K5.06 | Assignment of LPRM's to specific APRM channels                                                                      |               | 2.5*       | 2.6*       | 2.5 | 2   |
| K6    | Knowledge of the effect that a loss or malfunction of the following will have on the APRM/LPRM:                     | (41.7 / 45.7) |            |            |     |     |
| K6.01 | RPS                                                                                                                 |               | 3.7        | 3.8        | 3.7 | 3.8 |
| K6.02 | †Traversing incore probe system                                                                                     |               | 2.4        | 2.8        | 2.4 | 2.8 |
| K6.03 | Detectors                                                                                                           |               | 3.1        | 3.3        | 3.1 | 3.3 |
| K6.04 | Trip units                                                                                                          |               | 3.1        | 3.2        | 3.1 | 3.2 |
| K6.05 | IRM: Plant-Specific                                                                                                 |               | 2.9        | 3.1        | 2.9 | 3.1 |
| K6.06 | Recorder                                                                                                            |               | 2.3        | 2.4        | 2.3 | 2.4 |
| K6.07 | Flow converter/comparator network: Plant-Specific                                                                   |               | 3.2        | 3.3        | 3.2 | 3.3 |
| Al    | Ability to predict and/or monitor changes in parameters associated with operating the APRM/LPRM controls including: | (41.5 / 45.5) |            |            |     |     |
| A1.01 | Reactor power indication                                                                                            |               | 4.0        | 4.0        | 4.0 | 4.0 |
| A1.02 | RPS status                                                                                                          |               | 3.9        | 4.0        | 3.9 | 4.0 |
| A1.03 | Control rod block status                                                                                            |               | 3.6        | 3.6        | 3.6 | 3.6 |
| A1.04 | SCRAM and rod block trip setpoints                                                                                  |               | 4.1        | 4.1        | 4.1 | 4.1 |
| A1.05 | Lights and alarms                                                                                                   |               | 3.3        | 3.2        | 3.3 | 3.2 |
| A1.06 | Recirculation flow control valve position: Plant-Specific                                                           |               | 3.1        | 3.3        | 3.1 | 3.3 |
| A1.07 | APRM (gain adjustment factor)                                                                                       |               | 3.0        | 3.4        | 3.0 | 3.4 |

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|        | System Number:                                   | 215005                                                                                                                       |                       |      |            |               |        |
|--------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|------------|---------------|--------|
|        | <u>System Name:</u>                              | Average Power Range Monitor/Local Po                                                                                         | wer                   | NRC  | <u>lmp</u> | <u>Facilí</u> | ty Imp |
|        |                                                  | Range Monitor System                                                                                                         | CFR                   | RO   | SRO        | RO            | SRO    |
| A2     | Ability to (a) p<br>APRM/LPRM<br>procedures to c | redict the impacts of the following on the<br>; and (b) based on those predictions, use<br>correct, control, or mitigate the | (41.5 / 45.6)         |      |            |               |        |
|        | consequences o                                   | of those abnormal conditions or operations:                                                                                  |                       |      |            |               |        |
| A2.01  | Power supply                                     | degraded                                                                                                                     |                       | 2.7  | 3.1        | 2.7           | 3.1    |
| A2.02  | Upscale or do                                    | wnscale trips                                                                                                                |                       | 3.6  | 3.7        | 3.6           | 3.7    |
| A2.03  | Inoperative tri                                  | p (all causes)                                                                                                               |                       | 3.6  | 3.8        | 3.6           | 3.8    |
| A2.04  | SCRAM trip s                                     | signals                                                                                                                      |                       | 3.8  | 3.9        | 3.8           | 3.9    |
| A2.05  | Loss of recirc                                   | ulation flow signal                                                                                                          |                       | 3.5  | 3.6        | 3.5           | 3.6    |
| A2.06  | Recirculation                                    | flow channels upscale                                                                                                        |                       | 3.4  | 3.5        | 3.4           | 3.5    |
| A2.07  | Recirculation                                    | flow channels flow mismatch                                                                                                  |                       | 3.2  | 3.4        | 3.2           | 3.4    |
| A2.08  | Faulty or errat                                  | tic operation of detectors/systems                                                                                           |                       | 3.2  | 3.4        | 3.2           | 3.4    |
| A2.09  | Failed recorde                                   | r                                                                                                                            |                       | 2.4* | 2.4        | 2.4           | 2.4    |
| A2.10  | Changes in vo                                    | id concentration                                                                                                             |                       | 2.8  | 2.9        | 2.8           | 2.9    |
| A3     | Ability to mon<br>APRM/LPRM                      | itor automatic operations of the including:                                                                                  | (41.7 / 45.7)         |      |            |               |        |
| A3.01  | Four rod displ                                   | ay: Plant-Specific                                                                                                           |                       | 3.5  | 3.5        | 3.5           | 3.5    |
| A3.02  | Full core disp                                   | lay                                                                                                                          |                       | 3.5  | 3.5        | 3.5           | 3.5    |
| A3.03  | Meters and re                                    | corders                                                                                                                      |                       | 3.3  | 3.3        | 3.3           | 3.3    |
| A3.04  | Annunciator a                                    | ind alarm signals                                                                                                            |                       | 3.2  | 3.2        | 3.2           | 3.2    |
| 13.05  | Flow converte                                    | er/comparator alarms                                                                                                         |                       | 3.3  | 3.3        | 3.3           | 3.3    |
| -A3.06 | Maximum dis<br>channels: Plar                    | agreement between flow comparator                                                                                            |                       | 3.0  | 3.1        | 3.0           | 3.1    |
| A3 07  | RPS status                                       | · · · /· - · · · ·                                                                                                           |                       | 3.8  | 3.8        | 3.8           | 3.8    |
| A3.08  | Control rod bl                                   | lock status                                                                                                                  |                       | 3.7  | 3.6        | 3.7           | 3.6    |
| A4     | Ability to man                                   | ually operate and/or monitor in the control                                                                                  | (41.7 / 45.5 to 45.8) |      |            |               |        |
|        | room:                                            |                                                                                                                              |                       |      | <u>.</u>   | 2.0           | 2.1    |
| A4.01  | IRM/APRM r                                       | recorder                                                                                                                     |                       | 3.2  | 5.1        | 3.2           | 3.1    |
| A4.02  | CRT display                                      | indicators: Plant-Specific                                                                                                   |                       | 2.8  | 2.8        | 2.8           | 2.8    |
| A4.03  | APRM back p                                      | banel switches, meters and indicating lights                                                                                 |                       | 3.2  | 3.3        | 3.2           | 3.3    |
| A4.04  | LPRM back p                                      | anel switches, meters and indicating lights                                                                                  |                       | 3.2  | 3.2        | 3.2           | 3.2    |
| A4.05  | Trip bypasses                                    |                                                                                                                              |                       | 3.4  | 3.4        | 3.4           | 3.4    |
| A4.06  | Verification o                                   | of proper functioning/ operability                                                                                           |                       | 3.6  | 3.8        | 3.6           | 3.8    |

Facility Imp

NRC Imp

| System | Number: | 216000 |
|--------|---------|--------|
| 0,000  |         |        |

Facility: CPS

| System Name: | Nuclear Boiler Instrumentation |
|--------------|--------------------------------|
| System Name: | Nuclear Doner mistrumentation  |

|               |                                                                                                                                          | CFR                              | RO   | SRO  | RO  | SRO |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------|-----|-----|
| K1            | Knowledge of the physical connections and/or cause-<br>effect relationships between NUCLEAR BOILER<br>INSTRUMENTATION and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |     |     |
| K1.01         | Reactor protection system                                                                                                                |                                  | 3.9  | 4.1  | 3.9 | 4.1 |
| K1.02         | PCIS/NSSSS                                                                                                                               |                                  | 3.8  | 4.0  | 3.8 | 4.0 |
| K1.03         | Reactor core isolation cooling system: Plant-Specific                                                                                    |                                  | 3.4  | 3.6  | 3.4 | 3.6 |
| K1.04         | High pressure core spray system: Plant-Specific                                                                                          |                                  | 3.9  | 4.0  | 3.9 | 4.0 |
| K1.05         | Residual heat removal: Plant-Specific                                                                                                    |                                  | 3.7  | 3.9  | 3.7 | 3.9 |
| K1.06         | Low pressure core spray                                                                                                                  |                                  | 3.9  | 3.9  | 3.9 | 3.9 |
| K1.07         | Automatic depressurization system                                                                                                        |                                  | 3.9  | 4.1  | 3.9 | 4.1 |
| K1.08         | Relief/safety valves                                                                                                                     |                                  | 3.7  | 3.9  | 3.7 | 3.9 |
| K1.09         | Redundant reactivity control/alternate rod insertion;<br>Plant-Specific                                                                  |                                  | 3.7  | 4.0  | 3.7 | 4.0 |
| K1.10         | Recirculation flow control system                                                                                                        |                                  | 3.2  | 3.4  | 3.2 | 3.4 |
| K1.11         | MSIV leakage control system: Plant-Specific                                                                                              |                                  | 2.7  | 2.8  | 2.7 | 2.8 |
| K1.12         | Reactor water level control system                                                                                                       |                                  | 3.6  | 3.7  | 3.6 | 3.7 |
| K1.13         | Feedwater system                                                                                                                         |                                  | 3.4  | 3.5  | 3.4 | 3.5 |
| K1.14         | High pressure coolant injection: Plant Specific                                                                                          |                                  | 3.8  | 4.1* | 3.8 | 4.1 |
| K1.15         | Isolation condenser: Plant-Specific                                                                                                      |                                  | 3.9* | 4.1* | 3.9 | 4.1 |
| K1.16         | Main turbine                                                                                                                             |                                  | 3.0  | 3.1  | 3.0 | 3.1 |
| K1.17         | Emergency generators                                                                                                                     |                                  | 3.5  | 3.7  | 3.5 | 3.7 |
| K1.18         | Analog trip system: Plant-Specific                                                                                                       |                                  | 3.0* | 3.1  | 3.0 | 3.1 |
| K1.19         | Anticipated transient without scram system: Plant-Specific                                                                               |                                  | 3.8  | 3.9  | 3.8 | 3.9 |
| <b>K</b> 1.20 | Process computer: Plant-Specific                                                                                                         |                                  | 2.6  | 2.8  | 2.6 | 2.8 |
| K1.21         | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                                                                      |                                  | 2.6* | 2.9* | 2.6 | 2.9 |
| K1.22         | Reactor vessel                                                                                                                           |                                  | 3.6  | 3.8  | 3.6 | 3.8 |
| K1.23         | Recirculation system                                                                                                                     |                                  | 3.3  | 3.4  | 3.3 | 3.4 |
| К2            | Knowledge of electrical power supplies to the following:                                                                                 | (41.7)                           |      |      |     |     |
| K2.01         | Analog trip system: Plant-Specific                                                                                                       |                                  | 2.8  | 2.8  | 2.8 | 2.8 |

|       | Facility: CPS                          |                                                                                  |               |      | Printe | d: 08/1  | 1/2006             |
|-------|----------------------------------------|----------------------------------------------------------------------------------|---------------|------|--------|----------|--------------------|
|       | System Number:                         | 216000                                                                           |               |      |        |          |                    |
|       | System Nome:                           | Nuclear Boiler Instrumentation                                                   |               | NRC  | Imp    | Facili   | tv Ir              |
|       | <u>System Itanie.</u>                  |                                                                                  | CFR           | RO   | SRO    | RO<br>RO | <u>(y 1</u> )<br>( |
| КЗ    | Knowledge of the NUCLEAR BO following: | he effect that a loss or malfunction of the<br>ILER Instrumentation will have on | (41.7 / 45.4) |      |        |          |                    |
| K3.01 | Reactor protec                         | tion system                                                                      |               | 4.0  | 4.3*   | 4.0      | 4.3                |
| K3.02 | PCIS/NSSSS                             |                                                                                  |               | 4.0  | 4.3*   | 4.0      | 4.3                |
| K3.03 | Reactor core is                        | olation cooling system: Plant-Specific                                           |               | 3.5  | 3.8    | 3.5      | 3.8                |
| K3.04 | High pressure                          | core spray system: Plant-Specific                                                |               | 3.8  | 4.0    | 3.8      | 4.0                |
| K3.05 | Residual heat r                        | emoval: Plant-Specific                                                           |               | 3.8  | 3.9    | 3.8      | 3.9                |
| K3.06 | Low pressure of                        | core spray                                                                       |               | 3.8  | 3.9    | 3.8      | 3.9                |
| K3.07 | Automatic dep                          | ressurization system                                                             |               | 3.9  | 4.1    | 3.9      | 4.1                |
| K3.08 | Relief/safety v                        | alves                                                                            |               | 3.6  | 3.7    | 3.6      | 3.7                |
| K3.09 | Redundant rea<br>Plant-Specific        | ctivity control/ alternate rod insertion:                                        |               | 3.7  | 4.0    | 3.7      | 4.0                |
| K3.10 | Recirculation f                        | low control system                                                               |               | 3.2  | 3.3    | 3.2      | 3.3                |
| K3.11 | MSIV leakage                           | control system: Plant-Specific                                                   |               | 2.8  | 2.8    | 2.8      | 2.8                |
| K3.12 | Reactor water                          | level control system                                                             |               | 3.7  | 3.8    | 3.7      | 3.8                |
| K3.13 | Feedwater syst                         | em                                                                               |               | 3.4  | 3.5    | 3.4      | 3.5                |
| K3.14 | High pressure c                        | oolant injection: Plant-Specific                                                 |               | 3.8  | 4.2*   | 3.8      | 4.2                |
| K3.15 | Isolation conde                        | nser: Plant-Specific                                                             |               | 3.8  | 4.2*   | 3.8      | 4.2                |
| K3.16 | Main turbine                           |                                                                                  |               | 3.0  | 3.1    | 3.0      | 3.1                |
| K3.17 | Emergency gen                          | nerators                                                                         |               | 3.5  | 3.7    | 3.5      | 3.7                |
| K3.18 | Analog trip sys                        | stem: Plant-Specific                                                             |               | 2.9* | 3.0    | 2.9      | 3.0                |
| K3.19 | Anticipated tra                        | insient without scram system: Plant-Specific                                     |               | 3.7  | 4.0*   | 3.7      |                    |
| K3.20 | Process compu                          | iter: Plant-Specific                                                             |               | 2.5  | 2.6    | 2.5      | 2.0                |
| K3.21 | SPDS/ERIS/C                            | RIDS/GDS: Plant-Specific                                                         |               | 2.6* | 2.8*   | 2.6      | 2.8                |
| K3.22 | Reactor vessel                         |                                                                                  |               | 3.2  | 3.3    | 3.2      | 3.3                |
| K3.23 | Vessel tempera                         | ature monitoring                                                                 |               | 3.1  | 3.3    | 3.1      | 3.3                |
| K3.24 | Vessel level m                         | onitoring                                                                        |               | 3.9  | 4.1    | 3.9      | 4.1                |
| К3.25 | Vessel pressur                         | e monitoring                                                                     |               | 3.9  | 4.1    | 3.9      | 4.1                |
| K3.26 | Core flow mor                          | nitoring                                                                         |               | 3.6  | 3.7    | 3.6      | 3.7                |
| K3.27 | Core differenti                        | al pressure monitoring                                                           |               | 2.9  | 3.1    | 2.9      | 3.1                |
| K3.28 | Loose parts de                         | tection in the primary system: Plant-Specific                                    |               | 2.0* | 2.1*   | 2.0      | 2.1                |
| K3.29 | Jet pump flow                          | monitoring: Plant-Specific                                                       |               | 3.1  | 3.2    | 3.1      | 3.2                |
| K3.30 | Recirculation s                        | system                                                                           |               | 3.2  | 3.3    | 3.2      | 3.3                |

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|       | Facility: CPS                                                                                                          |        |     |            | Printe | ed: 08/1      | 1/2006         |
|-------|------------------------------------------------------------------------------------------------------------------------|--------|-----|------------|--------|---------------|----------------|
|       | System Number: 216000                                                                                                  |        |     |            |        |               |                |
|       | System Name: Nuclear Boiler Instrumentation                                                                            |        |     | <u>NRC</u> | lmp    | <u>Facili</u> | t <u>y Imp</u> |
|       |                                                                                                                        |        | CFR | RO         | SRO    | RO            | SRO            |
| K4    | Knowledge of NUCLEAR BOILER<br>INSTRUMENTATION design feature(s) and/or<br>interlocks which provide for the following: | (41.7) |     |            |        |               |                |
| K4.01 | Reading of nuclear boiler parameters outside the control room                                                          |        |     | 3.6        | 3.6    | 3.6           | 3.6            |
| K4.02 | Physical separation of sensors                                                                                         |        |     | 3.0        | 3.2    | 3.0           | 3.2            |
| K4.03 | Redundancy of sensors                                                                                                  |        |     | 3.4        | 3.6    | 3.4           | 3.6            |
| K4.04 | Inputs to the reactor protection system                                                                                |        |     | 3.7        | 3.8    | 3.7           | 3.8            |
| K4.05 | Initiation of the emergency core cooling systems                                                                       |        |     | 3.9        | 4.1    | 3.9           | 4.1            |
| K4.06 | Initiation of the PCIS/NSSSS                                                                                           |        |     | 3.8        | 4.0    | 3.8           | 4.0            |
| K4.07 | Recirculation pump protection: Plant-Specific                                                                          |        |     | 2.9        | 3.0    | 2.9           | 3.0            |
| K4.08 | Protection for the main turbine from high moisture carryover                                                           |        |     | 2.9        | 3.0    | 2.9           | 3.0            |
| K4.09 | Protection against filling the main steam lines from the feed system                                                   |        |     | 3.3        | 3.3    | 3.3           | 3.3            |
| K4.10 | Automatic recirculation pump speed control: Plant-Specific                                                             |        |     | 2.9        | 3.1    | 2.9           | 3.1            |
| K4.11 | Inputs to the redundant reactivity control system/alternate rod insertion: Plant-Specific                              |        |     | 4.0        | 4.0    | 4.0           | 4.0            |
| K4.12 | Reactor vessel overpressure protection                                                                                 |        |     | 3.7        | 3.9    | 3.7           | 3.9            |
| K4.13 | Overpressure protection for various low-pressure systems                                                               |        |     | 3.4        | 3.4    | 3.4           | 3.4            |
| K4.14 | Temperature compensation for reactor water level indication: Plant-Specific                                            |        |     | 3.3        | 3.4    | 3.3           | 3.4            |

|       | Facility: CPS                                   |                                                                                                           |               | Printe | d: 08/1 | 1/2006 |           |
|-------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|--------|---------|--------|-----------|
|       | System Number:                                  | 216000                                                                                                    |               |        |         |        |           |
|       | System Name:                                    | Nuclear Boiler Instrumentation                                                                            |               | NRC    | Imn     | Facili | tv 1      |
|       | System Mame:                                    | Nuclear Doner first unertation                                                                            | CFR           | RO     | SRO     | RO     | <u>5.</u> |
| K5    | Knowledge of (                                  | the operational implications of the                                                                       | (41.5 / 45.3) |        |         |        |           |
|       | following conce<br>INSTRUMEN                    | epts as they apply to NUCLEAR BOILER                                                                      |               |        |         |        |           |
| K5.01 | Vessel level n                                  | neasurement                                                                                               |               | 3.1    | 3.2     | 3.1    | 3.2       |
| K5.02 | Vessel pressu                                   | re measurement                                                                                            |               | 3.1    | 3.2     | 3.1    | 3.2       |
| K5.03 | Vessel temper                                   | ature measurement                                                                                         |               | 3.0    | 3.2     | 3.0    | 3.2       |
| K5.04 | Vessel differe                                  | ntial pressure measurement                                                                                |               | 2.8    | 2.9     | 2.8    | 2.9       |
| K5.05 | Vessel vibrati                                  | on measurement (loose parts monitor)                                                                      |               | 2.3    | 2.3     | 2.3    | 2.3       |
| K5.06 | Rapid vessel of<br>indications                  | epressurization effects on vessel level                                                                   |               | 3.4    | 3.6     | 3.4    | 3.6       |
| K5.07 | Elevated containdication                        | ainment temperature effects on level                                                                      |               | 3.6    | 3.8     | 3.6    | 3.8       |
| K5.08 | Steam flow ef                                   | fect on reactor water level                                                                               |               | 3.1    | 3.2     | 3.1    | 3.2       |
| K5.09 | Recirculation<br>Design-Specif                  | flow effects on level indications:<br>fic                                                                 |               | 2.9    | 2.9     | 2.9    | 2.9       |
| K5.10 | Indicated leve<br>heatups or coo                | l versus actual vessel level during vessel<br>oldowns                                                     |               | 3.1    | 3.3     | 3.1    | 3.3       |
| K5.11 | Indicated vess<br>or cooldowns                  | el temperature response during rapid heatups                                                              |               | 3.2    | 3.3     | 3.2    | 3.3       |
| K5.12 | Effects on lev<br>fraction                      | el indication due to rapid changes in void                                                                |               | 3.2    | 3.3     | 3.2    | 3.3       |
| K5.13 | Reference leg                                   | flashing: Design-Specific                                                                                 |               | 3.5    | 3.6     | 3.5    | 3.6       |
| K5.14 | Density                                         |                                                                                                           |               | 2.6    | 2.6     | 2.6    |           |
| K5.15 | Static pressur                                  | e                                                                                                         |               | 2.2*   | 2.2*    | 2.2    | 2         |
| K5.16 | Dynamic pres                                    | sure                                                                                                      |               | 2.1*   | 2.1*    | 2.1    | 2.1       |
| K6    | Knowledge of<br>following will l<br>INSTRUMEN   | the effect that a loss or malfunction of the<br>bave on the NUCLEAR BOILER<br>TATION:                     | (41.7 / 45.7) |        |         |        |           |
| K6.01 | A.C. electrica                                  | l distribution                                                                                            |               | 3.1    | 3.3     | 3.1    | 3.3       |
| K6.02 | D.C. electrica                                  | l distribution                                                                                            |               | 2.8    | 3.0     | 2.8    | 3.0       |
| K6.03 | Temperature                                     | compensation: Plant-Specific                                                                              |               | 2.8    | 2.8     | 2.8    | 2.8       |
| A1    | Ability to pred<br>associated with<br>INSTRUMEN | lict and/or monitor changes in parameters<br>h operating the NUCLEAR BOILER<br>TATION controls including: | (41.5 / 45.5) |        |         |        |           |
| A1.01 | Recorders and                                   | d meters                                                                                                  |               | 3.4    | 3.3     | 3.4    | 3.3       |
| A1.02 | Removing or                                     | returning a sensor (transmitter) to service                                                               |               | 2.9*   | 3.1*    | 2.9    | 3.1       |
| A1.03 | Surveillance                                    | testing                                                                                                   |               | 2.9*   | 3.2*    | 2.9    | 3.2       |
| A1.04 | System vention                                  | ng                                                                                                        |               | 2.6*   | 2.8*    | 2.6    | 2.8       |

A2

A2.01 A2.02

A2.03

A2.04

A2.05

A2.06

A2.07

A2.08 A2.09 A2.10 A2.11 A2.12

A2.13

A2.14

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3.01

A4

|                                           |                                                                                                                 | 0                  |     |     |        |               |        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|--------|---------------|--------|
| Facility: CPS                             |                                                                                                                 |                    |     |     | Printe | ed: 08/1      | 1/200  |
| ystem Number: 21                          | 6000                                                                                                            |                    |     |     |        |               |        |
| <u>ystem Name:</u> Nu                     | clear Boiler Instrumentation                                                                                    |                    |     | NRC | Imp    | <u>Facili</u> | ty Imp |
|                                           |                                                                                                                 |                    | CFR | RO  | SRO    | RO            | SRG    |
| Ability to (a) predic                     | t the impacts of the following on t                                                                             | he (41.5 / 45.6)   |     |     |        |               |        |
| NUCLEAR BOILE                             | R INSTRUMENTATION; and (b                                                                                       | )                  |     |     |        |               |        |
| based on those pred                       | ictions, use procedures to correct                                                                              | ,                  |     |     |        |               |        |
| control, or mitigate                      | the consequences of those abnorn                                                                                | nal                |     |     |        |               |        |
| conditions or operat                      | tions:                                                                                                          |                    |     | • • |        | •             |        |
| Detector equalizing                       | g valve leaks                                                                                                   |                    |     | 2.9 | 3.2    | 2.9           | 3.2    |
| Instrument line plu                       | gging                                                                                                           |                    |     | 2.9 | 3.0    | 2.9           | 3.0    |
| Instrument line leal                      | kage                                                                                                            |                    |     | 3.0 | 3.1    | 3.0           | 3.1    |
| Detector diaphragm                        | n failure or leakage                                                                                            |                    |     | 2.9 | 3.0    | 2.9           | 3.0    |
| Surveillance testing                      | 2                                                                                                               |                    |     | 2.8 | 3.1    | 2.8           | 3.1    |
| Loss of power supply                      |                                                                                                                 |                    |     | 2.9 | 3.1    | 2.9           | 3.1    |
| Reference leg flash                       | ing                                                                                                             |                    |     | 3.4 | 3.5    | 3.4           | 3.5    |
| Elevated containme                        | ent temperature                                                                                                 |                    |     | 3.2 | 3.4    | 3.2           | 3.4    |
| Jet pump flow: Des                        | sign-Specific                                                                                                   |                    |     | 3.1 | 3.2    | 3.1           | 3.2    |
| Rapid vessel depres                       | ssurizations                                                                                                    |                    |     | 3.3 | 3.5    | 3.3           | 3.5    |
| Heatup or cooldow                         | m of the reactor vessel                                                                                         |                    |     | 3.2 | 3.3    | 3.2           | 3.3    |
| Instrument isolation                      | n valve closures                                                                                                |                    |     | 2.8 | 2.9    | 2.8           | 2.9    |
| Instrument isolation                      | n valve openings                                                                                                |                    |     | 2.8 | 3.0    | 2.8           | 3.0    |
| Recirculation flow:                       | Design-Specific                                                                                                 |                    |     | 2.9 | 2.9    | 2.9           | 2.9    |
| Ability to monitor a<br>BOILER Instrumer  | utomatic operations of the NUCI<br>ntation including:                                                           | .EAR (41.7 / 45.7) |     |     |        |               |        |
| Relationship betwe<br>parameter values: H | en meter/recorder readings and actueled and actueled actueled actueled actueled actueled actueled actueled actu | al                 |     | 3.4 | 3.4    | 3.4           | 3.4    |

|       | FOOM:                             |     |     |     |     |
|-------|-----------------------------------|-----|-----|-----|-----|
| A4.01 | Recorders                         | 3.3 | 3.1 | 3.3 | 3.1 |
| A4.02 | Channel select controls           | 3.3 | 3.1 | 3.3 | 3.1 |
| A4.03 | Process computer: Design-Specific | 3.0 | 3.1 | 3.0 | 3.1 |

|                | Facility: CPS                                                                                                                                             |                                  |      | Printe | ed: 08/1 | 1/2006 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|--------|----------|--------|
|                | System Number: 217000                                                                                                                                     |                                  |      |        |          |        |
|                | System Name: Reactor Core Isolation Cooling Syst                                                                                                          | em (RCIC)                        | NRC  | Imp    | Facili   | tv Imo |
|                | <u>Ofsten Marci</u> Reactor Core Isolation Cooling Syst                                                                                                   | CFR                              | RO   | SRO    | RO       | SRO    |
| К1             | Knowledge of the physical connections and/or cause-<br>effect relationships between REACTOR CORE<br>ISOLATION COOLING SYSTEM (RCIC) and the<br>following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |        |          |        |
| K1 01          | Condensate storage and transfer system                                                                                                                    |                                  | 3.5  | 3.5    | 3.5      | 3.5    |
| K1.07          | Nuclear hoiler system                                                                                                                                     |                                  | 3.5  | 3.5    | 3.5      | 3.5    |
| K1.02          | Suppression pool                                                                                                                                          |                                  | 3.6  | 2.6    | 3.6      | 2.6    |
| K1 04          | Main condenser                                                                                                                                            |                                  | 2.6  | 2.6    | 2.6      | 2.6    |
| K1.07          | Residual heat removal system                                                                                                                              |                                  | 2.6  | 2.6    | 2.6      | 2.6    |
| K1 06          | Plant air systems: Plant-Specific                                                                                                                         |                                  | 2.3* | 2.3*   | 2.3      | 2.3    |
| K1 07          | Leak detection                                                                                                                                            |                                  | 3.1  | 3.2    | 3.1      | 3.2    |
| K1.08          | Line fill pump: Plant-Specific                                                                                                                            |                                  | 3.3  | 3.4    | 3.3      | 3.4    |
| К2             | Knowledge of electrical power supplies to the following                                                                                                   | ng: (41.7)                       |      |        |          |        |
| K2.01          | Motor operated valves                                                                                                                                     |                                  | 2.8* | 2.8*   | 2.8      | 2.8    |
| K2.02          | RCIC initiation signals (logic)                                                                                                                           |                                  | 2.8* | 2.9*   | 2.8      | 2.9    |
| K2.03          | RCIC flow controller                                                                                                                                      |                                  | 2.7* | 2.8*   | 2.7      | 2.8    |
| K2.04          | Gland seal compressor (vacuum pump)                                                                                                                       |                                  | 2.6* | 2.6*   | 2.6      | 2.6    |
| К3             | Knowledge of the effect that a loss or malfunction of<br>REACTOR CORE ISOLATION COOLING SYSTE                                                             | the (41.7 / 45.4)<br>M           |      |        |          |        |
| V2.01          | (RCIC) will have on following:                                                                                                                            |                                  | 37   | 37     | 37       | 37     |
| K3.01          | Reactor water level                                                                                                                                       |                                  | 3.6  | 3.6    | 3.6      | 3.6    |
| K3.02          | Deven heat remained                                                                                                                                       |                                  | 3.5  | 3.5    | 35       | 3.5    |
| K3.03<br>K3.04 | Adequate core cooling                                                                                                                                     |                                  | 3.6  | 3.6    | 3.6      | 3.6    |
| K4             | Knowledge of REACTOR CORE ISOLATION<br>COOLING SYSTEM (RCIC) design feature(s) and/o<br>interlocks which provide for the following:                       | (41.7)<br>or                     |      |        |          |        |
| K4.01          | Prevent water hammer: Plant-Snecific                                                                                                                      |                                  | 2.8  | 2.8    | 2.8      | 2.8    |
| K4.02          | Prevent over filling reactor vessel                                                                                                                       |                                  | 3.3  | 3.3    | 3.3      | 3.3    |
| K4.03          | Prevents pump over heating                                                                                                                                |                                  | 2.9  | 3.0    | 2.9      | 3.0    |
| K4.04          | Prevents turbine damage: Plant-Specific                                                                                                                   |                                  | 3.0  | 3.1    | 3.0      | 3.1    |
| K4.05          | Prevents radioactivity release to auxiliary/reactor build                                                                                                 | ling                             | 3.2  | 3.5    | 3.2      | 3.5    |
| K4.06          | Manual initiation                                                                                                                                         | ~                                | 3.5  | 3.5    | 3.5      | 3.5    |
| K4.07          | Alternate supplies of water                                                                                                                               |                                  | 3.6  | 3.6    | 3.6      | 3.6    |

Facility: CPS

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| 08/11/2006 |
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|        | System Number:                                    | 217000                                                                                                      |               |     |            |            |            |                   |
|--------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|-----|------------|------------|------------|-------------------|
|        | System Name:                                      | Reactor Core Isolation Cooling System (                                                                     | RCIC)         |     | NRC        | Imp        | Facili     | ty I <sup>,</sup> |
|        |                                                   |                                                                                                             |               | CFR | RO         | SRO        | RO         | <u>۔</u>          |
| К5     | Knowledge of<br>following conc<br>ISOLATION (     | the operational implications of the<br>epts as they apply to REACTOR CORE<br>COOLING SYSTEM (RCIC):         | (41.5 / 45.3) |     |            |            |            |                   |
| K5.01  | Indications of                                    | pump cavitation                                                                                             |               |     | 2.6*       | 2.6*       | 2.6        | 2.6               |
| K5.02  | Flow indication                                   | on                                                                                                          |               |     | 3.1        | 3.1        | 3.1        | 3.1               |
| K5.03  | Differential p                                    | ressure indication                                                                                          |               |     | 2.6        | 2.6        | 2.6        | 2.6               |
| K5.04  | Testable chec                                     | k valve operation                                                                                           |               |     | 2.6        | 2.7        | 2.6        | 2.7               |
| K5.05  | Centrifugal p                                     | ump operation                                                                                               |               |     | 2.4*       | 2.4*       | 2.4        | 2.4               |
| K5.06  | Turbine opera                                     | ation                                                                                                       |               |     | 2.7*       | 2.7        | 2.7        | 2.7               |
| K5.07  | Assist core co                                    | ooling                                                                                                      |               |     | 3.1        | 3.1        | 3.1        | 3.1               |
| K6     | Knowledge of<br>following will<br>ISOLATION (     | the effect that a loss or malfunction of the have on the REACTOR CORE                                       | (41.7 / 45.7) |     |            |            |            |                   |
| K6.01  | Electrical pov                                    | ver                                                                                                         |               |     | 3.4        | 3.5        | 3.4        | 3.5               |
| K6.02  | Plant air syste                                   | ems                                                                                                         |               |     | 2.2*       | 2.2*       | 2.2        | 2.2               |
| K6.03  | Suppression p                                     | bool water supply                                                                                           |               |     | 3.5        | 3.5        | 3.5        | 3.5               |
| K6.04  | Condensate s                                      | torage and transfer system                                                                                  |               |     | 3.5        | 3.5        | 3.5        | 3.5               |
| A1     | Ability to pred<br>associated with<br>ISOLATION ( | lict and/or monitor changes in parameters<br>h operating the REACTOR CORE<br>COOLING SYSTEM (RCIC) controls | (41.5 / 45.5) |     |            |            |            |                   |
|        | including:                                        |                                                                                                             |               |     | - <b>-</b> | - <b>-</b> | 2.7        | 2.7               |
| A1.01  | RCIC flow                                         |                                                                                                             |               |     | 3.1        | 3.1        | 2.1        | 2.7               |
| A1.02  | RCIC pressur                                      |                                                                                                             |               |     | 5.5        | 3.3        | 3.3<br>4.0 | 2.2               |
| A1.03  | Reactor water                                     | r level                                                                                                     |               |     | 4.0        | 4.0        | 4.0        | 4.0               |
| A 1.04 | Reactor press                                     | ure                                                                                                         |               |     | 3.0        | 3.0        | 3.0        | 2.0               |
| A1.05  | Condonasta a                                      | specu<br>torage tank level                                                                                  |               |     | 3.7        | 3.7        | 37         | 3.3               |
| A 1.00 | Concensate s                                      | norage talls tevel                                                                                          |               |     | 33         | 35         | 33         | 3.5               |
| A1.07  | Suppression j                                     | and temperature                                                                                             |               |     | 3.5        | 3.6        | 35         | 3.6               |
| 711.00 | Suppression I                                     | poor temperature                                                                                            |               |     | J          | 5.0        | 0.0        | 2.0               |

|       | Facility: CPS                  | 3                                                                       |               |            | Printe | d: 08/1 | 1/2006 |
|-------|--------------------------------|-------------------------------------------------------------------------|---------------|------------|--------|---------|--------|
|       | System Number:                 | 217000                                                                  |               |            |        |         |        |
|       | System Name:                   | Reactor Core Isolation Cooling System (R                                | CIC)          | NRC        | Imp    | Facilit | y Imp  |
|       | <u>0,000,000</u>               |                                                                         | CFR           | RO         | SRO    | RO      | SRO    |
| A2    | Ability to (a) p<br>REACTOR CO | redict the impacts of the following on the ORE ISOLATION COOLING SYSTEM | (41.5 / 45.6) |            |        |         |        |
|       | (RCIC); and (l                 | b) based on those predictions, use                                      |               |            |        |         |        |
|       | procedures to (                | correct, control, or mitigate the                                       |               |            |        |         |        |
|       | consequences o                 | of those abnormal conditions or operations:                             |               |            |        | •       |        |
| A2.01 | System initiat                 | ion signal                                                              |               | 3.8        | 3.7    | 3.8     | 3.7    |
| A2.02 | Turbine trips                  |                                                                         |               | 3.8        | 3.7    | 3.8     | 3.7    |
| A2.03 | Valve closure                  | S                                                                       |               | 3.4        | 3.3    | 3.4     | 3.3    |
| A2.04 | A.C. power lo                  | DSS                                                                     |               | 2.3*       | 2.3*   | 2.3     | 2.3    |
| A2.05 | D.C. power lo                  | 985                                                                     |               | 3.3        | 3.3    | 3.3     | 3.3    |
| A2.06 | Loss of applic                 | cable plant air systems                                                 |               | 2.2*       | 2.2*   | 2.2     | 2.2    |
| A2.07 | Loss of lube of                | bil                                                                     |               | 3.1        | 3.1    | 3.1     | 3.1    |
| A2.08 | Loss of lube of                | oil cooling                                                             |               | 3.0        | 3.1    | 3.0     | 3.1    |
| A2.09 | Loss of vacuu                  | ım pump                                                                 |               | 2.9        | 3.0    | 2.9     | 3.0    |
| A2.10 | Turbine contr                  | ol system failures                                                      |               | 3.1        | 3.1    | 3.1     | 3.1    |
| A2.11 | Inadequate sy                  | stem flow                                                               |               | 3.1        | 3.2    | 3.1     | 3.2    |
| A2.12 | Valve opening                  | gs                                                                      |               | 3.0        | 3.0    | 3.0     | 3.0    |
| A2.13 | Loss of room                   | cooling                                                                 |               | 2.9        | 3.0    | 2.9     | 3.0    |
| A2.14 | Rupture disc f                 | failure: Exhaust-Diaphragm                                              |               | 3.3        | 3.4    | 3.3     | 3.4    |
| A2.15 | Steam line bro                 | eak                                                                     |               | 3.8        | 3.8    | 3.8     | 3.8    |
| A2.16 | Low Condens                    | sate storage tank level                                                 |               | 3.5        | 3.4    | 3.5     | 3.4    |
| A2.17 | High suppress                  | sion pool level                                                         |               | 3.2        | 3.4    | 3.2     | 3.4    |
| 42.18 | Low suppress                   | sion pool level                                                         |               | 3.1        | 3.2    | 3.1     | 3.2    |
| A2.19 | High suppress                  | sion pool temperature                                                   |               | 3.5        | 3.6    | 3.5     | 3.6    |
| A3    | Ability to mon                 | itor automatic operations of the REACTOR                                | (41.7 / 45.7) |            |        |         |        |
|       | CORE ISOLA                     | TION COOLING SYSTEM (RCIC)                                              |               |            |        |         |        |
|       | including:                     |                                                                         |               | <b>-</b> - | æ -    | a -     |        |
| A3.01 | Valve operati                  | on                                                                      |               | 3.5        | 3.5    | 3.5     | 3.5    |
| A3.02 | Turbine startu                 | ıp                                                                      |               | 3.6        | 3.5    | 3.6     | 3.5    |
| A3.03 | System press                   | ure                                                                     |               | 3.7        | 3.6    | 3.7     | 3.6    |
| A3.04 | System flow                    |                                                                         |               | 3.6        | 3.5    | 3.6     | 3.5    |
| A3.05 | Reactor water                  | r level                                                                 |               | 3.9        | 3.9    | 3.9     | 3.9    |

A3.06

Lights and alarms

3.5

3.5

3.4

3.4

|       | Facility: CPS   |                                                                   |            | Printed: 08. |     | )8/11/2006    |  |
|-------|-----------------|-------------------------------------------------------------------|------------|--------------|-----|---------------|--|
|       | System Number:  | 217000                                                            |            |              |     |               |  |
|       | System Name:    | Reactor Core Isolation Cooling System (RCIC)                      | <u>NRC</u> | NRC Imp      |     | <u>ty l</u> ' |  |
|       |                 | CFR                                                               | RO         | SRO          | RO  | e.            |  |
| A4    | Ability to manu | ually operate and/or monitor in the control (41.7 / 45.5 to 45.8) |            |              |     |               |  |
|       | room:           |                                                                   |            |              |     |               |  |
| A4.01 | RCIC turbine    | speed                                                             | 3.7        | 3.7          | 3.7 | 3.7           |  |
| A4.02 | Turbine trip th | nrottle valve reset                                               | 3.9        | 3.9          | 3.9 | 3.9           |  |
| A4.03 | System valves   |                                                                   | 3.4        | 3.3          | 3.4 | 3.3           |  |
| A4.04 | Manually initi  | ated controls                                                     | 3.6        | 3.6          | 3.6 | 3.6           |  |
| A4.05 | Reactor water   | level                                                             | 4.1        | 4.1          | 4.1 | 4.1           |  |
| A4.06 | Suppression p   | ool level                                                         | 3.6        | 3.7          | 3.6 | 3.7           |  |
| A4.07 | Reactor pressu  | ıre                                                               | 3.9        | 3.8          | 3.9 | 3.8           |  |
| A4.08 | System flow     |                                                                   | 3.7        | 3.6          | 3.7 | 3.6           |  |
| A4.09 | System pressu   | Ire                                                               | 3.7        | 3.6          | 3.7 | 3.6           |  |
| A4.10 | Lights and ala  | rms                                                               | 3.6        | 3.5          | 3.6 | 3.5           |  |
| A4.11 | Condensate st   | orage tank level                                                  | 3.5        | 3.5          | 3.5 | 3.5           |  |

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|          | Facility: CPS                                                                                                                 |                         |      | Printee    | d: 08/1        | 1/2006 |
|----------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------------|----------------|--------|
|          | System Number: 218000                                                                                                         |                         |      |            |                |        |
|          | System Name: Automatic Depressurization System                                                                                |                         | NRC  | lmp        | <u>Facilit</u> | y Imp  |
| <u> </u> |                                                                                                                               | CFR                     | RO   | SRO        | RO             | SRO    |
| K1       | Knowledge of the physical connections and/or cause-                                                                           | (41.2 to 41.9 / 45.7 to |      |            |                |        |
|          | effect relationships between AUTOMATIC                                                                                        | 45.8)                   |      |            |                |        |
|          | DEPRESSURIZATION SYSTEM and the following:                                                                                    |                         | 4.0  | <i>A</i> 1 | 4.0            | 4 1    |
| K1.01    | RHR/LPCI: Plant-Specific                                                                                                      |                         | 4.0  | 4.1        | 4.0            | 4.1    |
| K1.02    | Low pressure core spray: Plant-Specific                                                                                       |                         | 4.0  | 4.1        | 4.0            | 4.1    |
| K1.03    | Nuclear boiler instrument system                                                                                              |                         | 3.7  | 3.0        | 2.7            | 2.0    |
| K1.04    | Drywell/containment pressure: Plant-Specific                                                                                  |                         | 3.9  | 4.2        | 3.9<br>2.0     | 4.2    |
| K1.05    | Remote shutdown system: Plant-Specific                                                                                        |                         | 3.9  | 3.9        | 3.9            | 2.9    |
| K1.06    | Safety/relief valves                                                                                                          |                         | 3.9* | 3.9*       | 3.9            | 3.9    |
| К2       | Knowledge of electrical power supplies to the following:                                                                      | (41.7)                  |      |            |                |        |
| K2.01    | ADS logic                                                                                                                     |                         | 3.1* | 3.3*       | 3.1            | 3.3    |
| К3       | Knowledge of the effect that a loss or malfunction of the                                                                     | (41.7 / 45.4)           |      |            |                |        |
|          | AUTOMATIC DEPRESSURIZATION SYSTEM will have on following:                                                                     |                         |      |            |                |        |
| K3.01    | Restoration of reactor water level after a break that does not depressurize the reactor when required                         |                         | 4.4* | 4.4*       | 4.4            | 4.4    |
| K3.02    | Ability to rapidly depressurize the reactor                                                                                   |                         | 4.5* | 4.6*       | 4.5            | 4.6    |
| 4        | Knowledge of AUTOMATIC DEPRESSURIZATION<br>SYSTEM design feature(s) and/or interlocks which                                   | (41.7)                  |      |            |                |        |
|          | provide for the following:                                                                                                    |                         |      |            |                |        |
| K4.01    | Prevent inadvertent initiatior of ADS logic                                                                                   |                         | 3.7  | 3.9        | 3.7            | 3.9    |
| K4.02    | Allows manual initiation of ADS logic                                                                                         |                         | 3.8  | 4.0        | 3.8            | 4.0    |
| K4.03    | ADS logic control                                                                                                             |                         | 3.8  | 4.0        | 3.8            | 4.0    |
| K4.04    | Insures adequate air supply to ADS valves: Plant-Specific                                                                     |                         | 3.5  | 3.6        | 3.5            | 3.6    |
| К5       | Knowledge of the operational implications of the<br>following concepts as they apply to AUTOMATIC<br>DEPRESSURIZATION SYSTEM: | (41.5 / 45.3)           |      |            |                |        |
| K5.01    | ADS logic operation                                                                                                           |                         | 3.8  | 3.8        | 3.8            | 3.8    |
| K6       | Knowledge of the effect that a loss or malfunction of the                                                                     | (41.7 / 45.7)           |      |            |                |        |
|          | following will have on the AUTOMATIC<br>DEPRESSURIZATION SYSTEM:                                                              |                         |      |            |                |        |
| K6.01    | RHR/LPCI system pressure: Plant-Specific                                                                                      |                         | 3.9  | 4.1        | 3.9            | 4.1    |
| K6.02    | Low pressure core spray system pressure: Plant-Specific                                                                       |                         | 4.1  | 4.1        | 4.1            | 4.1    |
| K6.03    | Nuclear boiler instrument system (level indication)                                                                           |                         | 3.8  | 3.9        | 3.8            | 3.9    |
| K6.04    | Air supply to ADS valves: Plant-Specific                                                                                      |                         | 3.6  | 3.7        | 3.6            | 3.7    |
| K6.05    | A.C. power: Plant-Specific                                                                                                    |                         | 3.0* | 3.1*       | 3.0            | 3.1    |
| K6.06    | D.C. power: Plant-Specific                                                                                                    |                         | 3.4* | 3.6        | 3.4            | 3.6    |
| K6.07    | Primary containment instrumentation                                                                                           |                         | 3.4  | 3.5        | 3.4            | 3.5    |

|       | Facility: CPS                                                                                                                     |                                     |      | Print |               | ed: 08/11/200 |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------|-------|---------------|---------------|--|
|       | System Number: 218000                                                                                                             |                                     |      |       |               |               |  |
|       | System Name: Automatic Depressurization                                                                                           | System                              | NRC  | lmp   | <u>Facili</u> | <u>ty I</u> r |  |
|       |                                                                                                                                   | CFR                                 | RO   | SRO   | RO            | £             |  |
| A1    | Ability to predict and/or monitor changes in p<br>associated with operating the AUTOMATIC<br>DEPRESSURIZATION SYSTEM controls ind | arameters (41.5 / 45.5)<br>:luding: |      |       |               |               |  |
| A1.01 | ADS valve tail pipe temperatures                                                                                                  | 5                                   | 3.4  | 3.6   | 3.4           | 3.6           |  |
| A1.02 | ADS valve acoustical monitor noise: Plant-Spe                                                                                     | cific                               | 3.7  | 4.0   | 3.7           | 4.0           |  |
| A1.03 | ADS valve air supply pressure: Plant-Specific                                                                                     |                                     | 3.2  | 3.4*  | 3.2           | 3.4           |  |
| A1.04 | Reactor pressure                                                                                                                  |                                     | 4.1* | 4.2*  | 4.1           | 4.2           |  |
| A1.05 | Reactor water level                                                                                                               |                                     | 4.1* | 4.1   | 4.1           | 4.1           |  |
| A1.06 | Suppression pool temperature                                                                                                      |                                     | 4.1  | 4.3*  | 4.1           | 4.3           |  |
| A2    | Ability to (a) predict the impacts of the followi<br>AUTOMATIC DEPRESSURIZATION SYST                                              | ng on the (41.5 / 45.6)<br>EM; and  |      |       |               |               |  |
|       | (b) based on those predictions, use procedures                                                                                    | to correct,                         |      |       |               |               |  |
|       | control, or mitigate the consequences of those                                                                                    | abnormal                            |      |       |               |               |  |
|       | conditions or operations:                                                                                                         |                                     |      |       |               |               |  |
| A2.01 | Small steam line break L0CA                                                                                                       |                                     | 4.1  | 4.3*  | 4.1           | 4.3           |  |
| A2.02 | Large break LOCA                                                                                                                  |                                     | 3.5  | 3.6*  | 3.5           | 3.6           |  |
| A2.03 | Loss of air supply to ADS valves: Plant-Specifi                                                                                   | c                                   | 3.4  | 3.6   | 3.4           | 3.6           |  |
| A2.04 | ADS failure to initiate                                                                                                           |                                     | 4.1  | 4.2*  | 4.1           | 4.2           |  |
| A2.05 | Loss of A.C. or D.C. power to ADS valves                                                                                          |                                     | 3.4* | 3.6*  | 3.4           | 3.6           |  |
| A2.06 | ADS initiation signals present                                                                                                    |                                     | 4.2  | 4.3*  | 4.2           | 4.3           |  |
| A3    | Ability to monitor automatic operations of the<br>AUTOMATIC DEPRESSURIZATION SYST<br>including:                                   | (41.7 / 45.7)<br>EM                 |      |       |               |               |  |
| A3 01 | ADS valve operation                                                                                                               |                                     | 4.2* | 4.3   | 4.2           | 4.3           |  |
| A3.02 | ADS valve tail pipe temperatures                                                                                                  |                                     | 3.6  | 3.7   | 3.6           | 3.7           |  |
| A3.03 | ADS valve acoustical monitor noise: Plant-Spe                                                                                     | cific                               | 3.7  | 3.8   | 3.7           | 3.8           |  |
| A3.04 | Primary containment pressure                                                                                                      |                                     | 3.7  | 3.8   | 3.7           | 3.8           |  |
| A3.05 | Suppression pool level                                                                                                            |                                     | 3.6  | 3.7   | 3.6           | 3.7           |  |
| A3.06 | Suppression pool temperature                                                                                                      |                                     | 3.9  | 3.9   | 3.9           | 3.9           |  |
| A3.07 | Lights and alarms                                                                                                                 |                                     | 3.7  | 3.6   | 3.7           | 3.6           |  |
| A3.08 | Reactor pressure                                                                                                                  |                                     | 4.2* | 4.3*  | 4.2           | 4.3           |  |
| A3.09 | Reactor vessel water level                                                                                                        |                                     | 4.1* | 4.2*  | 4.1           | 4.2           |  |

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|       | Facility: CPS                                     |                                 |            | Printe | :d: 08/1      | 1/2006 |
|-------|---------------------------------------------------|---------------------------------|------------|--------|---------------|--------|
|       | System Number: 218000                             |                                 |            |        |               |        |
|       | System Name: Automatic Depressurization Sys       | stem                            | <u>NRC</u> | Imp    | <u>Facili</u> | ty Imp |
|       |                                                   | CFR                             | RO         | SRO    | RO            | SRO    |
| A4    | Ability to manually operate and/or monitor in the | e control (41.7 / 45.5 to 45.8) |            |        |               |        |
|       | room:                                             |                                 |            |        |               |        |
| A4.01 | ADS valves                                        |                                 | 4.4*       | 4.4*   | 4.4           | 4.4    |
| A4.02 | ADS logic initiation                              |                                 | 4.2*       | 4.2*   | 4.2           | 4.2    |
| A4.03 | ADS logic reset                                   |                                 | 4.2*       | 4.2*   | 4.2           | 4.2    |
| A4.04 | ADS inhibit: Plant-Specific                       |                                 | 4.1        | 4.1*   | 4.1           | 4.1    |
| A4.05 | ADS timer reset                                   |                                 | 4.2*       | 4.2*   | 4.2           | 4.2    |
| A4.06 | ADS valve tail pipe temperature                   |                                 | 3.5        | 3.6    | 3.5           | 3.6    |
| A4.07 | ADS valve acoustical monitor noise: Plant-Specifi | c                               | 3.5        | 3.8    | 3.5           | 3.8    |
| A4.08 | Suppression pool level                            |                                 | 3.7        | 3.8    | 3.7           | 3.8    |
| A4.09 | Suppression pool temperature                      |                                 | 3.9        | 3.9    | 3.9           | 3.9    |
| A4.10 | Lights and alarms                                 |                                 | 3.8        | 3.8    | 3.8           | 3.8    |
| A4.11 | Reactor pressure                                  |                                 | 4.3*       | 4.3*   | 4.3           | 4.3    |
| A4.12 | Reactor vessel water level                        |                                 | 4.2*       | 4.3*   | 4.2           | 4.3    |

|               | Facility: CPS                                    |                                                                                                   | Printed: 08/11/2                 |      |      |        |        |
|---------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------|------|------|--------|--------|
|               | System Number:                                   | 219000                                                                                            |                                  |      |      |        |        |
|               | System Name:                                     | RHR/LPCI: Torus/Suppression Pool Co                                                               | oling                            | NRC  | լառ  | Facili | tv Imp |
|               | <u></u>                                          | Mode                                                                                              | CFR                              | RO   | SRO  | RO     | SRO    |
| K1            | Knowledge of t<br>effect relations<br>TORUS/SUPP | the physical connections and/or cause-<br>hips between RHR/LPCI:<br>RESSION POOL COOLING MODE and | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |        |        |
|               | the following:                                   |                                                                                                   |                                  |      |      |        |        |
| K1.01         | Suppression p                                    | 000]                                                                                              |                                  | 3.8  | 3.9  | 3.8    | 3.9    |
| K1.02         | Condensate st                                    | orage tank                                                                                        |                                  | 2.4* | 2.4  | 2.4    | 2.4    |
| K1.03         | LPCI/RHR pi                                      | ping                                                                                              |                                  | 3.7  | 3.8  | 3.7    | 3.8    |
| K1.04         | LPCI/RHR pu                                      | imps                                                                                              |                                  | 3.9  | 3.9  | 3.9    | 3.9    |
| K1.05         | A.C. electrica                                   | l power                                                                                           |                                  | 3.5  | 3.6  | 3.5    | 3.6    |
| K1.06         | Keen fill syste                                  | èm                                                                                                |                                  | 3.2  | 3.3  | 3.2    | 3.3    |
| K1 07         | Condensate tra                                   | nsfer                                                                                             |                                  | 2.5  | 2.6  | 2.5    | 2.6    |
| K1 08         | D C electrica                                    | l power                                                                                           |                                  | 2.6  | 2.8  | 2.6    | 2.8    |
| K1.00         | Nuclear boile                                    | r instrumentation                                                                                 |                                  | 33   | 3.4  | 3.3    | 3.4    |
| K1 10         | Reactor buildi                                   | ing drain system: Plant-Specific                                                                  |                                  | 1.9* | 1.9* | 19     | 19     |
| K1.10         | Component co                                     | poling water systems                                                                              |                                  | 3.0  | 3.0  | 3.0    | 3.0    |
|               |                                                  |                                                                                                   |                                  |      |      |        |        |
| К2            | Knowledge of a                                   | electrical power supplies to the following:                                                       | (41.7)                           |      |      |        |        |
| K2.01         | †Valves                                          | • • • •                                                                                           |                                  | 2.5* | 2.9* | 2.5    | 2.9    |
| K2.02         | Pumps                                            |                                                                                                   |                                  | 3.1* | 3.3* | 3.1    | 3.3    |
| K2.03         | Valve control                                    | logic: Plant-Specific                                                                             |                                  | 2.2* | 2.6* | 2.2    | 2.6    |
| - K3          | Knowledge of 1<br>RHR/LPCI: T<br>MODE will ha    | the effect that a loss or malfunction of the<br>ORUS/SUPPRESSION POOL COOLING<br>ve on following: | (41.7 / 45.4)                    |      |      |        |        |
| K3.01         | Suppression p                                    | bool temperature control                                                                          |                                  | 3.9  | 4.1  | 3.9    | 4.1    |
| K4            | Knowledge of<br>POOL COOL                        | RHR/LPCI: TORUS/SUPPRESSION<br>ING MODE design feature(s) and/or                                  | (41.7)                           |      |      |        |        |
| <b>K</b> 4 01 | Surveillance f                                   | for all operable components                                                                       |                                  | 31   | 34   | 3.1    | 3.4    |
| K4.02         | Redundancy                                       | of an operable components                                                                         |                                  | 3.5  | 35   | 35     | 35     |
| K4.02         | Unintentional                                    | reduction in vessel injection flow during                                                         |                                  | 3.8  | 3.8  | 3.8    | 3.8    |
| N4.03         | accident cond                                    | itions: Plant-Specific                                                                            |                                  | 5.0  | 5.6  | 5.0    | 5.0    |
| K4 04         | Prevention of                                    | nining overpressurization: Plant-Specific                                                         |                                  | 3.3  | 3.4  | 3.3    | 3.4    |
| K4 05         | Pump minimu                                      | in flow protection                                                                                |                                  | 3.0  | 3.2  | 3.0    | 3.2    |
| K4 06         | Pump motor o                                     | cooling Plant-Specific                                                                            |                                  | 2.7  | 2.7  | 2.7    | 2.7    |
| K4 07         | Prevention of                                    | water hammer: Plant-Specific                                                                      |                                  | 3.0  | 3.1  | 3.0    | 3 1    |
| K4 08         | A dequate mun                                    | nn net nositive suction head                                                                      |                                  | 2.9  | 3.0  | 2.9    | 3.0    |
| K4 00         | Heat exchange                                    | er cooling                                                                                        |                                  | 33   | 34   | 3.3    | 34     |
| KA 10         | Prevention of                                    | Leakage to the environment through system                                                         |                                  | 33   | 3.6  | 3.3    | 3.6    |
| 117.10        | heat exchange                                    | er: Plant-Specific                                                                                |                                  | 0.0  | 2.0  | 2.0    | 2.0    |

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|       | Facility: CPS                                                                                            |                                                                     |               |     |      | Printe | :d: 08/1 | 1/2006            |
|-------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------|-----|------|--------|----------|-------------------|
|       | System Number: 219000                                                                                    |                                                                     |               |     |      |        |          |                   |
|       | System Name: RHR/LPG                                                                                     | CI: Torus/Suppression Pool Co                                       | oling         |     | NRC  | lmp    | Facili   | ty I <sup>.</sup> |
|       | Mode                                                                                                     |                                                                     | -             | CFR | RO   | SRO    | RO       | <u>s</u> .        |
| К5    | Knowledge of the operation<br>following concepts as they<br>TORUS/SUPPRESSION P                          | aal implications of the<br>apply to RHR/LPCI:<br>OOL COOLING MODE:  | (41.5 / 45.3) |     |      |        |          |                   |
| K5.01 | System venting                                                                                           |                                                                     |               |     | 2.6  | 2.7    | 2.6      | 2.7               |
| K5.02 | Pump cavitation                                                                                          |                                                                     |               |     | 2.7  | 2.8    | 2.7      | 2.8               |
| K5.03 | Pressure measurement                                                                                     |                                                                     |               |     | 2.7* | 2.8*   | 2.7      | 2.8               |
| K5.04 | Heat exchanger operation                                                                                 |                                                                     |               |     | 2.9  | 2.9    | 2.9      | 2.9               |
| K6    | Knowledge of the effect the following will have on the I<br>TORUS/SUPPRESSION F                          | it a loss or malfunction of the<br>RHR/LPCI:<br>2001. COOLING MODE: | (41.7 / 45.7) |     |      |        |          |                   |
| K6 01 | A C electrical power                                                                                     |                                                                     |               |     | 3.2  | 3.3    | 3.2      | 3.3               |
| K6.02 | D.C. electrical power                                                                                    |                                                                     |               |     | 2.5* | 2.8*   | 2.5      | 2.8               |
| K6.03 | Emergency generator                                                                                      |                                                                     |               |     | 3.5  | 3.5    | 3.5      | 3.5               |
| K6.04 | Keen fill system                                                                                         |                                                                     |               |     | 2.9* | 3.0    | 2.9      | 3.0               |
| K6.05 | Condensate storage tank: I                                                                               | Plant-Specific                                                      |               |     | 2.2* | 2.2*   | 2.2      | 2.2               |
| K6.06 | Suppression pool                                                                                         |                                                                     |               |     | 3.7  | 3.7    | 3.7      | 3.7               |
| K6.07 | Condensate transfer                                                                                      |                                                                     |               |     | 2.2* | 2.2*   | 2.2      | 2.2               |
| K6 08 | ECCS room cooling                                                                                        |                                                                     |               |     | 2.7* | 2.7    | 2.7      | 2.7               |
| K6 09 | Nuclear boiler instrumenta                                                                               | tion                                                                |               |     | 3.0  | 3.1    | 3.0      | 3.1               |
| K6.10 | Component cooling water                                                                                  | systems                                                             |               |     | 2.9  | 2.9    | 2.9      | 2.9               |
| A1    | Ability to predict and/or m<br>associated with operating t<br>TORUS/SUPPRESSION F<br>controls including: | onitor changes in parameters<br>the RHR/LPCI:<br>'OOL COOLING MODE  | (41.5 / 45.5) |     |      |        |          |                   |
| A1.01 | Suppression pool temperat                                                                                | ure                                                                 |               |     | 4.0  | 4.0    | 4.0      | 4.0               |
| A1.02 | System flow                                                                                              |                                                                     |               |     | 3.5  | 3.5    | 3.5      | 3.5               |
| A1 03 | System pressure                                                                                          |                                                                     |               |     | 2.9  | 2.9    | 2.9      | 2.9               |
| A1.04 | Suppression pool level                                                                                   |                                                                     |               |     | 3.2  | 3.2    | 3.2      | 3.2               |
| A1.05 | Condensate storage tank le                                                                               | evel: Plant-Specific                                                |               |     | 2.1* | 2.1*   | 2.1      | 2.1               |
| A1.06 | Motor amps: Plant-Specifi                                                                                | с                                                                   |               |     | 2.3* | 2.4*   | 2.3      | 2.4               |
| A1 07 | Emergency generator load                                                                                 | -<br>ing                                                            |               |     | 3.2  | 3.3    | 3.2      | 3.3               |
| A1 08 | System lineun                                                                                            |                                                                     |               |     | 3.7  | 3.6    | 3.7      | 3.6               |
| A1 09 | Suppression chamber air te                                                                               | mnerature: Plant Specific                                           |               |     | 3.2  | 3.3    | 3.2      | 3.3               |
| A1 10 | Containment air temperatu                                                                                | ire: Mark-III                                                       |               |     | 3.1  | 3.1    | 3.1      | 3.1               |
|       | Containantent an tempetati                                                                               |                                                                     |               |     |      |        |          |                   |

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|        | Facility: CPS                                                                         |                                                                                                                                                                                                    | Printed: 08/11/200    |             |                        |            |                        |
|--------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|------------------------|------------|------------------------|
|        | System Number:                                                                        | 219000                                                                                                                                                                                             |                       |             |                        |            |                        |
|        | System Name:                                                                          | RHR/LPCI: Torus/Suppression Pool Co                                                                                                                                                                | oling                 | NRC         | Imp                    | Facili     | ty Imp                 |
|        |                                                                                       | Mode                                                                                                                                                                                               | CFR                   | RO          | SRO                    | RO         | SRO                    |
| A2     | Ability to (a) p.<br>RHR/LPCI: T<br>MODE; and (b<br>procedures to c<br>consequences o | redict the impacts of the following on the<br>ORUS/SUPPRESSION POOL COOLING<br>based on those predictions, use<br>correct, control, or mitigate the<br>of those abnormal conditions or operations: | (41.5 / 45.6)         |             |                        |            |                        |
| A2.01  | Inadequate ne                                                                         | t positive suction head                                                                                                                                                                            |                       | 3.0         | 3.1                    | 3.0        | 3.1                    |
| A2.02  | Pumps trips                                                                           |                                                                                                                                                                                                    |                       | 3.3         | 3.3                    | 3.3        | 3.3                    |
| A2.03  | Valve closure                                                                         | S                                                                                                                                                                                                  |                       | 3.1         | 3.2                    | 3.1        | 3.2                    |
| A2.04  | Valve opening                                                                         | 28                                                                                                                                                                                                 |                       | 3.1         | 3.2                    | 3.1        | 3.2                    |
| A2.05  | A.C. electrica                                                                        | failures                                                                                                                                                                                           |                       | 3.3         | 3.5                    | 3.3        | 3.5                    |
| A2.06  | D.C. electrica                                                                        | l failures                                                                                                                                                                                         |                       | 2.7*        | 2.9*                   | 2.7        | 2.9                    |
| A2.07  | Emergency ge                                                                          | merator failure                                                                                                                                                                                    |                       | 3.5         | 3.7                    | 3.5        | 3.7                    |
| A2.08  | Pump seal fail                                                                        | lure                                                                                                                                                                                               |                       | 2.8         | 3.1                    | 2.8        | 3.1                    |
| A2.09  | Inadequate ro                                                                         | om cooling                                                                                                                                                                                         |                       | 2.7         | 2.9                    | 2.7        | 2.9                    |
| A2.10  | Nuclear boile                                                                         | r instrument failures                                                                                                                                                                              |                       | 3.1         | 3.2                    | 3.1        | 3.2                    |
| A2.11  | Motor operate                                                                         | d valve failures                                                                                                                                                                                   |                       | 3.1         | 3.3                    | 3.1        | 3.3                    |
| A2.12  | Valve logic fa                                                                        | ilure: Plant-Specific                                                                                                                                                                              |                       | 3.0         | 3.1*                   | 3.0        | 3.1                    |
| A2.13  | High suppress                                                                         | sion pool temperature                                                                                                                                                                              |                       | 3.5         | 3.7                    | 3.5        | 3.7                    |
| A2.14  | Loss of coolar                                                                        | nt accident                                                                                                                                                                                        |                       | 4.1         | 4.3*                   | 4.1        | 4.3                    |
| A2.15  | Loss of, or ina                                                                       | adequate, heat exchanger cooling flow                                                                                                                                                              |                       | 3.3         | 3.4                    | 3.3        | 3.4                    |
| A2.16  | High suppress                                                                         | ion pool level                                                                                                                                                                                     |                       | 2.9         | 3.2                    | 2.9        | 3.2                    |
| ~A3    | Ability to mon<br>RHR/LPCI: T<br>MODE includi                                         | itor automatic operations of the<br>ORUS/SUPPRESSION POOL COOLING<br>ng:                                                                                                                           | (41.7 / 45.7)         |             |                        |            |                        |
| A3.01  | Valve operation                                                                       | on                                                                                                                                                                                                 |                       | 3.3         | 3.3                    | 3.3        | 3.3                    |
| A4     | Ability to man                                                                        | ually operate and/or monitor in the control                                                                                                                                                        | (41.7 / 45.5 to 45.8) |             |                        |            |                        |
| A 4 01 | room:                                                                                 |                                                                                                                                                                                                    |                       | 3.8*        | 3 7*                   | 3.8        | 37                     |
| A4.01  | Pumps<br>Value lineur                                                                 |                                                                                                                                                                                                    |                       | 3.0         | 3.7                    | 37         | 35                     |
| A4.02  | Varve fill evet                                                                       | - m                                                                                                                                                                                                |                       | 29          | 2.9                    | 2.9        | 2.9                    |
| A4.03  | Minimum flor                                                                          |                                                                                                                                                                                                    |                       | 3.0         | 2.9                    | 3.0        | 2.9                    |
| A4.04  | Host exchang                                                                          | er cooling flow                                                                                                                                                                                    |                       | 3.4         | 3.4                    | 34         | 3.4                    |
| A4.03  | Volve logio re                                                                        | be cooling now                                                                                                                                                                                     |                       | 3.0         | 3.7                    | 3.9        | 3.7                    |
| A4.00  | LPCI/RHR in                                                                           | injection mode                                                                                                                                                                                     |                       | 2.5         | 2.4                    | 2.5        | 2.4                    |
| A4.07  | System flow                                                                           |                                                                                                                                                                                                    |                       | 3.3         | 5.4<br>2.0             | 3.5        | 2.4                    |
| A4.08  | Pump/system                                                                           | discharge pressure: Plant-Specific                                                                                                                                                                 |                       | 2.9<br>2 4  | 2.9                    | 2.7        | 2.9<br>2.2             |
| A4.09  | Indicating lig                                                                        | nts and alarms                                                                                                                                                                                     |                       | ວ.4<br>າງ*  | ວ.ວ<br>າຳ*             | 3.4<br>วา  | 3.5<br>7 7             |
| A4.10  | Condensate st                                                                         | lorage tank level: Plant-Specific                                                                                                                                                                  |                       | 2.2°<br>Э.4 | 2.2                    | 2.2<br>7 A | 2.4<br>7 A             |
| A4.11  | System ventur                                                                         |                                                                                                                                                                                                    |                       | 2.4<br>A 1  | ∠. <del>4</del><br>∕ 1 | ∠.ч<br>/ 1 | 2. <del>7</del><br>/ 1 |
| A4.12  | Suppression r                                                                         | boot temperature                                                                                                                                                                                   |                       | 2.0         | -1.1<br>7 Q            | 7.1        | 7.1                    |
| A4.13  | Suppression p                                                                         | bool level                                                                                                                                                                                         |                       | ל.ע<br>דב   | 3.0<br>2.5             | ד.<br>בינ  | 2.0                    |
| A4.14  | The overrides<br>Plant-Specific                                                       | tor suppression poor cooling valve logic:                                                                                                                                                          |                       | 3.7         | 3.2                    | 5.7        | 5.5                    |

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| Facility: Cl        | PS                                               |     | Printed                  | : 08/11/2006               |
|---------------------|--------------------------------------------------|-----|--------------------------|----------------------------|
| System Number:      | 219000                                           |     |                          |                            |
| <u>System Name:</u> | RHR/LPCI: Torus/Suppression Pool Cooling<br>Mode | CFR | <u>NRC Imp</u><br>RO SRO | <u>Facility I</u><br>RO S. |

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|       | Facility: CPS                                                            |      | Printed: 08/11/2006 |        |        |  |
|-------|--------------------------------------------------------------------------|------|---------------------|--------|--------|--|
|       | System Number: 223001                                                    |      |                     |        |        |  |
|       | System Name: Primary Containment System and Auxiliaries                  | NRC  | ami                 | Facili | ty Imp |  |
|       | <u>CFR</u>                                                               | RO   | SRO                 | RO     | SRO    |  |
| K1    | Knowledge of the physical connections and/or cause- (41.2 to 41.9 / 45.7 | to   |                     |        |        |  |
|       | effect relationships between PRIMARY 45.8)                               |      |                     |        |        |  |
|       | CONTAINMENT SYSTEM AND AUXILIARIES and                                   |      |                     |        |        |  |
|       | the following:                                                           |      |                     |        |        |  |
| K1.01 | Containment isolation/integrity: Plant-Specific                          | 3.7  | 3.9                 | 3.7    | 3.9    |  |
| K1.02 | Drywell isolation/integrity: Plant-Specific                              | 3.6  | 3.8                 | 3.6    | 3.8    |  |
| K1.03 | Containment/drywell atmosphere control                                   | 3.2  | 3.3                 | 3.2    | 3.3    |  |
| K1.04 | Drywell floor and equipment floor drain system                           | 3.1  | 3.2                 | 3.1    | 3.2    |  |
| K1.05 | Suppression pool makeup system: Mark-III                                 | 3.3  | 3.5                 | 3.3    | 3.5    |  |
| K1.06 | RHR/LPCI                                                                 | 3.4  | 3.6                 | 3.4    | 3.6    |  |
| K1.07 | Suppression pool cleanup system: Plant-Specific                          | 2.4  | 2.5                 | 2.4    | 2.5    |  |
| K1.08 | Relief/safety valves                                                     | 3.6  | 3.8                 | 3.6    | 3.8    |  |
| K1.09 | SBGT/FRVS: Plant-Specific                                                | 3.4  | 3.6                 | 3.4    | 3.6    |  |
| K1.10 | Plant air systems                                                        | 3.0  | 3.1                 | 3.0    | 3.1    |  |
| K1.11 | Post accident sampling system                                            | 2.7  | 2.9                 | 2.7    | 2.9    |  |
| K1.12 | LPCS: Plant-Specific                                                     | 3.5  | 3.6                 | 3.5    | 3.6    |  |
| K1.13 | HPCS: Plant-Specific                                                     | 3.4  | 3.5                 | 3.4    | 3.5    |  |
| K1.14 | RCIC: Plant-Specific                                                     | 3.3  | 3.6                 | 3.3    | 3.6    |  |
| K1.15 | HPCI: Plant-Specific                                                     | 3.5  | 3.9                 | 3.5    | 3.9    |  |
| K1.16 | Containment and drywell atmosphere monitoring:<br>Plant-Specific         | 3.3  | 3.4                 | 3.3    | 3.4    |  |
| K1.17 | Reactor building HVAC: Plant-Specific                                    | 3.1  | 3.1                 | 3.1    | 3.1    |  |
| .1.18 | Drywell pneumatic compressors: Plant-Specific                            | 2.6  | 2.8                 | 2.6    | 2.8    |  |
| К2    | Knowledge of electrical power supplies to the following: (41.7)          |      |                     |        |        |  |
| K2.01 | Atmosphere containment/ atmospheric dilution compressors: Plant-Specific | 2.0* | 2.1                 | 2.0    | 2.1    |  |
| K2.02 | Drywell compressors                                                      | 1.8* | 1.9*                | 1.8    | 1.9    |  |
| K2.03 | Pumpback compressors: Plant-Specific                                     | 1.8* | 1.8*                | 1.8    | 1.8    |  |
| K2.04 | Combustible gas mixing compressors: Mark-III                             | 2.0* | 2.4                 | 2.0    | 2.4    |  |
| K2.05 | Hydrogen recombiners: Plant-Specific                                     | 2.2* | 2.4*                | 2.2    | 2.4    |  |
| K2.06 | Hydrogen igniters: Plant-Specific                                        | 2.0* | 2.4                 | 2.0    | 2.4    |  |
| K2.07 | Containment atmosphere monitoring system                                 | 2.3* | 2.6*                | 2.3    | 2.6    |  |
| K2.08 | Containment cooling air handling units: Plant-Specific                   | 2.7  | 3.0*                | 2.7    | 3.0    |  |
| K2.09 | Drywell cooling fans: Plant-Specific                                     | 2.7  | 2.9*                | 2.7    | 2.9    |  |
| K2.10 | Drywell chillers: Plant-Specific                                         | 2.7  | 2.9*                | 2.7    | 2.9    |  |

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|       | Facility: CPS                                                                                                                             |      | Printo       | ed: 08/1      | 1/2006            |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|---------------|-------------------|
|       | System Number: 223001                                                                                                                     |      |              |               |                   |
|       | System Name: Primary Containment System and Auxiliaries                                                                                   | NRC  | <u>C Imp</u> | <u>Facili</u> | ty I <sup>.</sup> |
|       | CFR                                                                                                                                       | R RO | SRO          | RO            | <u>۶</u> .        |
| К3    | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4)<br>PRIMARY CONTAINMENT SYSTEM AND                                 |      |              |               |                   |
|       | AUXILIARIES will have on following:                                                                                                       | 27   | 7.0          | 2.6           | 2.0               |
| K3.01 | Secondary containment                                                                                                                     | 3.6  | 3.8          | 3.0           | 3.8               |
| K3.02 | Containment/drywell temperature: Plant-Specific                                                                                           | 3.3  | 3.4          | 3.5           | 3.4               |
| K3.03 | Containment/drywell pressure: Plant-Specific                                                                                              | 3.4  | 3.5          | 3.4           | 3.5               |
| K3.04 | Containment/drywell hydrogen gas concentration                                                                                            | 3.3  | 3.5          | 3.3           | 3.5               |
| K3.05 | Containment/drywell oxygen gas concentration                                                                                              | 3.1  | 3.2          | 3.1           | 3.2               |
| K3.06 | Differential pressure between secondary and primary containment                                                                           | 3.3  | 3.6          | 3.3           | 3.6               |
| K3.07 | Differential pressure between suppression pool and<br>drywell/containment                                                                 | 3.1  | 3.2          | 3.1           | 3.2               |
| K3.08 | Pneumatically operated valves internal to<br>containment/drywell: Plant-Specific                                                          | 2.7  | 2.9          | 2.7           | 2.9               |
| K3.09 | Nuclear boiler instrumentation                                                                                                            | 2.8  | 3.1          | 2.8           | 3.1               |
| K3.10 | Containment/drywell moisture content                                                                                                      | 2.4  | 2.6          | 2.4           | 2.6               |
| K4    | Knowledge of PRIMARY CONTAINMENT SYSTEM (41.7)<br>AND AUXILIARIES design feature(s) and/or interlocks<br>which provide for the following: |      |              |               |                   |
| K4.01 | Allows for absorption of the energy released during a LOCA                                                                                | 3.7  | 3.8          | 3.7           | 3.8               |
| K4.02 | Contains fission products after a LOCA                                                                                                    | 3.6  | 3.7          | 3.6           | 3.                |
| K4.03 | Containment/drywell isolation                                                                                                             | 3.7  | 3.8          | 3.7           | 3.8               |
| K4.04 | Prevents hydrogen from reaching an explosive mixture                                                                                      | 3.5  | 3.8          | 3.5           | 3.8               |
| K4.05 | Maintains proper suppression pool to drywell differential pressure                                                                        | 2.9  | 3.1          | 2.9           | 3.1               |
| K4.06 | Maintains proper containment/secondary containment to<br>drywell differential pressure                                                    | 3.1  | 3.3          | 3.1           | 3.3               |
| K4.07 | Prevents localized heating of suppression pool (SRV steam quenchers)                                                                      | 3.1  | 3.3          | 3.1           | 3.3               |

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|       | System Number:                                          | 223001                                                                                              |               |         |     |              |     |     |
|-------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------|---------|-----|--------------|-----|-----|
|       | System Name: Primary Containment System and Auxiliaries |                                                                                                     |               | NRC 1mp |     | Facility Imp |     |     |
|       | <u></u>                                                 |                                                                                                     |               | CFR     | RO  | SRO          | RO  | SRO |
| K5    | Knowledge of<br>following conc<br>CONTAINME             | the operational implications of the<br>epts as they apply to PRIMARY<br>ENT SYSTEM AND AUXILIARIES: | (41.5 / 45.3) |         |     |              |     |     |
| K5.01 | Vacuum breaker/relief operation                         |                                                                                                     |               |         | 3.1 | 3.3          | 3.1 | 3.3 |
| K5.02 | Guard pipe of                                           | peration: Mark-III                                                                                  |               |         | 2.3 | 2.4          | 2.3 | 2.4 |
| K5.03 | Down comer                                              | operation                                                                                           |               |         | 2.8 | 2.9          | 2.8 | 2.9 |
| K5.04 | Horizontal ve                                           | ent operation: Mark-III                                                                             |               |         | 2.4 | 2.6          | 2.4 | 2.6 |
| K5.05 | Hydrogen rec                                            | combiner operation: Plant-Specific                                                                  |               |         | 2.8 | 3.0          | 2.8 | 3.0 |
| K5.06 | Hydrogen ign                                            | iter operation: Plant-Specific                                                                      |               |         | 2.8 | 2.9          | 2.8 | 2.9 |
| K5.07 | Suppression t                                           | oool clean-up: Plant-Specific                                                                       |               |         | 2.3 | 2.4          | 2.3 | 2.4 |
| K5.08 | Pressure mea                                            | surement                                                                                            |               |         | 2.7 | 2.8          | 2.7 | 2.8 |
| K5.09 | Hydrogen pro                                            | duction mechanisms                                                                                  |               |         | 2.6 | 2.9*         | 2.6 | 2.9 |
| K5.10 | Hydrogen con<br>and oxygen c                            | mbustibility versus hydrogen concentration oncentration                                             |               |         | 2.9 | 3.1          | 2.9 | 3.1 |
| K5.11 | Temperature                                             | measurement                                                                                         |               |         | 2.7 | 2.7          | 2.7 | 2.7 |
| K5.12 | Hydrogen co                                             | ncentration measurement                                                                             |               |         | 2.7 | 2.8          | 2.7 | 2.8 |
| K5.13 | Oxygen conc                                             | entration measurement: Plant-Specific                                                               |               |         | 2.7 | 2.8          | 2.7 | 2.8 |
| K5.14 | Differential p                                          | ressure measurement                                                                                 |               |         | 2.6 | 2.8*         | 2.6 | 2.8 |
| K5.15 | Moisture cont                                           | ent measurement: Plant-Specific                                                                     |               |         | 2.4 | 2.6          | 2.4 | 2.6 |
| K6    | Knowledge of<br>following will<br>SYSTEM ANI            | the effect that a loss or malfunction of the<br>have on the PRIMARY CONTAINMENT<br>D AUXILIARIES:   | (41.7 / 45.7) |         |     |              |     |     |
| K6.01 | Drywell cool                                            | ing                                                                                                 |               |         | 3.6 | 3.8          | 3.6 | 3.8 |
| K6.02 | Containment                                             | cooling: Mark-III                                                                                   |               |         | 3.5 | 3.6          | 3.5 | 3.6 |
| K6.03 | Suppression                                             | pool makeup: Plant-Specific                                                                         |               |         | 2.8 | 3.1          | 2.8 | 3.1 |
| K6.04 | Combustible                                             | gas mixing: Plant-Specific                                                                          |               |         | 2.8 | 2.8          | 2.8 | 2.8 |
| K6.05 | Hydrogen rec                                            | combiner: Plant-Specific                                                                            |               |         | 3.1 | 3.3          | 3.1 | 3.3 |
| K6.06 | Backup hydro                                            | ogen purge: Plant-Specific                                                                          |               |         | 2.8 | 3.0          | 2.8 | 3.0 |
| K6.07 | Hydrogen igr                                            | niter system: Plant-Specific                                                                        |               |         | 3.0 | 3.1          | 3.0 | 3.1 |
| K6.08 | Containment                                             | atmospheric control                                                                                 |               |         | 3.3 | 3.4          | 3.3 | 3.4 |
| K6.09 | Drywell vacu                                            | um relief system                                                                                    |               |         | 3.4 | 3.6          | 3.4 | 3.6 |
| K6.10 | Containment                                             | vacuum relief system: Mark-III                                                                      |               |         | 3.0 | 3.2          | 3.0 | 3.2 |
| K6.11 | A.C. electrica                                          | al distribution                                                                                     |               |         | 3.0 | 3.2          | 3.0 | 3.2 |
| K6.12 | D.C. electrica                                          | al distribution                                                                                     |               |         | 2.7 | 3.0          | 2.7 | 3.0 |
| K6.13 | Applicable p                                            | lant air system/ nitrogen make-up system.                                                           |               |         | 3.2 | 3.4          | 3.2 | 3.4 |
| K6.14 | RHR/LPCI                                                |                                                                                                     |               |         | 3.6 | 3.8          | 3.6 | 3.8 |

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|       | System Number:                                                                                         | 223001                                                                                                                                                                                                 |                                         |      |         |     |             |  |
|-------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------|---------|-----|-------------|--|
|       | System Name:                                                                                           | Primary Containment System and Auxilia                                                                                                                                                                 | mary Containment System and Auxiliaries |      | NRC Imp |     | Facility Ir |  |
|       |                                                                                                        |                                                                                                                                                                                                        | CFR                                     | RO   | SRO     | RO  | 5.          |  |
| A1    | Ability to pred<br>associated with<br>CONTAINME                                                        | lict and/or monitor changes in parameters<br>h operating the PRIMARY<br>ENT AND AUX. CONTROLS including:                                                                                               | (41.5 / 45.5)                           |      |         |     |             |  |
| A1.01 | Drywell temr                                                                                           | perature                                                                                                                                                                                               |                                         | 3.5  | 3.6     | 3.5 | 3.6         |  |
| A1 02 | Drywell press                                                                                          | sure                                                                                                                                                                                                   |                                         | 3.6  | 3.7     | 3.6 | 3.7         |  |
| A1.03 | Containment                                                                                            | pressure: Mark-III                                                                                                                                                                                     |                                         | 3.6  | 3.8     | 3.6 | 3.8         |  |
| A1 04 | Containment                                                                                            | temperature: Mark-III                                                                                                                                                                                  |                                         | 3.3  | 3.4     | 3.3 | 3.4         |  |
| A1.05 | Hydrogen con                                                                                           | acentration                                                                                                                                                                                            |                                         | 3.1  | 3.3     | 3.1 | 3.3         |  |
| A1.06 | Oxygen conc                                                                                            | eptration                                                                                                                                                                                              |                                         | 3.1  | 3.3     | 3.1 | 3.3         |  |
| A1.07 | Drywell/suppression chamber differential pressure (drywell<br>to containment building): Plant-Specific |                                                                                                                                                                                                        | 3.2                                     | 3.4  | 3.2     | 3.4 |             |  |
| A1.08 | Suppression p                                                                                          | bool level                                                                                                                                                                                             |                                         | 3.5  | 3.6     | 3.5 | 3.6         |  |
| A1.09 | Suppression p                                                                                          | pool temperature                                                                                                                                                                                       |                                         | 3.5  | 3.6     | 3.5 | 3.6         |  |
| A1.10 | Drywell leak                                                                                           | detection system: Plant-Specific                                                                                                                                                                       |                                         | 3.4  | 3.6     | 3.4 | 3.6         |  |
| A1.11 | <del>Reactor buildi</del><br><del>Plant-Specific</del>                                                 | ng to suppression chamber differential pressure:                                                                                                                                                       | _                                       | 3.1  | 3.2     | 3.1 | 3.2         |  |
| A1.12 | Moisture conc                                                                                          | entration                                                                                                                                                                                              |                                         | 2.5  | 2.6     | 2.5 | 2.6         |  |
| A2    | Ability to (a) p<br>PRIMARY CO<br>AUXILIARIE<br>procedures to                                          | predict the impacts of the following on the<br>ONTAINMENT SYSTEM AND<br>S; and (b) based on those predictions, use<br>correct, control, or mitigate the<br>of those abnormal conditions or operations: | (41.5 / 45.6)                           |      |         |     |             |  |
| A2.01 | Loss of coola                                                                                          | nt accident                                                                                                                                                                                            |                                         | 4.3* | 4.4*    | 4.3 | 4.4         |  |
| A2.02 | Steam bypass                                                                                           | of suppression pool                                                                                                                                                                                    |                                         | 3.9  | 4.1     | 3.9 | 4.1         |  |
| A2.03 | Safety/relief                                                                                          | valve leaking or stuck open                                                                                                                                                                            |                                         | 4.0  | 4.2*    | 4.0 | 4.2         |  |
| A2.04 | High contain                                                                                           | ment/drywell hydrogen concentration                                                                                                                                                                    |                                         | 3.7  | 3.8     | 3.7 | 3.8         |  |
| A2.05 | High contains                                                                                          | ment/drywell oxygen concentration                                                                                                                                                                      |                                         | 3.5  | 3.6     | 3.5 | 3.6         |  |
| A2.06 | High contain                                                                                           | ment pressure: Mark-III                                                                                                                                                                                |                                         | 4.1* | 4.1*    | 4.1 | 4.1         |  |
| A2.07 | High drywell                                                                                           | pressure                                                                                                                                                                                               |                                         | 4.2* | 4.3*    | 4.2 | 4.3         |  |
| A2.08 | Compressor t                                                                                           | rips (loss of air): Plant-Specific                                                                                                                                                                     |                                         | 3.1  | 3.1     | 3.1 | 3.1         |  |
| A2.09 | Vacuum brea                                                                                            | ker malfunction                                                                                                                                                                                        |                                         | 3.4  | 3.6     | 3.4 | 3.6         |  |
| A2.10 | High drywell                                                                                           | temperature                                                                                                                                                                                            |                                         | 3.6  | 3.8     | 3.6 | 3.8         |  |
| A2.11 | Abnormal su                                                                                            | pression pool level                                                                                                                                                                                    |                                         | 3.6  | 3.8     | 3.6 | 3.8         |  |
| A2.12 | Abnormal su                                                                                            | npression pool temperature                                                                                                                                                                             |                                         | 3.7  | 3.8     | 3.7 | 3.8         |  |
| A2.13 | High contain                                                                                           | ment temperature: Mark-III                                                                                                                                                                             |                                         | 3.3  | 3.4     | 3.3 | 3.4         |  |
| A2.14 | Low containn                                                                                           | nent to annulus pressure: Mark-III                                                                                                                                                                     |                                         | 3.4  | 3.4     | 3.4 | 3.4         |  |

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|               | System Number: 223001                                                                                      |      |        |               |        |
|               | System Name: Primary Containment System and Auxiliaries                                                    | NRC  | Imp    | <u>Facili</u> | ty Imp |
|               | CFR                                                                                                        | RO   | SRO    | RO            | SRO    |
| A3            | Ability to monitor automatic operations of the PRIMARY (41.7 / 45.7)<br>CONTAINMENT SYSTEM AND AUXILIARIES |      |        |               |        |
|               | including:                                                                                                 |      |        |               |        |
| A3.01         | Suppression pool level                                                                                     | 3.4  | 3.5    | 3.4           | 3.5    |
| A3.02         | Vacuum breaker/relief valve operation                                                                      | 3.4  | 3.4    | 3.4           | 3.4    |
| A3.03         | System indicating light and alarms                                                                         | 3.4  | 3.3    | 3.4           | 3.3    |
| A3.04         | Containment/drywell response during LOCA                                                                   | 4.2* | 4.3*   | 4.2           | 4.3    |
| A3.05         | Drywell pressure                                                                                           | 4.3* | 4.3*   | 4.3           | 4.3    |
| A3.06         | Drywell/suppression chamber differential pressure: Mark 1,II                                               | 3.4  | 3.3    | 3.4           | 3.3    |
| A3.07         | Containment/drywell differential pressure: Mark-III                                                        | 3.6  | 3.6    | 3.6           | 3.6    |
| A4            | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:                      |      |        |               |        |
| A4.01         | Containment relief valves: Mark-III                                                                        | 3.5  | 3.5    | 3.5           | 3.5.   |
| A4.02         | ACAD compressors: Plant Specific                                                                           | 2.6  | 2.6    | 2.6           | 2.6    |
| A4.03         | Air dilution valves to drywell and suppression pool:<br>Plant-Specific                                     | 3.4  | 3.4    | 3.4           | 3.4    |
| A4.04         | Containment/drywell hydrogen concentration                                                                 | 3.5  | 3.6    | 3.5           | 3.6    |
| A4.05         | Containment/drywell oxygen concentration                                                                   | 3.6  | 3.6    | 3.6           | 3.6    |
| A4.06         | Containment pressure: Mark-III                                                                             | 4.0* | 4.0*   | 4.0           | 4.0    |
| A4.07         | Drywell pressure                                                                                           | 4.2* | 4.1    | 4.2           | 4.1    |
| 1.08          | System indicating lights and alarms                                                                        | 3.4  | 3.3    | 3.4           | 3.3    |
| -4 09         | SPDS/CRIDS/ERIS/GDS: Plant-Specific                                                                        | 2.5  | 2.9*   | 2.5           | 2.9    |
| A4.10         | Drywell nitrogen makeun: Mark-1.11                                                                         | 3.2  | 3.2    | 3.2           | 3.2    |
| A4 11         | Drywell meumatics                                                                                          | 3.1  | 3.0    | 3.1           | 3.0    |
| A4 12         | Drywell coolers/chillers                                                                                   | 3.5  | 3.6    | 3.5           | 3.6    |
| A4 13         | Hydrogen recombiners: Plant-Specific                                                                       | 3.4  | 3.4    | 3.4           | 3.4    |
| A4.14         | Hydrogen igniters: Plant-Specific                                                                          | 3.7  | 3.7    | 3.7           | 3.7    |

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|               | System Number:                    | 223002                                                                     |                                  |            |            |              |     |
|---------------|-----------------------------------|----------------------------------------------------------------------------|----------------------------------|------------|------------|--------------|-----|
|               | System Name:                      | Primary Containment Isolation System/Nuclear                               |                                  | NRC Imp    |            | Facility Imp |     |
|               | <u>0</u> ,5                       | Steam Supply Shut-Off                                                      | CFR                              | RO         | SRO        | RO           | SRO |
| K1            | Knowledge of the effect relations | the physical connections and/or cause-<br>ships between PCIS/NSSSS and the | (41.2 to 41.9 / 45.7 to<br>45.8) |            |            |              |     |
| <b>W1 61</b>  | tollowing:                        |                                                                            |                                  | 3.6        | 3.0        | 38           | 30  |
| K1.01         | Main steam s                      | ystem                                                                      |                                  | 2.0        | 2.5        | 2.0          | 2.5 |
| K1.02         | Reactor water                     | rcleanup                                                                   |                                  | 2.2        | 2.2        | 2.0          | 2.5 |
| K1.03         | Plant ventilati                   |                                                                            |                                  | 3.0        | 3.2        | 3.0          | 3.2 |
| K1.04         | High pressure                     | coolant injection: Plant-Specific                                          |                                  | 3.3<br>2.0 | 2.0        | 2.2          | 2.0 |
| K1.05         | Isolation cond                    | enser: Plant-Specific                                                      |                                  | 2.8<br>2.0 | 2.0        | 2.0          | 2.0 |
| K1.06         | Recirculation                     | system                                                                     |                                  | 2.9        | 3.2        | 2.9          | 3.2 |
| K1.07         | Reactor core                      | isolation cooling; Plant-Specific                                          |                                  | 3.4        | 3.0<br>2.5 | 3.4<br>2.4   | 3.0 |
| K1.08         | Shutdown coo                      | oling system/RHR                                                           |                                  | 3.4        | 3.5        | 3.4          | 3.3 |
| K1.09         | Reactor vesse                     | el head spray: Plant-Specific                                              |                                  | 3.0        | 3.2        | 3.0          | 3.2 |
| <b>K1</b> .10 | Containment                       | ventilation                                                                |                                  | 3.1        | 3.2        | 3.1          | 3.2 |
| K1.11         | Containment                       | atmosphere sampling                                                        |                                  | 2.9        | 3.2        | 2.9          | 3.2 |
| K1.12         | Standby gas t                     | reatment system                                                            |                                  | 3.1        | 3.3        | 3.1          | 3.3 |
| <b>K1</b> .13 | Traversing in-                    | core probe system                                                          |                                  | 2.7        | 2.9        | 2.7          | 2.9 |
| K1.14         | Containment                       | drainage system                                                            |                                  | 2.8        | 3.1        | 2.8          | 3.1 |
| <b>K1</b> .15 | High pressure                     | e core spray : Plant-Specific                                              |                                  | 3.4        | 3.4        | 3.4          | 3.4 |
| K1.16         | Process comp                      | outer                                                                      |                                  | 2.1*       | 2.2*       | 2.1          | 2.2 |
| K1.17         | SPDS/ERIS/C                       | CRIDS/GDS: Plant-Specific                                                  |                                  | 2.4        | 2.6        | 2.4          | 2.6 |
| K1.18         | Reactor buildi                    | ng drainage system: Plant Specific                                         |                                  | 2.5        | 2.6        | 2.5          | 2.6 |
| K1.19         | Component c                       | ooling water systems                                                       |                                  | 2.7        | 2.9        | 2.7          | 2.9 |
| 1.20          | A.C. distribut                    | tion: Plant-Specific                                                       |                                  | 2.8        | 3.0        | 2.8          | 3.0 |
| <b>K</b> 1.21 | Circulating w                     | ater: Plant-Specific                                                       |                                  | 2.2*       | 2.3*       | 2.2          | 2.3 |
| K1.22         | Containment r                     | nitrogen inerting system: Plant-Specific                                   |                                  | 2.8        | 3.0        | 2.8          | 3.0 |
| K1.23         | River water n                     | nakeup: Plant-Specific                                                     |                                  | 2.0*       | 2.1        | 2.0          | 2.1 |
| К2            | Knowledge of                      | electrical power supplies to the following                                 | : (41.7)                         |            |            |              |     |
| K2.01         | Logic power                       | supplies                                                                   | ·                                | 2.4*       | 2.7*       | 2.4          | 2.7 |

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|       | System Number:  | 223002                                               |               |         |      |            |          |
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|       | System Name:    | n Name: Primary Containment Isolation System/Nuclear |               | NRC Imp |      | Facility I |          |
|       |                 | Steam Supply Shut-Off                                | CFR           | RO      | SRO  | RO         | <u>ک</u> |
| K3    | Knowledge of t  | the effect that a loss or malfunction of the         | (41.7 / 45.4) |         |      |            |          |
|       | PCIS/NSSSS w    | vill have on following:                              | . ,           |         |      |            |          |
| K3.01 | Reactor water   | · level                                              |               | 3.7     | 3.7  | 3.7        | 3.7      |
| K3.02 | Fuel cladding   | temperature                                          |               | 3.6     | 3.7  | 3.6        | 3.7      |
| K3.03 | †Off-site radi  | oactive release rates                                |               | 3.6     | 3.8  | 3.6        | 3.8      |
| K3.04 | Reactor buildin | ng radiation level                                   |               | 3.4     | 3.6  | 3.4        | 3.6      |
| K3.05 | Drainage sum    | p levels                                             |               | 2.7     | 2.8  | 2.7        | 2.8      |
| K3.06 | Turbine build   | ing radiation                                        |               | 2.8     | 2.9  | 2.8        | 2.9      |
| K3.07 | Reactor press   | ure                                                  |               | 3.7     | 3.8  | 3.7        | 3.8      |
| K3.08 | Reactor vesse   | l temperature                                        |               | 3.4     | 3.5  | 3.4        | 3.5      |
| K3.09 | Main steam sy   | ystem                                                |               | 3.4     | 3.6  | 3.4        | 3.6      |
| K3.10 | Reactor water   | cleanup                                              |               | 2.9     | 3.1  | 2.9        | 3.1      |
| K3.11 | Plant ventilati | on                                                   |               | 2.8     | 2.9  | 2.8        | 2.9      |
| K3.12 | High pressure   | coolant injection: Plant-Specific                    |               | 3.6     | 3.6  | 3.6        | 3.6      |
| K3.13 | Isolation conde | enser: Plant-Specific                                |               | 3.7     | 3.7  | 3.7        | 3.7      |
| K3.14 | Recirculation   | system: Plant-Specific                               |               | 3.0     | 3.0  | 3.0        | 3.0      |
| K3.15 | Reactor core i  | solation cooling: Plant-Specific                     |               | 3.4     | 3.5  | 3.4        | 3.5      |
| K3.16 | Shutdown coo    | bling system/RHR                                     |               | 3.2     | 3.3  | 3.2        | 3.3      |
| K3.17 | Reactor vesse   | l head spray: Plant-Specific                         |               | 2.8     | 2.9  | 2.8        | 2.9      |
| K3.18 | Containment     | ventilation                                          |               | 3.0     | 3.1  | 3.0        | 3.1      |
| K3.19 | Containment     | atmosphere sampling                                  |               | 2.8     | 3.0  | 2.8        | 3.0      |
| K3.20 | Standby gas to  | reatment system                                      |               | 3.3     | 3.4  | 3.3        | 3.4      |
| K3.21 | Traversing in ( | <del>core probe system</del>                         |               | 2.6     | 2.7  | 2.6        | 2        |
| K3.22 | Containment     | drainage system                                      |               | 2.5     | 2.6  | 2.5        | 2.6      |
| K3.23 | High pressure   | e core spray : Plant-Specific                        |               | 3.6     | 3.6  | 3.6        | 3.6      |
| K3.24 | Reactor buildin | ng drainage system                                   |               | 2.4     | 2.6  | 2.4        | 2.6      |
| K3.25 | Component co    | ooling water systems                                 |               | 2.3     | 2.3  | 2.3        | 2.3      |
| K3.26 | A.C. distribut  | ion                                                  |               | 2.1*    | 2.2* | 2.1        | 2.2      |
| K3.27 | Circulating w   | ater                                                 |               | 1.8*    | 1.8* | 1.8        | 1.8      |
| K3.28 | Containment n   | nitrogen inerting system                             |               | 2.7     | 2.8  | 2.7        | 2.8      |
| K3.29 | River water m   | nakeup                                               |               | 1.8*    | 1.8* | 1.8        | 1.8      |
|       |                 |                                                      |               |         |      |            |          |

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|          | Facility: CPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            | Printed: 08/11/2006 |             |               |        |            |
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|          | <u>System Number:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 223002                                                                                                                     |                     |             |               |        |            |
|          | System Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Primary Containment Isolation System/                                                                                      | Nuclear             | NRC         | Imn           | Facili | tv Imn     |
| No. 11   | System Mame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Steam Supply Shut-Off                                                                                                      | CFR                 | RO          | SRO           | RO     | SRO        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |                     |             |               |        |            |
| K4       | Knowledge of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PCIS/NSSSS design feature(s) and/or                                                                                        | (41.7)              |             |               |        |            |
| 17 4 01  | interlocks white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ch provide for the following:                                                                                              |                     | 2.0         | 2 2           | 2.0    | 2.2        |
| K4.01    | Redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |                     | 5.0         | 3.2           | 3.0    | 3.2        |
| K4.02    | Testability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |                     | 2.7         | 2.9           | 2.7    | 2.9        |
| K4.03    | Manual initiat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | tion capability: Plant-Specific                                                                                            |                     | 3.5         | 3.6           | 3.5    | 3.0        |
| K4.04    | *Automatic b<br>specified plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ypassing of selected isolations during t conditions                                                                        |                     | 3.2         | 3.6           | 3.2    | 3.0        |
| K4.05    | Single failure<br>system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | s will not impair the function ability of the                                                                              |                     | 2.9         | 3.1           | 2.9    | 3.1        |
| K4.06    | Once initiated action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | l, system reset requires deliberate operator                                                                               |                     | 3.4         | 3.5           | 3.4    | 3.5        |
| K4.07    | Physical separation of the sep | ration of system components (to prevent<br>ronmental factors, electrical faults, and<br>ts from impairing system response) |                     | 2.8         | 2.9           | 2.8    | 2.9        |
| K4.08    | †Manual defe<br>emergency co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ating of selected isolations during specified nditions                                                                     |                     | 3.3         | 3.7           | 3.3    | 3.7        |
| K6       | Knowledge of<br>following will l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | the effect that a loss or malfunction of the have on the PCIS/NSSSS:                                                       | (41.7 / 45.7)       |             |               |        |            |
| K6.01    | A.C. electrica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | l distribution                                                                                                             |                     | 3.1         | 3.3           | 3.1    | 3.3        |
| K6.02    | D.C. electrica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | l distribution                                                                                                             |                     | 3.0         | 3.2           | 3.0    | 3.2        |
| K6.03    | Process radiat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ion monitoring system                                                                                                      |                     | 2.9         | 3.1           | 2.9    | 3.1        |
| <u> </u> | Nuclear boile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | r instrumentation                                                                                                          |                     | 3.3         | 3.5           | 3.3    | 3.5        |
| K6.05    | Containment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | instrumentation                                                                                                            |                     | 3.0         | 3.3           | 3.0    | 3.3        |
| K6.06    | Various proce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ess instrumentation                                                                                                        |                     | 2.8         | 2.9           | 2.8    | 2.9        |
| K6.07    | Essential A.C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | . power                                                                                                                    |                     | 3.2         | 3.3           | 3.2    | 3.3        |
| K6.08    | Reactor prote                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ction system                                                                                                               |                     | 3.5         | 3.7           | 3.5    | 3.7        |
| A1       | Ability to pred<br>associated with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | lict and/or monitor changes in parameters<br>1 operating the PCIS/NSSSS controls                                           | (41.5 / 45.5)       |             |               |        |            |
| A 1 01   | Including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ting lights and alonny                                                                                                     |                     | 35          | 25            | 35     | 35         |
| A 1.01   | System indica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            |                     | 27          | 27            | 37     | 3.5        |
| A 1.02   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BIDS/CDS: Blant Specific                                                                                                   |                     | -J.7<br>75* | ) 9.1<br>7 9* | 2.7    | 2.7<br>7 8 |
| A 1.03   | 5rD5/EKIS/0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Among a status                                                                                                             |                     | 2.5         | 2.0           | 2.5    | 2.0<br>2.9 |
| A1.04    | individual sys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | acm relay status                                                                                                           |                     | 2.0         | 2.0           | 2.0    | 2.0        |

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|       | Facility: CPS                     |                                                                                       |                       |      | Printe | d: 08/1 | 1/2006 |
|-------|-----------------------------------|---------------------------------------------------------------------------------------|-----------------------|------|--------|---------|--------|
|       | System Number:                    | 223002                                                                                |                       |      |        |         |        |
|       | System Name:                      | Primary Containment Isolation System/N                                                | luclear               | NRC  | Imp    | Facili  | ty I   |
|       |                                   | Steam Supply Shut-Off                                                                 | CFR                   | RO   | SRO    | RO      | 5.0    |
| A2    | Ability to (a) p<br>PCIS/NSSSS; a | redict the impacts of the following on the<br>and (b) based on those predictions, use | (41.5 / 45.6)         |      |        |         |        |
|       | procedures to o                   | correct, control, or mitigate the                                                     |                       |      |        |         |        |
|       | consequences o                    | f those abnormal conditions or operations:                                            |                       |      |        |         |        |
| A2.01 | A.C. electrical                   | distribution failures                                                                 |                       | 3.2  | 3.5    | 3.2     | 3.5    |
| A2.02 | D.C. electrical                   | l distribution failures                                                               |                       | 2.9  | 3.2    | 2.9     | 3.2    |
| A2.03 | System logic f                    | failures                                                                              |                       | 3.0  | 3.3    | 3.0     | 3.3    |
| A2.04 | Process radiat                    | ion monitoring system failures                                                        |                       | 2.9  | 3.2    | 2.9     | 3.2    |
| A2.05 | Nuclear boiler                    | instrumentation failures                                                              |                       | 3.3  | 3.6    | 3.3     | 3.6    |
| A2.06 | Containment i                     | nstrumentation failures                                                               |                       | 3.0  | 3.2    | 3.0     | 3.2    |
| A2.07 | Various proce                     | ss instrumentation failures                                                           |                       | 2.7  | 2.9    | 2.7     | 2.9    |
| A2.08 | †Surveillance                     | testing                                                                               |                       | 2.7  | 3.1    | 2.7     | 3.1    |
| A2.09 | System initiat                    | ion                                                                                   |                       | 3.6  | 3.7    | 3.6     | 3.7    |
| A2.10 | Loss of coolar                    | nt accidents                                                                          |                       | 3.9  | 4.2    | 3.9     | 4.2    |
| A2.11 | †Standby liqu                     | id initiation                                                                         |                       | 3.8  | 3.9    | 3.8     | 3.9    |
| A3    | Ability to mon<br>PCIS/NSSSS ir   | itor automatic operations of the<br>icluding:                                         | (41.7 / 45.7)         |      |        |         |        |
| A3.01 | System indica                     | ting lights and alarms                                                                |                       | 3.4  | 3.4    | 3.4     | 3.4    |
| A3.02 | Valve closure                     | S                                                                                     |                       | 3.5  | 3.5    | 3.5     | 3.5    |
| A3.03 | SPDS/ERIS/C                       | RIDS/GDS: Plant-Specific                                                              |                       | 2.5* | 2.8*   | 2.5     | 2.8    |
| A3.04 | Verification o                    | f relay operation: Plant-Specific                                                     |                       | 2.3* | 2.5    | 2.3     | 1      |
| A4    | Ability to man<br>room:           | ually operate and/or monitor in the control                                           | (41.7 / 45.5 to 45.8) |      |        |         |        |
| A4.01 | Valve closure                     | s                                                                                     |                       | 3.6  | 3.5    | 3.6     | 3.5    |
| A4.02 | Manually init                     | iate the system                                                                       |                       | 3.9  | 3.8    | 3.9     | 3.8    |
| A4.03 | Reset system                      | isolations                                                                            |                       | 3.6  | 3.5    | 3.6     | 3.5    |
| A4.04 | System indica                     | ting lights and alarms                                                                |                       | 3.5  | 3.6    | 3.5     | 3.6    |
| A4.05 | SPDS/ERIS/C                       | CRIDS/GDS: Plant-Specific                                                             |                       | 2.5* | 2.8*   | 2.5     | 2.8    |
| A4.06 | Confirm initia                    | ition to completion                                                                   |                       | 3.6* | 3.7    | 3.6     | 3.7    |

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|             | Facility: CPS                                                                                                                                                           |      | Printed: 08/11/200 |        |        |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|--------|--------|--|
|             | System Number: 226001                                                                                                                                                   |      |                    |        |        |  |
|             | System Name: RHR/LPCI: Containment Spray System Mode                                                                                                                    | NRC  | Imp                | Facili | ty lmp |  |
|             | CFF                                                                                                                                                                     | R RO | SRO                | RO     | SRO    |  |
| KI          | Knowledge of the physical connections and/or cause-<br>effect relationships between RHR/LPCI:(41.2 to 41.9 / 45.'CONTAINMENT SPRAY SYSTEM MODE and the<br>function45.8) | 7 to |                    |        |        |  |
| <b>V101</b> | tollowing:                                                                                                                                                              | 3.4  | 36                 | 34     | 36     |  |
| KI.UI       | L DCL/D LID pining                                                                                                                                                      | 3.7  | 3.0                | 3.4    | 37     |  |
| K1.02       | LPCI/KHK piping                                                                                                                                                         | 3.5  | 3.6                | 3.5    | 3.6    |  |
| K1.05       | A C electrical power                                                                                                                                                    | 31   | 3.3                | 3.1    | 33     |  |
| K1.04       | Keen fill system                                                                                                                                                        | 2.9  | 2.9                | 2.9    | 2.9    |  |
| K1.05       | Condensate transfer                                                                                                                                                     | 2.5  | 2.5                | 2.5    | 2.5    |  |
| K1.00       | D C. electrical nower                                                                                                                                                   | 2.4  | 2.5                | 2.4    | 2.5    |  |
| K1 08       | Nuclear boiler instrumentation                                                                                                                                          | 3.2  | 3.4                | 3.2    | 3.4    |  |
| K1.09       | Drywell (spray penetration): Mark-I-II                                                                                                                                  | 3.0  | 3.1                | 3.0    | 3.1    |  |
| K1.10       | Containment (spray penetration): Mark-III                                                                                                                               | 3.0  | 3.0                | 3.0    | 3.0    |  |
| K1.11       | Component cooling water systems                                                                                                                                         | 2.8  | 3.0                | 2.8    | 3.0    |  |
| K1.12       | Suppression pool (spray penetration): Plant-Specific                                                                                                                    | 3.0  | 3.0                | 3.0    | 3.0    |  |
| K1.13       | Containment instrumentation                                                                                                                                             | 3.1  | 3.2                | 3.1    | 3.2    |  |
| K2          | Knowledge of electrical power supplies to the following: (41.7)                                                                                                         |      |                    |        |        |  |
| K2.01       | Valves                                                                                                                                                                  | 2.1* | 2.3*               | 2.1    | 2.3    |  |
| K2.02       | Pumps                                                                                                                                                                   | 2.9* | 2.9*               | 2.9    | 2.9    |  |
| 2.03        | Valve control logic                                                                                                                                                     | 2.4* | 2.5*               | 2.4    | 2.5    |  |
| К3          | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4)<br>RHR/LPC1: CONTAINMENT SPRAY SYSTEM MODE<br>will have on following:                           |      |                    |        |        |  |
| K3 01       | Containment/drywell/suppression chamber pressure                                                                                                                        | 3.6  | 3.7                | 3.6    | 3.7    |  |
| K3 02       | Containment/drywell/suppression chamber temperature                                                                                                                     | 3.5  | 3.5                | 3.5    | 3.5    |  |
| K3.03       | Containment/drywell/suppression chamber components,<br>continued operation with elevated pressure and/or<br>temperature and/or level                                    | 2.9  | 3.2                | 2.9    | 3.2    |  |

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### Facility: CPS

| System Numbe | <u>r:</u> 226001 |
|--------------|------------------|
|--------------|------------------|

| CFR         RO         SRO         RO         St           K4         Knowledge of RHP/LPCI: CONTAINMENT SPRAY (41.7)<br>SYSTEM MODE design feature(s) and/or interlocks<br>which provide for the following:         (41.7)         St         St         St           K4.01         Testability of all operable components         2.6         2.8         2.9         2.8         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         3.1         2.9         2.7         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.5         2.4         2.4         2.4         2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | System Name:                                 | RHR/LPCI: Containment Spray Syste                                                              | m Mode             |     | NRC  | Imp  | <u>Facili</u> | ty In |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|-----|------|------|---------------|-------|
| K4       Knowledge of RHR/LPC1: CONTAINMENT SPRAY (41.7)<br>SYSTEM MODE design feature(s) and/or interlocks<br>which provide for the following:       2.6       2.8       2.6       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.9       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.4       2.3       2.2       2.3       2.2       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                              |                                                                                                |                    | CFR | RO   | SRO  | RO            | St.   |
| While provide for mean pressure in the provide for mean pressure in the provide for mean pressure in the pressure in thepressure in the pressure in the pressure in the pressur | K4    | Knowledge of<br>SYSTEM MO                    | RHR/LPCI: CONTAINMENT SPRAY<br>DDE design feature(s) and/or interlocks                         | (41.7)             |     |      |      |               |       |
| K100       Redundary       2.8       2.9       2.8       2.9       2.8       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       2.9       3.1       3.4       3.2       3.4       3.4       3.2       3.4       3.4       3.2       3.4       3.4       3.1       3.4       3.2       3.4       3.1       3.4       3.2       3.4       3.1       3.4       3.2       3.4       3.1       3.4       3.2       3.4       3.1       3.4       3.1       3.1       3.1       3.1       3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KA 01 | Tastability of                               | fall operable components                                                                       |                    |     | 2.6  | 28   | 26            | 28    |
| R403       Reduction in vessel injection flow during accident       2.9       3.1       2.9       3.1         R403       Reduction in vessel injection flow during accident       2.9       3.1       2.9       3.1         R404       Prevention of piping overpressurization       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.6       2.8       2.4       2.3       2.3       2.4       2.3       2.3       2.4       2.3       2.3       2.3       2.4       2.3       2.3       2.4       2.3       2.3       2.4       2.3       2.3       3.0       2.0       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K4.01 | P adundancy                                  |                                                                                                |                    |     | 2.0  | 2.0  | 2.0           | 2.0   |
| K4.04       Prevention of piping overpressurization       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.2       2.3       X1       X1       X1       X1       X1       X1       X1       X1       X1       X2       X4       X4       X1       X1 <t< td=""><td>K4.02</td><td>Reduction in</td><td>vessel injection flow during accident</td><td></td><td></td><td>2.9</td><td>3.1</td><td>2.9</td><td>3.1</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K4.02 | Reduction in                                 | vessel injection flow during accident                                                          |                    |     | 2.9  | 3.1  | 2.9           | 3.1   |
| K4.05       Pump minimum flow protection       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.4       2.4       2.4       2.4       2.4       2.4       2.7       2.9       2.9       2.9       2.9       2.9       2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K4.04 | Prevention of                                | f piping overpressurization                                                                    |                    |     | 2.4  | 2.6  | 2.4           | 2.6   |
| K4.06       Pump motor cooling       2.2*       2.3       2.2       2.3         K4.07       Prevention of water harmner       2.6       2.8       2.6       2.8         K4.08       Adequate pump net positive socion head       2.3       2.4       2.3       2.4         K4.09       Automatic containment spray inifiation: BWR-6       3.2       3.4       3.2       3.4         K4.10       Spray flow cooling       2.9       3.0       2.9       3.0       2.9       3.0         K4.11       Prevention of leakage to the environment through system       2.7       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K4.05 | Pump minim                                   | um flow protection                                                                             |                    |     | 2.5  | 2.5  | 2.5           | 2.5   |
| K4.07       Prevention of water hammer       2.6       2.8       2.6       2.8         K4.08       Adequate pump net positive soction head       2.3       2.4       2.3       2.4         K4.09       Automatic containment spray initiation: BWR-6       3.2       3.4       3.2       3.4         K4.10       Spray flow cooling       2.9       3.0       2.9       3.0       2.9       3.0         K4.11       Prevention of leakage to the environment through system       2.7       2.9       2.7       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.0       2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K4 06 | Pump motor                                   | cooling                                                                                        |                    |     | 2.2* | 2.3  | 2.2           | 2.3   |
| K4.08       Adequate pump net positive suction head       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.4       2.3       2.5       2.3       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K4 07 | Prevention of                                | f water hammer                                                                                 |                    |     | 2.6  | 2.8  | 2.6           | 2.8   |
| K4.09       Automatic containment spray initiation: BWR-6       3.2       3.4       3.2       3.4         K4.09       Automatic containment spray initiation: BWR-6       3.2       3.4       3.2       3.4         K4.10       Spray flow cooling       2.9       3.0       2.9       3.0       2.9       3.0         K4.11       Prevention of leakage to the environment through system       2.7       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K4 08 | A dequate pu                                 | mp net positive suction head                                                                   |                    |     | 2.3  | 2.4  | 2.3           | 2.4   |
| K4.10       Spray flow cooling       2.9       3.0       2.9       3.0         K4.11       Prevention of leakage to the environment through system       2.7       2.9       2.7       2.9         k4.12       Prevention of inadvertent containment spray activation       2.9       2.9       2.9       2.9       2.9         K5       Knowledge of the operational implications of the<br>CONTAINMENT SPRAY SYSTEM MODE:       (41.5 / 45.3)<br>following concepts as they apply to RHR/LPCI:       2.2*       2.2*       2.2       2.2       2.2         K5.01       System venting       2.2       2.6       2.7       2.9       2.3       2.5         K5.02       Water hammer       2.6       2.7       2.6       2.7       2.6       2.7       2.1       2.1         K5.03       Pump cavitation       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5       2.3       2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K4 09 | Automatic co                                 | ontainment spray initiation: BWR-6                                                             |                    |     | 3.2  | 3.4  | 3.2           | 3.4   |
| K4.11       Prevention of leakage to the environment through system       2.7       2.9       2.7       2.9         K4.12       Prevention of inadvertent containment spray activation       2.9       2.9       2.9       2.9         K5       Knowledge of the operational implications of the (41.5 / 45.3) following concepts as they apply to RHR/LPC1: CONTAINMENT SPRAY SYSTEM MODE:       2.2*       2.2*       2.2       2.2         K5.01       System venting       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K4 10 | Snrav flow c                                 | ooling                                                                                         |                    |     | 2.9  | 3.0  | 2.9           | 3.0   |
| Kinning       heat exchanger       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.6 </td <td>K4 11</td> <td>Prevention o</td> <td>f leakage to the environment through system</td> <td></td> <td></td> <td>2.7</td> <td>2.9</td> <td>2.7</td> <td>2.9</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K4 11 | Prevention o                                 | f leakage to the environment through system                                                    |                    |     | 2.7  | 2.9  | 2.7           | 2.9   |
| K4.12       Prevention of inadvertent containment spray activation       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.6       2.7       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1 </td <td></td> <td>heat exchang</td> <td>er</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | heat exchang                                 | er                                                                                             |                    |     |      |      |               |       |
| K5       Knowledge of the operational implications of the following concepts as they apply to RHR/LPC1: CONTAINMENT SPRAY SYSTEM MODE:       (41.5 / 45.3)         K5.01       System venting       2.2*       2.2*       2.2       2.2         K5.02       Water hammer       2.6       2.7       2.6       2.7         K5.03       Pump cavitation       2.3       2.5       2.3       2.5         K5.04       Evaporative cooling       2.1*       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1       2.1         K5.06       Vacuum breaker operation       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPC1: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.01       A.C. electrical power       2.6       2.9       2.6       2.9         K6.02       D.C. electrical power       3.4       3.6       3.4       3.6         K6.03       Emergency generator       3.4       3.6       3.4       3.6 <t< td=""><td>K4.12</td><td>Prevention o</td><td>f inadvertent containment spray activation</td><td></td><td></td><td>2.9</td><td>2.9</td><td>2.9</td><td>2.9</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K4.12 | Prevention o                                 | f inadvertent containment spray activation                                                     |                    |     | 2.9  | 2.9  | 2.9           | 2.9   |
| K5.01       System venting       2.2*       2.2*       2.2       2.2       2.2         K5.02       Water hammer       2.6       2.7       2.6       2.7         K5.03       Pump cavitation       2.3       2.5       2.3       2.5         K5.04       Evaporative cooling       2.1*       2.1*       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1       2.1 <t< td=""><td>К5</td><td>Knowledge of<br/>following cone<br/>CONTAINM</td><td>the operational implications of the cepts as they apply to RHR/LPCI:<br/>ENT SPRAY SYSTEM MODE:</td><td>(41.5 / 45.3)</td><td></td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | К5    | Knowledge of<br>following cone<br>CONTAINM   | the operational implications of the cepts as they apply to RHR/LPCI:<br>ENT SPRAY SYSTEM MODE: | (41.5 / 45.3)      |     |      |      |               |       |
| K5.02       Water hammer       2.6       2.7       2.6       2.7         K5.03       Pump cavitation       2.3       2.5       2.3       2.5         K5.04       Evaporative cooling       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1         K5.06       Vacuum breaker operation       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.07       ECCS room cooling       2.4       2.4       2.4       2.4       2.4         K6.08       Nuclear boiler i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K5.01 | System venti                                 | ng                                                                                             |                    |     | 2.2* | 2.2* | 2.2           | 2.2   |
| K5.03       Pump cavitation       2.3       2.5       2.3       2.5         K5.04       Evaporative cooling       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1         K5.06       Vacuum breaker operation       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.01       A.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.05       Suppression pool (temperature level and pressure)       2.4       2.4       2.4       2.4         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | K5.02 | Water hamm                                   | er                                                                                             |                    |     | 2.6  | 2.7  | 2.6           | 2.7   |
| K5.04       Evaporative cooling       2.1*       2.1*       2.1*       2.1       2.1         K5.05       Convective cooling       2.1*       2.1*       2.1       2.1       2.1         K5.05       Vacuum breaker operation       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.01       A.C. electrical power       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.07       ECCS room cooling       2.7       2.8       2.7       2.8         K6.09       tReactor building to suppression chamber vacuum breakers: Mark-1-II       3.3       3.5       3.3       3.5         K6.10       tSuppression chamber to drywell vacuum breakers: Mark-1-II       3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K5.03 | Pump cavitat                                 | lion                                                                                           |                    |     | 2.3  | 2.5  | 2.3           | 2.5   |
| K5.05       Convective cooling       2.1*       2.1*       2.1       2.1         K5.06       Vacuum breaker operation       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.01       A.C. electrical power       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.08       Nuclear boiler instrumentation       2.7       2.8       2.7       2.8         K6.09       ‡Reactor building to suppression chamber vacuum breakers: Mark 1-II       3.3       3.5       3.3       3.5         K6.10       ‡                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K5.04 | Evaporative                                  | cooling                                                                                        |                    |     | 2.1* | 2.1* | 2.1           | 2.1   |
| K5.06       Vacuum breaker operation       2.6       2.8       2.6       2.8       2.6       2.8         K6       Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE:       3.0       3.3       3.0       3.3         K6.01       A.C. electrical power       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.6       2.4       2.6       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K5.05 | Convective c                                 | cooling                                                                                        |                    |     | 2.1* | 2.1* | 2.1           | 2.1   |
| K6       Knowledge of the effect that a loss or malfunction of the (41.7 / 45.7) following will have on the RHR/LPC1: CONTAINMENT SPRAY SYSTEM MODE:         K6.01       A.C. electrical power       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.07       ECCS room cooling       2.7       2.7       2.7       2.8       2.7       2.8       2.7       2.8       2.7       2.8       2.7       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K5.06 | Vacuum brea                                  | aker operation                                                                                 |                    |     | 2.6  | 2.8  | 2.6           | 2.8   |
| K6.01       A.C. electrical power       3.0       3.3       3.0       3.3         K6.02       D.C. electrical power       2.6       2.9       2.6       2.9         K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.07       ECCS room cooling       2.7       2.7       2.8       2.7       2.8         K6.08       Nuclear boiler instrumentation       2.7       2.8       2.7       2.8         K6.09       †Reactor building to suppression chamber vacuum breakers:-<br>Plant-Specific       3.3       3.5       3.3       3.5         K6.10       †Suppression chamber to drywell vacuum breakers:-<br>Plant-Specific       3.4       3.5       3.3       3.5         K6.11       Component cooling water systems       2.8       2.8       2.8       2.8       2.8         K6.12       Containment integrity       3.4       3.5       3.4       3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K6    | Knowledge of<br>following will<br>SPRAY SYST | The effect that a loss or malfunction of the have on the RHR/LPCI: CONTAINMEN                  | (41.7 / 45.7)<br>T |     |      |      |               |       |
| K6.02D.C. electrical power2.62.92.62.9K6.03Emergency generator $3.4$ $3.6$ $3.4$ $3.6$ $3.4$ $3.6$ K6.04Keep fill system $2.7$ $2.7$ $2.7$ $2.7$ $2.7$ K6.05Suppression pool (temperature level and pressure) $3.4$ $3.6$ $3.4$ $3.6$ K6.06Condensate transfer $2.4$ $2.4$ $2.4$ $2.4$ $2.4$ K6.07ECCS room cooling $2.4$ $2.6$ $2.4$ $2.6$ $2.4$ $2.6$ K6.08Nuclear boiler instrumentation $2.7$ $2.8$ $2.7$ $2.8$ $2.7$ $2.8$ K6.09‡Reactor building to suppression chamber vacuum breakers:<br>Plant-Specific $3.3$ $3.5$ $3.3$ $3.5$ K6.10‡Suppression chamber to drywell vacuum breakers: Mark-1-II $3.3$ $3.5$ $3.3$ $3.5$ K6.11Component cooling water systems $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ K6.12Containment integrity $3.4$ $3.5$ $3.4$ $3.5$ K6.13Suction flow path $3.2$ $3.2$ $3.2$ $3.2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K6.01 | A.C. electric                                | al power                                                                                       |                    |     | 3.0  | 3.3  | 3.0           | 3.3   |
| K6.03       Emergency generator       3.4       3.6       3.4       3.6         K6.04       Keep fill system       2.7       2.7       2.7       2.7         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6 <td>K6.02</td> <td>D.C. electric</td> <td>al power</td> <td></td> <td></td> <td>2.6</td> <td>2.9</td> <td>2.6</td> <td>2.9</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K6.02 | D.C. electric                                | al power                                                                                       |                    |     | 2.6  | 2.9  | 2.6           | 2.9   |
| K6.04Keep fill system2.72.72.72.72.7K6.05Suppression pool (temperature level and pressure)3.43.63.43.6K6.06Condensate transfer2.42.42.42.4K6.07ECCS room cooling2.42.62.42.6K6.08Nuclear boiler instrumentation2.72.82.72.8K6.09 <b>†Reactor building to suppression chamber vacuum breakers:</b><br>Plant-Specific3.33.53.33.5K6.10 <b>†Suppression chamber to drywell vacuum breakers:</b><br>Mark-1-H3.33.53.33.5K6.10 <b>†Suppression chamber to drywell vacuum breakers:</b><br>Mark-1-H3.33.53.33.5K6.11Component cooling water systems2.82.82.82.8K6.12Containment integrity3.43.53.43.5K6.13Suction flow path3.23.23.23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K6.03 | Emergency g                                  | generator                                                                                      |                    |     | 3.4  | 3.6  | 3.4           | 3.6   |
| K6.05       Suppression pool (temperature level and pressure)       3.4       3.6       3.4       3.6         K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4         K6.07       ECCS room cooling       2.4       2.6       2.4       2.6       2.4       2.6         K6.08       Nuclear boiler instrumentation       2.7       2.8       2.7       2.8         K6.09 <b>†Reactor building to suppression chamber vacuum breakers:</b><br>Plant-Specific       3.3       3.5       3.3       3.5         K6.10 <b>†Suppression chamber to drywell vacuum breakers:</b><br>Mark-1-II       3.3       3.5       3.3       3.5         K6.11       Component cooling water systems       2.8       2.8       2.8       2.8         K6.12       Containment integrity       3.4       3.5       3.4       3.5         K6.13       Suction flow path       3.2       3.2       3.2       3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | K6.04 | Keep fill sys                                | tem                                                                                            |                    |     | 2.7  | 2.7  | 2.7           | 2.7   |
| K6.06       Condensate transfer       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.4       2.6       2.7       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K6.05 | Suppression                                  | pool (temperature level and pressure)                                                          |                    |     | 3.4  | 3.6  | 3.4           | 3.6   |
| K6.07       ECCS room cooling       2.4       2.6       2.4       2.6         K6.08       Nuclear boiler instrumentation       2.7       2.8       2.7       2.8         K6.09 <b>‡Reactor building to suppression chamber vacuum breakers:</b><br>Plant-Specific       3.3       3.5       3.3       3.5         K6.10 <b>‡Suppression chamber to drywell vacuum breakers:</b> Mark-1-II       3.3       3.5       3.3       3.5         K6.11       Component cooling water systems       2.8       2.8       2.8       2.8       2.8         K6.12       Containment integrity       3.4       3.5       3.4       3.5         K6.13       Suction flow path       3.2       3.2       3.2       3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K6.06 | Condensate ti                                | ransfer                                                                                        |                    |     | 2.4  | 2.4  | 2.4           | 2.4   |
| K6.08Nuclear boiler instrumentation2.72.82.72.8K6.09 <b>†Reactor building to suppression chamber vacuum breakers:</b><br>Plant-Specific3.33.53.33.5K6.10 <b>†Suppression chamber to drywell vacuum breakers:</b><br>Mark-1-II3.33.53.33.5K6.11Component cooling water systems2.82.82.82.82.8K6.12Containment integrity3.43.53.43.5K6.13Suction flow path3.23.23.23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K6.07 | ECCS room                                    | cooling                                                                                        |                    |     | 2.4  | 2.6  | 2.4           | 2.6   |
| K6.09 <b>†Reactor building to suppression chamber vacuum breakers:</b><br>Plant-Specific3.33.53.33.5K6.10 <b>†Suppression chamber to drywell vacuum breakers: Mark-1-II</b> 3.33.53.33.5K6.11Component cooling water systems2.82.82.82.8K6.12Containment integrity3.43.53.43.5K6.13Suction flow path3.23.23.23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K6.08 | Nuclear boil                                 | er instrumentation                                                                             |                    |     | 2.7  | 2.8  | 2.7           | 2.8   |
| K6.10 <b>†Suppression chamber to drywell vacuum breakers: Mark-1-II</b> 3.3         3.5         3.3         3.5           K6.11         Component cooling water systems         2.8         2.8         2.8         2.8         2.8         2.8         2.8         2.8         2.8         2.8         2.8         3.4         3.5         3.4         3.5           K6.12         Containment integrity         3.4         3.5         3.4         3.5           K6.13         Suction flow path         3.2         3.2         3.2         3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K6.09 | <b>†Reactor buil</b><br>Plant-Specific       | ding to suppression chamber vacuum breaker                                                     | <del>s:-</del>     |     | 3.3  | 3.5  | 3.3           | 3.5   |
| K6.11         Component cooling water systems         2.8         2.8         2.8         2.8           K6.12         Containment integrity         3.4         3.5         3.4         3.5           K6.13         Suction flow path         3.2         3.2         3.2         3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K6.10 | *Suppression                                 | -chamber to drywell vacuum breakers: Mark-                                                     | 1-11               |     | 3.3  | 3.5  | 3.3           | 3.5   |
| K6.12Containment integrity3.43.53.43.5K6.13Suction flow path3.23.23.23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | K6.11 | Component                                    | cooling water systems                                                                          |                    |     | 2.8  | 2.8  | 2.8           | 2.8   |
| K6.13         Suction flow path         3.2         3.2         3.2         3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | K6.12 | Containment                                  | lintegrity                                                                                     |                    |     | 3.4  | 3.5  | 3.4           | 3.5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | K6.13 | Suction flow                                 | / path                                                                                         |                    |     | 3.2  | 3.2  | 3.2           | 3.2   |

|               | Facility: CPS                                                                                                                                                                                      |             | Printed: 08/11/2 |         |       |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|---------|-------|--|
|               | System Number: 226001                                                                                                                                                                              |             |                  |         |       |  |
|               | System Name: RHR/LPCI: Containment Spray System Mode                                                                                                                                               | NRC         | lmp              | Facilit | у Ітр |  |
|               | CF                                                                                                                                                                                                 | <b>R</b> RO | SRO              | RO      | SRO   |  |
| 41            | Ability to predict and/or monitor changes in parameters (41.5 / 45.5)<br>associated with operating the RHR/LPCI:<br>CONTAINMENT SPRAY SYSTEM MODE controls                                         |             |                  |         |       |  |
| 41.01         | Container ent/dravell processo                                                                                                                                                                     | 3.6         | 3.8              | 3.6     | 38    |  |
| 41.01         | Containment/drywell pressure                                                                                                                                                                       | 3.0         | 3.5              | 3.0     | 3.5   |  |
| 41.02         | tSuppression shamber pressure: Mark I II                                                                                                                                                           | 35          | 3.8              | 35      | 3.8   |  |
| 41.05         | Suppression noal temperature: Mark 1 II                                                                                                                                                            | 3.3         | 3.6              | 33      | 3.6   |  |
| 11.04         | Suppression poor temperature: Wark-1-11                                                                                                                                                            | 3.1         | 3.4              | 3.1     | 3.4   |  |
| A1.05         | System flow                                                                                                                                                                                        | 3.1         | 3.1              | 3.2     | 3.7   |  |
| 11.00         | System processo                                                                                                                                                                                    | 3.1         | 3.1              | 31      | 3.1   |  |
| 11.07         | System pressure                                                                                                                                                                                    | 3.1         | 3.4*             | 31      | 3.4   |  |
| 41.08         | Motor emps                                                                                                                                                                                         | 2.1*        | 21               | 2.1     | 21    |  |
| A1.10         | Emergency generator loading                                                                                                                                                                        | 3.0         | 3.2              | 3.0     | 3.2   |  |
|               | RHR/LPC1: CONTAINMENT SPRAY SYSTEM<br>MODE; and (b) based on those predictions, use<br>procedures to correct, control, or mitigate the<br>consequences of those abnormal conditions or operations: |             |                  |         |       |  |
| <b>A2.0</b> 1 | Inadequate net positive suction head                                                                                                                                                               | 2.4         | 2.6              | 2.4     | 2.6   |  |
| 2.02          | Pumps trips                                                                                                                                                                                        | 3.1         | 3.2              | 3.1     | 3.2   |  |
| 42.03         | Valve closures                                                                                                                                                                                     | 3.1         | 3.1              | 3.1     | 3.1   |  |
| 42.04         | Valve openings                                                                                                                                                                                     | 3.0         | 3.0              | 3.0     | 3.0   |  |
| 42.05         | A.C. electrical failures                                                                                                                                                                           | 3.3         | 3.4              | 3.3     | 3.4   |  |
| 42.06         | D.C. electrical failures                                                                                                                                                                           | 2.8         | 2.9              | 2.8     | 2.9   |  |
| <b>A2</b> .07 | Emergency generator failure                                                                                                                                                                        | 3.4         | 3.6              | 3.4     | 3.6   |  |
| 42.08         | Pump seal failure                                                                                                                                                                                  | 2.4         | 2.5              | 2.4     | 2.5   |  |
| 42.09         | Inadequate room cooling                                                                                                                                                                            | 2.6         | 2.7              | 2.6     | 2.7   |  |
| 42.10         | Nuclear boiler instrument failures                                                                                                                                                                 | 3.0         | 3.1              | 3.0     | 3.1   |  |
| 42.11         | Motor operated valve failures                                                                                                                                                                      | 3.0         | 3.0              | 3.0     | 3.0   |  |
| 42.12         | Pump runout                                                                                                                                                                                        | 2.5         | 2.6              | 2.5     | 2.6   |  |
| 42.13         | Valve logic failure                                                                                                                                                                                | 2.8         | 2.9              | 2.8     | 2.9   |  |
| 42.14         | High suppression pool level                                                                                                                                                                        | 2.9         | 3.1              | 2.9     | 3.1   |  |
| 42.15         | High containment / drywell pressure                                                                                                                                                                | 3.6         | 3.8              | 3.6     | 3.8   |  |
| 42.16         | Loss of, or inadequate heat exchanger cooling flow                                                                                                                                                 | 3.1         | 3.1              | 3.1     | 3.1   |  |
| 42.17         | †High containment / drywell temperature                                                                                                                                                            | 3.2         | 3.2              | 3.2     | 3.2   |  |
| 42.18         | †Loss of motor cooling                                                                                                                                                                             | 2.9         | 3.1              | 2.9     | 3.1   |  |
| A2.19         | +Low (or negative) suppression chamber pressure during system-<br>operation: Mark-I-II                                                                                                             | 3.5         | 3.8              | 3.5     | 3.8   |  |
| A2.20         | †Loss of coolant accident                                                                                                                                                                          | 3.7         | 4.1              | 3.7     | 4.1   |  |
| A2.21         | Loss of containment/drywell cooling system(s)                                                                                                                                                      | 3.3         | 3.4              | 3.3     | 3.4   |  |

|        | Facility: CPS                                                                                           |              |      | Printed: 08/11/2006 |      |  |  |  |
|--------|---------------------------------------------------------------------------------------------------------|--------------|------|---------------------|------|--|--|--|
|        | System Number: 226001                                                                                   |              |      |                     |      |  |  |  |
|        | System Name: RHR/LPCI: Containment Spray System Mode                                                    | NRC          | Imp  | Facility Ir         |      |  |  |  |
|        | CFR                                                                                                     | RO           | SRO  | RO                  | 5.   |  |  |  |
| A3     | Ability to monitor automatic operations of the (41.7 / 45.7)<br>RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE |              |      |                     |      |  |  |  |
| A 2 01 | Breaker tripping                                                                                        | 3 1          | 32   | 3 1                 | 32   |  |  |  |
| A3.01  | Suctom processo                                                                                         | 28           | 2.8  | 2.8                 | 2.8  |  |  |  |
| A 3.02 | L and shadding                                                                                          | 3.4          | 2.0  | 34                  | 3.5  |  |  |  |
| A3.03  | Lights and alarms                                                                                       | 31           | 31   | 31                  | 3 1  |  |  |  |
| A 2 05 | Containment pressure                                                                                    | 4 0*         | 4 0* | 4.0                 | 4.0  |  |  |  |
| A3.05  | Containment temperature                                                                                 | 35           | 3.5  | 3.5                 | 3.5  |  |  |  |
| A3.07  | Pump start                                                                                              | 3.5          | 3.5  | 3.5                 | 3.5  |  |  |  |
| A4     | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:                   |              |      |                     |      |  |  |  |
| A4.01  | Pumps                                                                                                   | 3.5          | 3.4  | 3.5                 | 3.4  |  |  |  |
| A4.02  | Suction valves                                                                                          | 3.1          | 3.1  | 3.1                 | 3.1  |  |  |  |
| A4.03  | Spray valves                                                                                            | 3.5          | 3.4  | 3.5                 | 3.4  |  |  |  |
| A4.04  | Keep fill system                                                                                        | 2.8          | 2.7  | 2.8                 | 2.7  |  |  |  |
| A4.05  | Minimum flow valves                                                                                     | 2.9          | 2.8  | 2.9                 | 2.8  |  |  |  |
| A4.06  | Heat exchanger cooling flow                                                                             | 2.9          | 2.8  | 2.9                 | 2.8  |  |  |  |
| A4.07  | Valve logic reset/ bypass/ override                                                                     | 3.5          | 3.5  | 3.5                 | 3.5  |  |  |  |
| A4.08  | System flow                                                                                             | 3.2          | 3.1  | 3.2                 | 3.1  |  |  |  |
| A4.09  | Pump discharge pressure                                                                                 | 2.8          | 2.7  | 2.8                 | 2    |  |  |  |
| A4.10  | Indicating lights and alarms                                                                            | 3.3          | 3.2  | 3.3                 | 3.2- |  |  |  |
| A4.11  | System venting                                                                                          | 2 <b>.2*</b> | 2.2* | 2.2                 | 2.2  |  |  |  |
| A4.12  | Containment/drywell pressure                                                                            | 3.8          | 3.8  | 3.8                 | 3.8  |  |  |  |
| A4.13  | Containment/drywell temperature                                                                         | 3.3          | 3.3  | 3.3                 | 3.3  |  |  |  |
| A4.14  | Suppression pool temperature                                                                            | 3.3          | 3.6  | 3.3                 | 3.6  |  |  |  |
| A4.15  | Suppression chamber pressure: Mark-I-II                                                                 | 3.6          | 3.6  | 3.6                 | 3.6  |  |  |  |
| A4.16  | The override for suppression pool spray valve logic                                                     | 3.5          | 3.5  | 3.5                 | 3.5  |  |  |  |
| A4.17  | Manual initiation controls: BWR-6                                                                       | 3.8          | 3.8  | 3.8                 | 3.8  |  |  |  |
| A4.18  | Automatic system initiation reset: BWR-6                                                                | 3.8          | 3.8  | 3.8                 | 3.8  |  |  |  |
| A4.19  | Drywell temperature                                                                                     | 3.4          | 3.4  | 3.4                 | 3.4  |  |  |  |
| A4.20  | Drywell pressure                                                                                        | 3.9          | 3.8  | 3.9                 | 3.8  |  |  |  |

|       | Facility: CPS                                 |                                                                                                  |              | Printed: 08/11/2000 |            |      |               |        |
|-------|-----------------------------------------------|--------------------------------------------------------------------------------------------------|--------------|---------------------|------------|------|---------------|--------|
|       | System Number:                                | 230000                                                                                           |              |                     |            |      |               |        |
|       | System Name:                                  | RHR/LPCI: Torus/Suppression Pool Sp                                                              | oray Mode    |                     | <u>NRC</u> | Imp  | <u>Facili</u> | ty Imp |
|       | <u></u>                                       |                                                                                                  | •            | CFR                 | RO         | SRO  | RO            | SRO    |
| K1    | Knowledge of t                                | the physical connections and/or cause-                                                           | (41.2 to 41  | 1.9 / 45.7 to       |            |      |               |        |
|       | effect relations                              | hips between RHR/LPCI:                                                                           | 45.8)        |                     |            |      |               |        |
|       | TORUS/SUPP                                    | <b>RESSION POOL SPRAY MODE</b> and the                                                           |              |                     |            |      |               |        |
|       | following:                                    |                                                                                                  |              |                     |            |      |               |        |
| K1.01 | Suppression po                                | bol                                                                                              |              |                     | 3.6        | 3.7  | 3.6           | 3.7    |
| K1.02 | Condensate sto                                | brage and transfer system                                                                        |              |                     | 2.4*       | 2.5  | 2.4           | 2.5    |
| K1.03 | LPCI/RHR pip                                  | Ning                                                                                             |              |                     | 3.3        | 3.5  | 3.3           | 3.5    |
| K1.04 | LPCI/RHR put                                  | n <del>ps</del>                                                                                  |              |                     | 3.4        | 3.6  | 3.4           | 3.6    |
| K1.05 | A.C. electrical                               |                                                                                                  |              |                     | 3.2        | 3.3  | 3.2           | 3.3    |
| K1.06 | Keep fill syster                              | m                                                                                                |              |                     | 3.0        | 3.1  | 3.0           | 3.1    |
| K1.07 | D.C. electrical                               |                                                                                                  |              |                     | 2.4*       | 2.6* | 2.4           | 2.6    |
| K1.08 | Nuclear boiler                                | instrumentation                                                                                  |              |                     | 3.1        | 3.2  | 3.1           | 3.2    |
| K1.09 | Reactor buildin                               | ng drain system                                                                                  |              |                     | 2.3*       | 2.4* | 2.3           | 2.4    |
| K1.10 | Component co                                  | oling water systems                                                                              |              |                     | 2.8        | 2.8  | 2.8           | 2.8    |
| К2    | Knowledge of (                                | electrical power supplies to the following:                                                      | (41.7)       |                     |            |      |               |        |
| K2.01 | Valves                                        |                                                                                                  |              |                     | 2.1*       | 2.3* | 2.1           | 2.3    |
| K2.02 | Pumps                                         |                                                                                                  |              |                     | 2.8*       | 2.9* | 2.8           | 2.9    |
| КЗ    | Knowledge of (<br>RHR/LPCI: T<br>MODE will ha | the effect that a loss or malfunction of the<br>`ORUS/SUPPRESSION POOL SPRAY<br>ve on following: | (41.7 / 45.  | .4)                 |            |      |               |        |
| K3.01 | Suppression cl                                | hamber pressure                                                                                  |              |                     | 3.7        | 3.9  | 3.7           | 3.9    |
| K3.02 | Suppression of                                | naliteer pressure                                                                                |              |                     | 3.3        | 3.5  | 3.3           | 3.5    |
| K3.03 | Drywell-pressi                                | ure                                                                                              |              |                     | 3.4        | 3.6  | 3.4           | 3.6    |
| K3.04 | Suppression cl                                | namber air temperature                                                                           |              |                     | 3.7        | 3.8  | 3.7           | 3.8    |
| K4    | Knowledge of<br>POOL SPRAY<br>which provide   | RHR/LPCI: TORUS/SUPPRESSION<br>( MODE design feature(s) and/or interloc<br>for the following:    | (41.7)<br>ks |                     |            |      |               |        |
| K4.01 | Surveillance for                              | or all operable components                                                                       |              |                     | 3.1        | 3.3  | 3.1           | 3.3    |
| K4.02 | Redundancy                                    |                                                                                                  |              |                     | 3.1*       | 3.2  | 3.1           | 3.2    |
| K4.03 | Unintentional<br>conditions                   | reduction in vessel injection flow during acc                                                    | eident-      |                     | 3.5        | 3.6  | 3.5           | 3.6    |
| K4.04 | Prevention of                                 | piping overpressurization                                                                        |              |                     | 3.0        | 3.2  | 3.0           | 3.2    |
| K4.05 | Pump minimu                                   | m-flow protection                                                                                |              |                     | 2.8        | 3.1  | 2.8           | 3.1    |
| K4.06 | Pump motor e                                  | ooling                                                                                           |              |                     | 2.7        | 2.8  | 2.7           | 2.8    |
| K4.07 | Prevention of                                 | water hammer                                                                                     |              |                     | 3.1        | 3.2  | 3.1           | 3.2    |
| K4.08 | Adequate pum                                  | p net positive suction head                                                                      |              |                     | 2.9        | 3.2  | 2.9           | 3.2    |
| K4.09 | Spray flow co                                 | oling                                                                                            |              |                     | 3.0        | 3.1  | 3.0           | 3.1    |
| K4.10 | Prevention of-<br>exchanger                   | leakage to the environment through system                                                        | heat-        |                     | 3.2        | 3.5  | 3.2           | 3.5    |

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|        | System Number:                                                   | 230000                                                                                                  |                                             |     |         |      |        |       |
|--------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------|-----|---------|------|--------|-------|
|        | System Name:                                                     | RHR/LPC1: Torus/Suppression Pool Sp                                                                     | RHR/LPCI. Torus/Suppression Pool Spray Mode |     | NRC Imp |      | Facili | tv Ir |
|        |                                                                  |                                                                                                         |                                             | CFR | RO      | SRO  | RO     | 5.    |
| К5     | Knowledge of (<br>following conce<br>TORUS/SUPP)                 | he operational implications of the<br>pts as they apply to RHR/LPCI:<br>RESSION POOL SPRAY MODE:        | (41.5 / 45.3)                               |     |         |      |        |       |
| K5.01  | System-venting                                                   | 1                                                                                                       |                                             |     | 2.6     | 2.7  | 2.6    | 2.7   |
| K5.02  | Pump cavitatio                                                   | ÷<br>ħ                                                                                                  |                                             |     | 2.4*    | 2.5  | 2.4    | 2.5   |
| K5.03  | Pressure measu                                                   | irement                                                                                                 |                                             |     | 2.5*    | 2.6* | 2.5    | 2.6   |
| K5.04  | Evaporative co                                                   | oling                                                                                                   |                                             |     | 2.5*    | 2.5* | 2.5    | 2.5   |
| K5.05  | Convective coo                                                   | ling                                                                                                    |                                             |     | 2.6*    | 2.6* | 2.6    | 2.6   |
| K5.06  | Heat exchange                                                    | r-operation                                                                                             |                                             |     | 2.5*    | 2.6  | 2.5    | 2.6   |
| K5.07  | Vacuum break                                                     | er operation                                                                                            |                                             |     | 2.9*    | 3.1  | 2.9    | 3.1   |
| K6     | Knowledge of t<br>following will b<br>TORUS/SUPPI                | he effect that a loss or malfunction of the<br>ave on the RHR/LPCI:<br>RESSION POOL SPRAY MODE:         | (41.7 / 45.7)                               |     |         |      |        |       |
| K6 01  | A.C. electrical                                                  | RESSIONT OUT STRAT MODE.                                                                                |                                             |     | 23      | 34   | 33     | 34    |
| K6.07  | D.C. electrical                                                  |                                                                                                         |                                             |     | 2.5*    | 2.8* | 2.5    | 28    |
| K6 03  | Emergency ger                                                    | orator                                                                                                  |                                             |     | 35      | 3.6  | 3.5    | 36    |
| K6.04  | Keen fill system                                                 | Ħ                                                                                                       |                                             |     | 2.8     | 2.8  | 2.8    | 2.8   |
| K6.05  | Suppression no                                                   | n<br>nal                                                                                                |                                             |     | 3.3     | 3.4  | 3.3    | 3.4   |
| K6.06  | Condensate sta                                                   | rage and transfer system                                                                                |                                             |     | 2.3*    | 2.4* | 2.3    | 2.4   |
| K6.07  | ECCS room co                                                     | oling                                                                                                   |                                             |     | 2.8     | 3.0  | 2.8    | 3.0   |
| K6.08  | Nuclear-boiler                                                   | instrumentation                                                                                         |                                             |     | 2.9     | 3.1  | 2.9    | 3.1   |
| K6.09  | Reactor-buildin                                                  | e to suppression pool vacuum breakers                                                                   |                                             |     | 3.5     | 3.8  | 3.5    | 3.8   |
| K6.10  | Component co                                                     | <del>bling-water systems</del>                                                                          |                                             |     | 2.5     | 2.6  | 2.5    | 2.6   |
| A1     | Ability to predi<br>associated with<br>TORUS/SUPPI<br>including: | ict and/or monitor changes in parameters<br>operating the RHR/LPC1:<br>RESSION POOL SPRAY MODE controls | (41.5 / 45.5)                               |     |         |      |        |       |
| A 1 01 | Sunnression ch                                                   | amber pressure                                                                                          |                                             |     | 3.8     | 3.9  | 3.8    | 3.9   |
| A1.02  | Suppression of                                                   | o) temperature                                                                                          |                                             |     | 3.7     | 3.8  | 3.7    | 3.8   |
| A1 03  | Drywell pressu                                                   | #e                                                                                                      |                                             |     | 3.6     | 3.8  | 3.6    | 3.8   |
| A1 04  | System flow                                                      |                                                                                                         |                                             |     | 3.3*    | 33   | 3.2    | 33    |
| A105   | System process                                                   | æ                                                                                                       |                                             |     | 2.8*    | 2.9  | 2.8    | 2.9   |
| A1.06  | Suppression no                                                   | -<br>ool level                                                                                          |                                             |     | 3 3     | 33   | 33     | 3.3   |
| A1.07  | Condensate sto                                                   | rage tank level                                                                                         |                                             |     | 2 2*    | 2.3* | 2.2    | 2.3   |
| A1.08  | Motor amos                                                       |                                                                                                         |                                             |     | 2.4*    | 2.5* | 2.4    | 2.5   |
| A1 09  | Emergency ger                                                    | erator loading                                                                                          |                                             |     | 3.3     | 3.5  | 3.3    | 3.5   |
| A1.10  | System lineun                                                    | B                                                                                                       |                                             |     | 3.7     | 3.7  | 3.7    | 3.7   |
| A].11  | Suppression-ch                                                   | amber air temperature                                                                                   |                                             |     | 3.6     | 3.6  | 3.6    | 3.6   |

----B

|       | Facility: CPS                                                                                   |         |      | Printed: 08/11/2006 |        |        |  |  |
|-------|-------------------------------------------------------------------------------------------------|---------|------|---------------------|--------|--------|--|--|
|       | System Number: 230000                                                                           |         |      |                     |        |        |  |  |
|       | System Name: RHR/LPCI: Torus/Suppression Pool Spray Mod                                         | le      | NRC  | lmp                 | Facili | ty Imp |  |  |
|       |                                                                                                 | CFR     | RO   | SRO                 | RO     | SRO    |  |  |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 /                              | 45.6)   |      |                     |        |        |  |  |
|       | RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY                                                          |         |      |                     |        |        |  |  |
|       | MODE; and (b) based on those predictions, use                                                   |         |      |                     |        |        |  |  |
|       | procedures to correct, control, or mitigate the                                                 |         |      |                     |        |        |  |  |
|       | consequences of those abnormal conditions or operations:                                        |         | • •  |                     | • •    |        |  |  |
| A2.01 | Inadequate net positive suction head                                                            |         | 3.0  | 3.2                 | 3.0    | 3.2    |  |  |
| A2.02 | Pump trips                                                                                      |         | 3.3  | 3.4                 | 3.3    | 3.4    |  |  |
| A2.03 | Valve closures                                                                                  |         | 2.9  | 3.2                 | 2.9    | 3.2    |  |  |
| A2.04 | Valve openings                                                                                  |         | 2.8  | 3.1                 | 2.8    | 3.1    |  |  |
| A2.05 | A.C. electrical failures                                                                        |         | 3.3  | 3.6                 | 3.3    | 3.6    |  |  |
| A2.06 | D.C. electrical failures                                                                        |         | 2.6* | 2.9*                | 2.6    | 2.9    |  |  |
| A2.07 | Emergency generator failure                                                                     |         | 3.5  | 3.8                 | 3.5    | 3.8    |  |  |
| A2.08 | Pump seal failure                                                                               |         | 2.8  | 3.2                 | 2.8    | 3.2    |  |  |
| A2.09 | Inadequate room cooling                                                                         |         | 2.8  | 3.0                 | 2.8    | 3.0    |  |  |
| A2.10 | Nuclear boiler instrument failures                                                              |         | 2.8  | 3.0                 | 2.8    | 3.0    |  |  |
| A2.11 | Motor operated valve failures                                                                   |         | 3.1  | 3.3                 | 3.1    | 3.3    |  |  |
| A2.12 | Valve logic failure                                                                             |         | 3.2  | 3.3                 | 3.2    | 3.3    |  |  |
| A2.13 | High suppression pool-level                                                                     |         | 2.9  | 3.2                 | 2.9    | 3.2    |  |  |
| A2.14 | Low (or negative) suppression pool pressure during system<br>operation                          |         | 3.2  | 3.5                 | 3.2    | 3.5    |  |  |
| A2.15 | Loss of coolant accident                                                                        |         | 4.0  | 4.1                 | 4.0    | 4.1    |  |  |
| A2.16 | Loss of, or inadequate, heat exchanger cooling flow                                             |         | 3.1  | 3.3                 | 3.1    | 3.3    |  |  |
| A3    | Ability to monitor automatic operations of the (41.7)<br>RHR/LPCI: TORUS/SUPPRESSION POOL SPRAY | / 45.7) |      |                     |        |        |  |  |
|       | MODE including:                                                                                 |         |      |                     |        |        |  |  |
| A3.01 | Valve operation                                                                                 |         | 3.4  | 3.3                 | 3.4    | 3.3    |  |  |

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|       | Facility: CPS                                                                   |      | Printed: 08/11/200 |     |                   |  |  |
|-------|---------------------------------------------------------------------------------|------|--------------------|-----|-------------------|--|--|
|       | System Number: 230000                                                           |      |                    |     |                   |  |  |
|       | System Name: RHR/LPC1: Torus/Suppression Pool Spray Mode                        |      | NRC Imp            |     | <u>Facility I</u> |  |  |
|       | CFR                                                                             | RO   | SRO                | RO  |                   |  |  |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) |      |                    |     |                   |  |  |
| A4.01 | Pumps                                                                           | 3.7* | 3.5                | 3.7 | 3.5               |  |  |
| A4.02 | Sprav valves                                                                    | 3.8  | 3.6                | 3.8 | 3.6               |  |  |
| A4.03 | Keep fill system                                                                | 3.1  | 3.0                | 3.1 | 3.0               |  |  |
| A4.04 | Minimum flow valves                                                             | 3.1  | 2.9                | 3.1 | 2.9               |  |  |
| A4.05 | Heat exchanger cooling flow                                                     | 3.2  | 3.1                | 3.2 | 3.1               |  |  |
| A4.06 | Valve logic reset following automatic initiation of LPCI/RHR in-                | 4.0  | 3.9                | 4.0 | 3.9               |  |  |
|       | injection mode                                                                  |      |                    |     |                   |  |  |
| A4.07 | System flow                                                                     | 3.6  | 3.4                | 3.6 | 3.4               |  |  |
| A4.08 | Pump/system discharge pressure                                                  | 3.0  | 2.9                | 3.0 | 2.9               |  |  |
| A4.09 | Indicating lights and alarms                                                    | 3.6  | 3.3                | 3.6 | 3.3               |  |  |
| A4.10 | Condensate storage tank level                                                   | 2.4* | 2.4                | 2.4 | 2.4               |  |  |
| A4.11 | System venting                                                                  | 2.5  | 2.4                | 2.5 | 2.4               |  |  |
| A4.12 | Suppression pool-level                                                          | 3.8  | 3.8                | 3.8 | 3.8               |  |  |
| A4.13 | Suppression chamber pressure                                                    | 4.0  | 3.9                | 4.0 | 3.9               |  |  |
| A4.14 | Suppression pool temperature                                                    | 3.8  | 3.8                | 3.8 | 3.8               |  |  |
| A4.15 | Drywell pressure                                                                | 3.9  | 4,0                | 3.9 | 4.0               |  |  |
| A4.16 | The override for suppression pool spray valve logic                             | 3.8  | 3.8                | 3.8 | 3.8               |  |  |

I

|              | Facility: CPS                                                                                                   |                                  |      | Printed: 08/11/2006 |                |       |  |  |
|--------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------|---------------------|----------------|-------|--|--|
|              | System Number: 233000                                                                                           |                                  |      |                     |                |       |  |  |
|              | System Name: Fuel Pool Cooling and Clean-up                                                                     |                                  | NRC  | imp                 | <u>Facilit</u> | y Imp |  |  |
| ~            |                                                                                                                 | CFR                              | RO   | SRO                 | RO             | SRO   |  |  |
| K1           | Knowledge of the physical connections and/or cause-<br>effect relationships between FUEL POOL COOLING           | (41.2 to 41.9 / 45.7 to<br>45.8) |      |                     |                |       |  |  |
| V1.01        | AND CLEAN-UP and the following:                                                                                 |                                  | 26   | 29                  | 26             | 29    |  |  |
| K1.01        | Basidual best removal system: Plant Specific                                                                    |                                  | 2.0  | 3.0                 | 2.0            | 3.0   |  |  |
| K1.02        | Condensate storage tenk                                                                                         |                                  | 2.2  | 23                  | 2.2            | 23    |  |  |
| K1.03        | Condensate storage tank                                                                                         |                                  | 2.5  | 2.5                 | 2.5            | 2.0   |  |  |
| K1.04        | Process sampling system                                                                                         |                                  | 2.0  | 2.0                 | 2.0            | 2.0   |  |  |
| K1.05        | A Conductivity and the second                                                                                   |                                  | 2.2  | 2.2                 | 2.2            | 2.2   |  |  |
| K1.00        | A.C. electrical power                                                                                           |                                  | 2.5  | 2.3                 | 2.5            | 2.5   |  |  |
| K1.07        | Condensate system. Franc-Specific                                                                               |                                  | 2.1  | 2.2                 | 2.1            | 2.2   |  |  |
| K1.08        | Compensate transfer                                                                                             |                                  | 2.5  | 2.5                 | 2.5            | 2.5   |  |  |
| K1.09        | Component cooling water systems                                                                                 |                                  | 2.0  | 2.0                 | 2.0            | 2.0   |  |  |
| K1.10        | Containment drainage system: Plant-Specific                                                                     |                                  | 2.2  | 2.5                 | 2.2            | 2.5   |  |  |
| K1.11        | Reactor building arainage system; Plant-Specific                                                                |                                  | 2.5  | 2.4                 | 2.5            | 2.7   |  |  |
| K1.12        | Radwaste system                                                                                                 |                                  | 2.5  | 2.0                 | 2.5            | 2.0   |  |  |
| KI.13        | Buy ter huilding ventilation                                                                                    |                                  | 2.5  | 2.0                 | 2.5            | 2.0   |  |  |
| K1.14        | Reactor building ventilation                                                                                    |                                  | 2.5  | 2.5                 | 2.0            | 2.9   |  |  |
| K1.15        | Storage pools                                                                                                   |                                  | 2.7  | 2.5                 | 2.7            | 2.7   |  |  |
| K1.10        | Emergency cooling water systems: Plant-Specific                                                                 |                                  | 2.7  | 2.0                 | 2.1            | 2.0   |  |  |
| K2           | Knowledge of electrical power supplies to the following                                                         | g: (41.7)                        |      |                     |                |       |  |  |
| 2.01         | Fuel pool cooling pumps                                                                                         |                                  | 2.1* | 2.2*                | 2.1            | 2.2   |  |  |
|              | RHR pumps                                                                                                       |                                  | 2.8* | 2.9*                | 2.8            | 2.9   |  |  |
| K3           | Knowledge of the effect that a loss or malfunction of the FUEL POOL COOLING AND CLEAN-UP will have a following. | ne (41.7 / 45.4)<br>on           |      |                     |                |       |  |  |
| <b>V2</b> 01 | Fuel nool temperature                                                                                           |                                  | 32   | 34                  | 3.2            | 3.4   |  |  |
| N 3.01       | Fuel nool water level                                                                                           |                                  | 31   | 3.2                 | 3.1            | 3.2   |  |  |
| K2 02        | Fuel pool water clarity                                                                                         |                                  | 26   | ) R                 | 2.6            | 28    |  |  |
| K3.03        | Fuel nool water chemistry                                                                                       |                                  | 2.0  | 2.0                 | 2.4            | 2.6   |  |  |
| K3.04        | Fuel pool water thesion product concentration                                                                   |                                  | 2.,  | 2.8                 | 2.6            | 2.8   |  |  |
| K3.03        | A real radiation levels                                                                                         |                                  | 2.0  | 3.2                 | 2.9            | 3.2   |  |  |
| K3.00        | Suppression pool chemistry: Plant-Specific                                                                      |                                  | 2.3  | 2.9                 | 2.3            | 2.9   |  |  |
| K3.07        | +Refueling operations                                                                                           |                                  | 2.9  | 3.5                 | 2.9            | 3.5   |  |  |
| ND.00        | Incruening operations                                                                                           |                                  |      |                     |                |       |  |  |

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|       | System Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 233000                                                                                                          |               |     |      |      |        |       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|-----|------|------|--------|-------|
|       | System Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fuel Pool Cooling and Clean-up                                                                                  |               |     | NRC  | lmp  | Facili | tv In |
|       | or of the real of | The second se |               | CFR | RO   | SRO  | RO     | S.    |
| K4    | Knowledge of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FUEL POOL COOLING AND CLEAN-UP                                                                                  | (41.7)        |     |      |      |        |       |
|       | design feature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (s) and/or interlocks which provide for the                                                                     |               |     |      |      |        |       |
|       | following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •                                                                                                               |               |     |      |      |        |       |
| K4.01 | Redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 |               |     | 2.4  | 2.6  | 2.4    | 2.6   |
| K4.02 | Pool clarity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |               |     | 2.4  | 2.6  | 2.4    | 2.6   |
| K4.03 | Maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of adequate pool temperature                                                                                    |               |     | 2.8  | 3.1  | 2.8    | 3.1   |
| K4.04 | Overpressure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | protection for fuel pool cooling system filter                                                                  |               |     | 2.0* | 2.1  | 2.0    | 2.1   |
| K4.05 | Net positive<br>cooling pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | suction head requirements for fuel pool                                                                         |               |     | 2.1* | 2.2* | 2.1    | 2.2   |
| K4.06 | Maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of adequate pool level                                                                                          |               |     | 2.9  | 3.2  | 2.9    | 3.2   |
| K4.07 | Supplementa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I heat removal capability                                                                                       |               |     | 2.7  | 2.9  | 2.7    | 2.9   |
| K4.08 | Pool cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | during loss of coolant accident: BWR-6                                                                          |               |     | 2.6* | 2.8  | 2.6    | 2.8   |
| K4.09 | Maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of filter/demineralizer precoat during low                                                                      |               |     | 2.1  | 2.4* | 2.1    | 2.4   |
|       | flow condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ons                                                                                                             |               |     |      |      |        |       |
| K5    | Knowledge of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | the operational implications of the                                                                             | (41.5 / 45.3) |     |      |      |        |       |
|       | following con<br>COOLING A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cepts as they apply to FUEL POOL<br>ND CLEAN-UP:                                                                |               |     |      |      |        |       |
| K5.01 | Heat remova                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | l mechanisms                                                                                                    |               |     | 2.5  | 2.7  | 2.5    | 2.7   |
| K5.02 | Pump cavitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | tion                                                                                                            |               |     | 2.1* | 2.2* | 2.1    | 2.2   |
| K5.03 | Spent fuel de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | cay heat generation                                                                                             |               |     | 2.6  | 2.8* | 2.6    | 2.8   |
| K5.04 | Demineralize                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | er ion exchange                                                                                                 |               |     | 2.0* | 2.2* | 2.0    | 2.2   |
| K5.05 | Mechanical f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | filtration operation                                                                                            |               |     | 2.1* | 2.2  | 2.1    | 2.2   |
| K5.06 | Maximum no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ormal heat load                                                                                                 |               |     | 2.5  | 2.7  | 2.5    | 2.7   |
| K5.07 | Maximum (a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | bnormal) heat 102d                                                                                              |               |     | 2.5  | 2.8  | 2.5    | 2.8   |
| K6    | Knowledge of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | the effect that a loss or malfunction of the                                                                    | (41.7 / 45.7) |     |      |      |        |       |
|       | following will<br>CLEAN-UP:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | have on the FUEL POOL COOLING AND                                                                               |               |     |      |      |        |       |
| K6.01 | A.C. electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | al power                                                                                                        |               |     | 2.5  | 2.7  | 2.5    | 2.7   |
| K6.02 | Shutdown co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ooling system: Plant-Specific                                                                                   |               |     | 2.2* | 2.5* | 2.2    | 2.5   |
| K6.03 | Residual hea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t removal: Plant-Specific                                                                                       |               |     | 2.3  | 2.7  | 2.3    | 2.7   |
| K6.04 | Condensate 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | transfer                                                                                                        |               |     | 2.5  | 2.6  | 2.5    | 2.6   |
| K6.05 | Condensate s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ystem                                                                                                           |               |     | 2.1* | 2.3  | 2.1    | 2.3   |
| K6.06 | Condensate s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | storage tanks                                                                                                   |               |     | 2.4  | 2.4  | 2.4    | 2.4   |
| K6.07 | Component of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | cooling water systems                                                                                           |               |     | 2.7  | 2.8  | 2.7    | 2.8   |
| K6.08 | Plant air syst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | rems                                                                                                            |               |     | 2.4  | 2.4  | 2.4    | 2.4   |
| K6.09 | Radwaste sy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | stem                                                                                                            |               |     | 2.2  | 2.4  | 2.2    | 2.4   |
| K6.10 | Reactor cavi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ty seal failure                                                                                                 |               |     | 2.9  | 3.3  | 2.9    | 3.3   |
| K6.11 | NSSSS/PCIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S: Plant-Specific                                                                                               |               |     | 2.3  | 2.6* | 2.3    | 2.6   |

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|        | Facility: CPS                                                                                                                                  |               |            | Printed: 08/11/2006 |               |             |  |  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|---------------------|---------------|-------------|--|--|
|        | System Number: 233000                                                                                                                          |               |            |                     |               |             |  |  |
|        | System Name: Fuel Pool Cooling and Clean-up                                                                                                    |               | <u>NRC</u> | Լաը                 | <u>Facili</u> | ty Imp      |  |  |
|        |                                                                                                                                                | CFR           | RO         | SRO                 | RO            | SRO         |  |  |
| A1     | Ability to predict and/or monitor changes in parameters<br>associated with operating the FUEL POOL COOLING<br>AND CLEAN-UP controls including: | (41.5 / 45.5) |            |                     |               |             |  |  |
| A1.01  | Surge tank level                                                                                                                               |               | 2.6        | 2.9                 | 2.6           | 2.9         |  |  |
| A1 02  | Pool level                                                                                                                                     |               | 2.9        | 3.1                 | 2.9           | 3.1         |  |  |
| A1 03  | Pool temperature                                                                                                                               |               | 3,1        | 3.3                 | 3.1           | 3.3         |  |  |
| A1 04  | Pump discharge pressure                                                                                                                        |               | 2.4        | 2.5                 | 2.4           | 2.5         |  |  |
| A105   | Filter/ demineralize differential pressure                                                                                                     |               | 2.4*       | 2.3*                | 2.4           | 2.3         |  |  |
| A1.06  | System flow                                                                                                                                    |               | 2.5        | 2.4                 | 2.5           | 2.4         |  |  |
| A1.00  | System temperature                                                                                                                             |               | 2.7        | 2.8                 | 2.7           | 2.8         |  |  |
| A1 08  | Pool chemistry                                                                                                                                 |               | 2.1*       | 2.4*                | 2.1           | 2.4         |  |  |
| A 1 00 | Pool clarity                                                                                                                                   |               | 2.4        | 2.6                 | 2.4           | 2.6         |  |  |
| A1.07  | Pool activity levels                                                                                                                           |               | 2.1        | 2.6*                | 24            | 2.6         |  |  |
| A1.10  | Suppression nool chemistry: BWR-6                                                                                                              |               | 2.1        | 2.0                 | 2.1           | 2.0         |  |  |
| A1.11  | Suppression poor enclinisity. B w K-0                                                                                                          |               | 2.1        | 2.7                 | 2             | <b>L</b> ., |  |  |
| A2     | Ability to (a) predict the impacts of the following on the FUEL POOL COOLING AND CLEAN-UP; and (b)                                             | (41.5 / 45.6) |            |                     |               |             |  |  |
|        | based on those predictions, use procedures to correct,<br>control, or mitigate the consequences of those abnormal                              |               |            |                     |               |             |  |  |
|        | conditions or operations:                                                                                                                      |               |            |                     |               |             |  |  |
| A2.01  | High pool level                                                                                                                                |               | 2.7        | 2.9                 | 2.7           | 2.9         |  |  |
| 2.02   | Low pool level                                                                                                                                 |               | 3.1        | 3.3                 | 3.1           | 3.3         |  |  |
| 2.03 س | Low surge tank level/high level                                                                                                                |               | 2.8        | 3.0                 | 2.8           | 3.0         |  |  |
| A2.04  | Pump trip                                                                                                                                      |               | 2.6        | 2.7                 | 2.6           | 2.7         |  |  |
| A2.05  | Valve closures                                                                                                                                 |               | 2.5        | 2.5                 | 2.5           | 2.5         |  |  |
| A2.06  | Valve openings                                                                                                                                 |               | 2.5        | 2.5                 | 2.5           | 2.5         |  |  |
| A2.07  | High fuel pool temperature                                                                                                                     |               | 3.0        | 3.2                 | 3.0           | 3.2         |  |  |
| A2.08  | Closed cooling water failure                                                                                                                   |               | 2.9        | 3.1                 | 2.9           | 3.1         |  |  |
| A2.09  | A.C. electrical power failures                                                                                                                 |               | 2.7        | 2.9                 | 2.7           | 2.9         |  |  |
| A2.10  | Refueling bellows seal high flow                                                                                                               |               | 2.9        | 3.3                 | 2.9           | 3.3         |  |  |
| A2.11  | Fuel pool gate seal high flow                                                                                                                  |               | 2.9        | 3.2                 | 2,9           | 3.2         |  |  |
| A2.12  | High filter/ demineralizer differential pressure                                                                                               |               | 2.4*       | 2.4                 | 2.4           | 2.4         |  |  |
| A2.13  | Low filter/ demineralizer differential pressure                                                                                                |               | 2.2*       | 2.2*                | 2.2           | 2.2         |  |  |
| A2.14  | Low system flow                                                                                                                                |               | 2.3        | 2.3                 | 2.3           | 2.3         |  |  |
| A2.15  | High system temperature                                                                                                                        |               | 2.8        | 2.9                 | 2.8           | 2.9         |  |  |
| A2.16  | Loss of coolant accident signal                                                                                                                |               | 2.5        | 2.8                 | 2.5           | 2.8         |  |  |
| A2.17  | Fuel transfer tube drain tank high level/low level: BWR-6                                                                                      |               | 2.0        | 2.8                 | 2.0           | 2.8         |  |  |
| A2.18  | Low pool clarity                                                                                                                               |               | 2.5        | 2.7                 | 2.5           | 2.7         |  |  |
| A2.19  | Inadequate system/pool chemistry                                                                                                               |               | 2.5        | 2.8                 | 2.5           | 2.8         |  |  |
| A3     | Ability to monitor automatic operations of the FUEL                                                                                            | (41.7 / 45.7) |            |                     |               |             |  |  |
| A3 01  | Valve operation                                                                                                                                |               | 2.4        | 2.5                 | 2.4           | 2.5         |  |  |
| A3.07  | Pump trin(s)                                                                                                                                   |               | 2.6        | 2.6                 | 2.6           | 2.6         |  |  |
| A3 03  | System indicating lights and alarms                                                                                                            |               | 2.6        | 2.6                 | 2.6           | 2.6         |  |  |
|        |                                                                                                                                                |               | -          |                     |               |             |  |  |

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|       | System Number:   | 233000                                     |                       |         |      |             |            |
|-------|------------------|--------------------------------------------|-----------------------|---------|------|-------------|------------|
|       | System Name:     | Fuel Pool Cooling and Clean-up             |                       | NRC Imp |      | Facility In |            |
|       |                  |                                            | CFR                   | RO      | SRO  | RO          | <b>S</b> . |
| A4    | Ability to manua | ally operate and/or monitor in the control | (41.7 / 45.5 to 45.8) |         |      |             |            |
|       | room:            |                                            |                       |         |      |             |            |
| A4.01 | System lights a  | nd alarms                                  |                       | 2.6     | 2.6  | 2.6         | 2.6        |
| A4.02 | System lineups   |                                            |                       | 2.3     | 2.5  | 2.3         | 2.5        |
| A4.03 | System flow      |                                            |                       | 2.2     | 2.4  | 2.2         | 2.4        |
| A4.04 | Pool level       |                                            |                       | 2.9*    | 3.1  | 2.9         | 3.1        |
| A4.05 | Pool temperatu   | re                                         |                       | 2.7*    | 3.1* | 2.7         | 3.1        |
| A4.06 | System tempera   | ature                                      |                       | 2.5*    | 2.6* | 2.5         | 2.6        |
| A4.07 | System pressur   | es                                         |                       | 2.2*    | 2.3* | 2.2         | 2.3        |
| A4.08 | System differer  | ntial pressures                            |                       | 2.2*    | 2.2* | 2.2         | 2.2        |
| A4.09 | Pump operation   | 1                                          |                       | 2.2*    | 2.2* | 2.2         | 2.2        |
| A4.10 | Tank levels      |                                            |                       | 2.5     | 2.6  | 2.5         | 2.6        |
| A4.11 | Closed cooling   | water temperature                          |                       | 2.5     | 2.5  | 2.5         | 2.5        |

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|               | Facility: CPS                                   |                                                                                       |                                  | Printed: 08/11/2006 |            |        |        |  |
|---------------|-------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|---------------------|------------|--------|--------|--|
|               | System Number:                                  | 234000                                                                                |                                  |                     |            |        |        |  |
|               | System Name:                                    | Fuel Handling Equipment                                                               |                                  | NRC                 | lmo        | Facili | ty Imp |  |
|               | <u></u>                                         |                                                                                       | CFR                              | RO                  | SRO        | RO     | SRO    |  |
| K1            | Knowledge of t<br>effect relations              | the physical connections and/or cause-<br>hips between FUEL HANDLING                  | (41.2 to 41.9 / 45.7 to<br>45.8) |                     |            |        |        |  |
| <b>K</b> 1 01 | tuel                                            | and the following:                                                                    |                                  | 3.2                 | 37         | 3.2    | 37     |  |
| K1.01         |                                                 | nonte                                                                                 |                                  | 20                  | 33         | 2.2    | 2.7    |  |
| K1.02         | Core compor                                     | nems                                                                                  |                                  | 2.9                 | 5.5<br>7 0 | 2.9    | 2.9    |  |
| K1.03         | Spent fuel cas                                  | ik<br>                                                                                |                                  | 2.7                 | 2.7        | 2.7    | 2.9    |  |
| N 1.04        | TReactor man                                    | ual control system. Flant-Specific                                                    |                                  | 2.5                 | 2.0        | 2.5    | 2.2    |  |
| K1.05         | Reactor vesse                                   | components: Plant-Specific                                                            |                                  | 2.9                 | 3.3        | 2.9    | 3.5    |  |
| K1.06         | RC & IS: Plan                                   | nt-Specific                                                                           |                                  | 3.0                 | 3.2        | 3.0    | 3.2    |  |
| K1.07         | Fuel transfer t                                 | ube system: Mark-III                                                                  |                                  | 3.0                 | 3.4        | 3.0    | 3.4    |  |
| K1.08         | Fuel pools co                                   | ntiguration: Mark-III                                                                 |                                  | 2.7                 | 3.0        | 2.7    | 3.0    |  |
| K1.09         | Fuel pool ven                                   | tilation: Plant-Specific                                                              |                                  | 2.8                 | 2.9        | 2.8    | 2.9    |  |
| K3            | Кпоwledge of<br>FUEL HANDI                      | the effect that a loss or malfunction of the<br>LING EQUIPMENT will have on following | (41.7 / 45.4)<br>:               |                     |            |        |        |  |
| K3.01         | †Reactor man                                    | ual control system: Plant-Specific                                                    |                                  | 2.9                 | 3.3        | 2.9    | 3.3    |  |
| K3.02         | RC & IS: Plat                                   | nt-Specific                                                                           |                                  | 3.0                 | 3.0        | 3.0    | 3.0    |  |
| K3.03         | †Fuel handlin                                   | g operations                                                                          |                                  | 3.1                 | 3.8        | 3.1    | 3.8    |  |
| K3.04         | †core modific                                   | ations/alterations                                                                    |                                  | 2.9                 | 3.8        | 2.9    | 3.8    |  |
| ···4          | Knowledge of f<br>feature(s) and/<br>following: | FUEL HANDLING EQUIPMENT design<br>for interlocks which provide for the                | (41.7)                           |                     |            |        |        |  |
| K4.01         | †Prevention o<br>movements                      | of core alterations during control rod                                                |                                  | 3.3                 | 4.1        | 3.3    | 4.1    |  |
| K4.02         | †Prevention c<br>alterations                    | of control rod movement during core                                                   |                                  | 3.3                 | 4.1        | 3.3    | 4.1    |  |
| <b>K</b> 4.03 | †Protection as components of                    | gainst inadvertently lifting radioactive<br>out of the water                          |                                  | 3.4                 | 4.2        | 3.4    | 4.2    |  |
| K4.04         | †Movement o<br>areas: Plant-S                   | of the spent fuel cask only over designated pecific                                   |                                  | 2.8                 | 3.3        | 2.8    | 3,3    |  |
| K4.05         | †Movement o                                     | of fuel via fuel transfer tube: Mark-III                                              |                                  | 3.0                 | 3.8        | 3.0    | 3.8    |  |
| K5            | Knowledge of<br>following conc<br>EQUIPMENT     | the operational implications of the<br>epts as they apply to FUEL HANDLING<br>:       | (41.5 / 45.3)                    |                     |            |        |        |  |
| K5.01         | †Crane/hoist                                    | operation                                                                             |                                  | 2.9                 | 3.4        | 2.9    | 3.4    |  |
| K5.02         | <b>†</b> Fuel handlin                           | g equipment interlocks                                                                |                                  | 3.1                 | 3.7        | 3.1    | 3.7    |  |
| K5.03         | †Water as a s                                   | hield against radiation                                                               |                                  | 2.9                 | 3.4        | 2.9    | 3.4    |  |
| K5.04         | Spent fuel po                                   | ol design                                                                             |                                  | 2.6                 | 3.1        | 2.6    | 3.1    |  |
| K5.05         | +Fuel orienta                                   | tion                                                                                  |                                  | 3.0                 | 3.7        | 3.0    | 3.7    |  |

| System Name:         Fuel Handling Equipment         CFR         NRC 1mp         Pacific 1mp           K6         Knowledge of the effect that a loss or malfunction of the (41.7 / 45.7) following will have on the FUEL HANDLING EQUIPMENT         Vertical power         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.8         3.5           K6.01         Telectrical power         2.9         3.4         2.9         3.7         2.9         3.7         2.9         3.7         2.9         3.7         2.9         3.7         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.8         3.3         3.8                                                                                                                                                                                                                                               |       | System Number:                                                                      | 234000                                                                                                                                                                     |                       |     |            |               |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|------------|---------------|-------|
| CFR         RO         SRO         RO         SRO         Si           K6         Knowledge of the effect that a loss or malfunction of the<br>following will have on the FUEL HANDLING<br>EQUIPMENT         (41.7 / 45.7)         5         5         5           K6.01         Telectrical power         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.7         3.2         2.3         3.2         3.3         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.6         3.0         3.8         3.3                                                                                                                                                                                                                                                                      |       | System Name:                                                                        | Fuel Handling Equipment                                                                                                                                                    |                       | NRC | <u>Imp</u> | <u>Facili</u> | ty Im |
| K6       Knowledge of the effect that a loss or malfanction of the (41.7 / 45.7) following will have on the FUEL HANDLING EQUIPMENT         K6.01       †Electrical power       2.7       3.2       2.7       3.2         K6.02       Reactor manual control system: Plant-Specific       2.8       3.5       2.8       3.5         K6.03       RC & 1S: Plant-Specific       2.9       3.7       2.9       3.7         K6.04       †Refueling platform air system: Plant-Specific       2.9       3.7       2.9       3.7         K6.05       Upper fuel pool water inventory: Mark-III       3.0       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.6       3.7       3.3       3.8       3                                                                                                                                                                                                                                                                                                        |       |                                                                                     |                                                                                                                                                                            | CFR                   | RO  | SRO        | RO            | Sì    |
| K6.01       †Electrical power       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.7       3.2       2.8       3.5         K6.02       Reactor manual control system: Plant-Specific       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.7       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       2.9       3.4       3.9       3.4       2.9       3.4       3.9       3.4       3.9       3.3       3.8       3.3       3.8       3.3       3.8       3.3       3.8       3.3       3.8       3.3       3.8       3.3       3.8       3.3       3.8       3.1       3.6       3.1 <t< td=""><td>K6</td><td>Knowledge of<br/>following will l<br/>EOUIPMENT</td><td>the effect that a loss or malfunction of the have on the FUEL HANDLING</td><td>(41.7 / 45.7)</td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                             | K6    | Knowledge of<br>following will l<br>EOUIPMENT                                       | the effect that a loss or malfunction of the have on the FUEL HANDLING                                                                                                     | (41.7 / 45.7)         |     |            |               |       |
| K6.02       Reactor manual control system: Plant-Specific       28       3.5       2.8       3.5         K6.03       RC & IS: Plant-Specific       3.0       3.6       3.0       3.6       3.0       3.6         K6.04       † Refueling platform air system: Plant-Specific       2.9       3.7       2.9       3.7         K6.05       Upper fuel pool water inventory: Mark-III       3.2       3.3       3.2       3.3         K6.06       Fuel transfer tube interlocks: Mark-III       3.0       3.6       3.0       3.6         K6.07       †Fuel pool ventilation: Plant-Specific       2.9       3.4       2.9       3.4         A1       Ability to predict and/or monitor chauges in parameters       (41.5 / 45.5)       associated with operating the FUEL HANDLING         EQUIPMENT controls including:       3.1       3.4       3.1       3.4         A1.02       †Refuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       †core reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the (41.5 / 45.6)       FUEL HANDLING EQUIPMENT; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations?                                                                                                                                                                     | K6.01 | †Electrical po                                                                      | wer                                                                                                                                                                        |                       | 2.7 | 3.2        | 2.7           | 3.2   |
| K6.03       RC & IS: Plant-Specific       3.0       3.6       3.0       3.6         K6.04       †Refueling platform air system: Plant-Specific       2.9       3.7       2.9       3.7         K6.05       Upper fuel pool water inventory: Mark-III       3.0       3.6       3.0       3.6         K6.06       Fuel transfer tube interlocks: Mark-III       3.0       3.6       3.0       3.6         K6.07       †Fuel pool ventilation: Plant-Specific       2.9       3.4       2.9       3.4         A1       Ability to predict and/or monitor changes in parameters associated with operating the FUEL HANDLING       2.9       3.4       3.9         A1.01       Spent fuel pool level       3.1       3.4       3.1       3.4         A1.02       †Refuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       †core reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the (41.5 / 45.6)       FUEL HANDLING EQUIPMENT; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       3.1       3.6       3.1       3.6         A2.01       Thinerlock failure       3.3       3.7                                                                                                                                                                                        | K6.02 | Reactor manu                                                                        | al control system: Plant-Specific                                                                                                                                          |                       | 2.8 | 3.5        | 2.8           | 3.5   |
| K6.04       †Refueling platform air system: Plant-Specific       2.9       3.7       2.9       3.7         K6.05       Upper fuel pool water inventory: Mark-III       3.2       3.3       3.2       3.3         K6.06       Fuel transfer tube interlocks: Mark-III       3.0       3.6       3.0       3.6         K6.07       †Fuel pool ventilation: Plant-Specific       2.9       3.4       2.9       3.4         A1       Ability to predict and/or monitor chauges in parameters       (41.5 / 45.5)       associated with operating the FUEL HANDLING         EQUIPMENT controls including:       3.1       3.4       3.1       3.4       3.1         A1.01       Spent fuel pool level       3.1       3.4       3.1       3.4         A1.02       †Refuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       tcore reactivity level       3.4       3.9       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the (41.5 / 45.6)       fuel the consequences of those abnormal conditions or operations:       3.1       3.6       3.1       3.6         A2.01       †Interlock failure       3.1       3.6       3.1       3.6       3.1       3.6                                                                                                                                                                                                                                    | K6.03 | RC & IS: Plan                                                                       | nt-Specific                                                                                                                                                                |                       | 3.0 | 3.6        | 3.0           | 3.6   |
| K6.05       Upper fuel pool water inventory: Mark-III       3.2       3.3       3.2       3.3         K6.06       Fuel transfer tube interlocks: Mark-III       3.0       3.6       3.0       3.6         K6.07       tFuel pool ventilation: Plant-Specific       2.9       3.4       2.9       3.4         A1       Ability to predict and/or monitor chauges in parameters<br>associated with operating the FUEL HANDLING<br>EQUIPMENT controls including:       (41.5 / 45.5)         A1.01       Spent fuel pool level       3.1       3.4       3.1       3.4         A1.02       tRefuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       tcore reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:       3.3       3.7       3.3       3.7         A2.01       tInterlock failure       3.1       3.6       3.1       3.6       3.1       3.6         A2.02       tInterlock failure       3.1       3.6       3.1       3.6       3.1       3.6         A2.02       tInterlock failure       3.1       3.6       3.1       3                                                                                                                                                                                          | K6.04 | †Refueling pl                                                                       | atform air system: Plant-Specific                                                                                                                                          |                       | 2.9 | 3.7        | 2.9           | 3.7   |
| K6.06Fuel transfer tube interlocks: Mark-III3.03.63.03.63.03.6K6.07†Fuel pool ventilation: Plant-Specific2.93.42.93.4A1Ability to predict and/or monitor changes in parameters<br>associated with operating the FUEL HANDLING<br>EQUIPMENT controls including:(41.5/45.5)A1.01Spent fuel pool level3.13.43.1A1.02†Refuel floor radiation levels/ airborne levels3.33.83.3A1.03†core reactivity level3.43.93.43.9A2Ability to (a) predict the impacts of the following on the<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.73.33.7A2.01†Interlock failure3.13.63.13.63.13.6A2.03†Loss of refueling platform air system3.13.63.13.6A2.03theose predictiologe movement: Plant-Specific2.63.62.63.6A3.02†Interlock failure3.13.73.13.7A3Ability to monitor automatic operations of the FUEL(41.7/45.7)1.13.73.1A3.01†Crane/refuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.73.93.73.9A4Ability to manually operate and/or monitor in the control(41.7/45.5 to 45.8)<br>room:3.73.93.7                                                                                                                                                                                                                                                                                                                                                                                     | K6.05 | Upper fuel po                                                                       | ol water inventory: Mark-III                                                                                                                                               |                       | 3.2 | 3.3        | 3.2           | 3.3   |
| K6.07tFuel pool ventilation: Plant-Specific2.93.42.93.4A1Ability to predict and/or monitor changes in parameters<br>associated with operating the FUEL HANDLING<br>EQUIPMENT controls including:(41.5 / 45.5)A1.01Spent fuel pool level3.13.43.1A1.02†Refuel floor radiation levels/ airborne levels3.33.83.3A1.03tcore reactivity level3.43.93.43.9A2Ability to (a) predict the impacts of the following on the<br>received icons, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.73.33.7A2.01†Interlock failure3.13.63.13.63.13.6A2.02tLoss of refueling platform air system3.13.63.13.63.1A2.03tLoss of electrical power2.83.12.83.1A3Ability to monitor automatic operations of the FUEL<br>HANDLING EQUIPMENT including:(41.7 / 45.7)4.3.13.6A3.01tCrane/efuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)<br>room:3.73.93.73.9A4.01†Neutron monitoring system3.43.73.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                 | K6.06 | Fuel transfer t                                                                     | ube interlocks: Mark-III                                                                                                                                                   |                       | 3.0 | 3.6        | 3.0           | 3.6   |
| A1       Ability to predict and/or monitor chauges in parameters associated with operating the FUEL HANDLING EQUIPMENT controls including:       3.1       3.4       3.1       3.4         A1.01       Spent fuel pool level       3.1       3.4       3.1       3.4         A1.02       TRefuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       tcore reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the fuels/ airborne levels       (41.5 / 45.6)       FUEL HANDLING EQUIPMENT; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:         A2.01       Threfore fueling platform air system       3.1       3.6       3.1       3.6         A2.02       fLoss of refueling platform air system       3.1       3.6       3.1       3.6         A2.03       tLoss of clectrical power       2.8       3.1       2.8       3.1         A3       Ability to monitor automatic operations of the FUEL (41.7 / 45.7)       4.3.7       3.1       3.7         A3.01       tCrane/refuel bridge movement: Plant-Specific       2.6       3.6       2.6       3.6         A3.02       Thretrock operation       3.1 <td< td=""><td>K6.07</td><td><b>†</b>Fuel pool ve</td><td>ntilation: Plant-Specific</td><td></td><td>2.9</td><td>3.4</td><td>2.9</td><td>3.4</td></td<> | K6.07 | <b>†</b> Fuel pool ve                                                               | ntilation: Plant-Specific                                                                                                                                                  |                       | 2.9 | 3.4        | 2.9           | 3.4   |
| A1.01       Spent fuel pool level       3.1       3.4       3.1       3.4         A1.02       †Refuel floor radiation levels/ airborne levels       3.3       3.8       3.3       3.8         A1.03       †core reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the<br>FUEL HANDLING EQUIPMENT; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:       3.3       3.7       3.3       3.7         A2.01       †Interlock failure       3.3       3.7       3.3       3.7       3.3       3.7         A2.02       †Loss of refueling platform air system       3.1       3.6       3.1       3.6       3.1       3.6         A2.03       †Loss of electrical power       2.8       3.1       2.8       3.1       2.8       3.1         A3.01       †Crane/refuel bridge movement: Plant-Specific       2.6       3.6       2.6       3.6         A3.02       †Interlock operation       3.1       3.7       3.1       3.7       3.1       3.7         A4       Ability to manually operate and/or monitor in the control       (41.7 / 45.5 to 45.8)       3.7       3.9       3.7       3.9                                                                                                                                                                                                                        | A1    | Ability to pred<br>associated with<br>EQUIPMENT                                     | ict and/or monitor changes in parameters<br>operating the FUEL HANDLING<br>controls including:                                                                             | (41.5 / 45.5)         |     |            |               |       |
| A1.02†Refuel floor radiation levels/ airborne levels3.33.83.33.83.33.8A1.03†core reactivity level3.43.93.43.93.43.9A2Ability to (a) predict the impacts of the following on the<br>FUEL HANDLING EQUIPMENT; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.73.33.73.33.7A2.01†Interlock failure3.33.73.33.73.33.73.33.7A2.02†Loss of refueling platform air system3.13.63.13.63.13.6A2.03†Loss of electrical power2.83.12.83.13.6A3.01†Crane/refuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control(41.7 / 45.5 to 45.8)<br>room:3.73.93.73.9A4.01†Neutron monitoring system3.73.93.73.93.73.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1.01 | Spent fuel poo                                                                      | b) level                                                                                                                                                                   |                       | 3.1 | 3.4        | 3.1           | 3.4   |
| A1.03       †core reactivity level       3.4       3.9       3.4       3.9         A2       Ability to (a) predict the impacts of the following on the FUEL HANDLING EQUIPMENT; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       3.3       3.7       3.3       3.7         A2.01       †Interlock failure       3.3       3.7       3.3       3.7       3.3       3.7         A2.02       †Loss of refueling platform air system       3.1       3.6       3.1       3.6         A2.03       †Loss of electrical power       2.8       3.1       2.8       3.1         A3       Ability to monitor automatic operations of the FUEL       (41.7 / 45.7)       HANDLING EQUIPMENT including:         A3.01       †Crane/refuel bridge movement: Plant-Specific       2.6       3.6       2.6       3.6         A3.02       †Interlock operation       3.1       3.7       3.1       3.7         A4       Ability to manually operate and/or monitor in the control       (41.7 / 45.5 to 45.8)          room:       3.7       3.9       3.7       3.9       3.7       3.9         A4.01       †Neutron monitoring system       3.7       3.9       3.7       3.9         A4.0                                                                                                                                                                                                                          | A1.02 | †Refuel floor                                                                       | radiation levels/ airborne levels                                                                                                                                          |                       | 3.3 | 3.8        | 3.3           | 3.8   |
| A2       Ability to (a) predict the impacts of the following on the<br>FUEL HANDLING EQUIPMENT; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:       3.3       3.7       3.3       3.7         A2.01       †Interlock failure       3.3       3.7       3.3       3.7         A2.02       †Loss of refueling platform air system       3.1       3.6       3.1       3.6         A2.03       †Loss of electrical power       2.8       3.1       2.8       3.1         A3       Ability to monitor automatic operations of the FUEL       (41.7 / 45.7)       HANDLING EQUIPMENT including:         A3.01       †Crane/refuel bridge movement: Plant-Specific       2.6       3.6       2.6       3.6         A3.02       †Interlock operation       3.1       3.7       3.1       3.7         A4       Ability to manually operate and/or monitor in the control       (41.7 / 45.5 to 45.8)<br>room:       3.7       3.9       3.7       3.9         A4.01       †Neutron monitoring system       3.7       3.9       3.7       3.9         A4.02       Control rod drive system       3.4       3.7       3.4       3.7                                                                                                                                                                                                                                                                       | A1.03 | †core reactivi                                                                      | ty level                                                                                                                                                                   |                       | 3.4 | 3.9        | 3.4           | 3.9   |
| A2.01†Interlock failure3.33.73.33.7A2.02†Loss of refueling platform air system3.13.63.13.6A2.03†Loss of electrical power2.83.12.83.1A3Ability to monitor automatic operations of the FUEL(41.7 / 45.7)4.83.13.6A3.01†Crane/refuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control(41.7 / 45.5 to 45.8)3.73.9room:3.73.93.73.9A4.01†Neutron monitoring system3.73.93.73.9A4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A2    | Ability to (a) p<br>FUEL HANDL<br>those predictio<br>mitigate the co<br>operations: | redict the impacts of the following on the<br>LING EQUIPMENT; and (b) based on<br>ns, use procedures to correct, control, or<br>nsequences of those abnormal conditions or | (41.5 / 45.6)         |     |            |               |       |
| A2.02†Loss of refueling platform air system3.13.63.13.6A2.03†Loss of electrical power2.83.12.83.1A3Ability to monitor automatic operations of the FUEL<br>HANDLING EQUIPMENT including:(41.7 / 45.7)A3.01†Crane/refuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)3.73.9A4.01†Neutron monitoring system3.73.93.73.9A4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A2.01 | †Interlock fail                                                                     | lure                                                                                                                                                                       |                       | 3.3 | 3.7        | 3.3           | 3.7   |
| A2.03†Loss of electrical power2.83.12.83.1A3Ability to monitor automatic operations of the FUEL<br>HANDLING EQUIPMENT including:<br>A3.01<br>tCrane/refuel bridge movement: Plant-Specific<br>A3.02(41.7 / 45.7)<br>2.62.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.01<br>Control rod drive system3.73.93.73.9A4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A2.02 | tLoss of refue                                                                      | eling platform air system                                                                                                                                                  |                       | 3.1 | 3.6        | 3.1           | 3.6   |
| A3       Ability to monitor automatic operations of the FUEL (41.7 / 45.7)         HANDLING EQUIPMENT including:       (41.7 / 45.7)         A3.01       †Crane/refuel bridge movement: Plant-Specific       2.6       3.6       2.6       3.6         A3.02       †Interlock operation       3.1       3.7       3.1       3.7         A4       Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A2.03 | †Loss of elect                                                                      | rical power                                                                                                                                                                |                       | 2.8 | 3.1        | 2.8           | 3.1   |
| A3.01†Crane/refuel bridge movement: Plant-Specific2.63.62.63.6A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control(41.7 / 45.5 to 45.8)3.73.9A4.01†Neutron monitoring system3.73.93.73.9A4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A3    | Ability to mon<br>HANDLING E                                                        | itor automatic operations of the FUEL<br>QUIPMENT including:                                                                                                               | (41.7 / 45.7)         |     |            |               |       |
| A3.02†Interlock operation3.13.73.13.7A4Ability to manually operate and/or monitor in the control(41.7 / 45.5 to 45.8)3.73.9A4.01†Neutron monitoring system3.73.93.73.9A4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A3.01 | †Crane/refuel                                                                       | bridge movement: Plant-Specific                                                                                                                                            |                       | 2.6 | 3.6        | 2.6           | 3.6   |
| A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)room:A4.01*Neutron monitoring systemA4.02Control rod drive system3.43.73.43.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A3.02 | †Interlock ope                                                                      | eration                                                                                                                                                                    |                       | 3.1 | 3.7        | 3.1           | 3.7   |
| A4.01       †Neutron monitoring system       3.7       3.9       3.7       3.9         A4.02       Control rod drive system       3.4       3.7       3.4       3.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A4    | Ability to man<br>room:                                                             | ually operate and/or monitor in the control                                                                                                                                | (41.7 / 45.5 to 45.8) |     |            |               |       |
| A4.02 Control rod drive system 3.4 3.7 3.4 3.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A4.01 | †Neutron mor                                                                        | nitoring system                                                                                                                                                            |                       | 3.7 | 3.9        | 3.7           | 3.9   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A4.02 | Control rod di                                                                      | rive system                                                                                                                                                                |                       | 3.4 | 3.7        | 3.4           | 3.7   |

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K1.01

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K1.07 K1.08

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K1.12

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K1.14

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K1.25

K1.26

K1.27

1.20

Isolation condenser system: Plant-Specific

Reactor water level control system

Reactor protection system

Feedwater system

Head vent

**Relief valves** 

Safety valves

|                                | KA Catalog                                                                 | ļ,                               |      |        |               |        |
|--------------------------------|----------------------------------------------------------------------------|----------------------------------|------|--------|---------------|--------|
| Facility: C                    | PS                                                                         |                                  |      | Printe | ed: 08/1      | 1/2006 |
| <u>System Number:</u>          | 239001                                                                     |                                  |      |        |               |        |
| <u>System Name:</u>            | Main and Reheat Steam System                                               |                                  | NRC  | Imp    | <u>Facili</u> | ty Imp |
|                                |                                                                            | CFR                              | RO   | SRO    | RO            | SRO    |
| Knowledge o<br>effect relation | f the physical connections and/or cause-<br>nships between MAIN AND REHEAT | (41.2 to 41.9 / 45.7 to<br>45.8) |      |        |               |        |
| Banctor Ves                    | s I Elvi and the jollowing:                                                |                                  | 34   | 34     | 34            | 34     |
|                                | /CRIDS/GDS: Plant-Specific                                                 |                                  | 2.6  | 2.8    | 2.6           | 2.8    |
| Main turbin                    | e                                                                          |                                  | 3.4  | 3.4    | 3.4           | 3.4    |
| Moisture se                    | narators                                                                   |                                  | 2.8  | 2.9    | 2.8           | 2.9    |
| Moisture se                    | parator reheaters: Plant-Specific                                          |                                  | 2.8  | 2.8    | 2.8           | 2.8    |
| Steam bypa                     | ss system                                                                  |                                  | 3.4  | 3.4    | 3.4           | 3.4    |
| Offgas syste                   | em                                                                         |                                  | 3.1  | 3.0    | 3.1           | 3.0    |
| Condenser a                    | air removal system                                                         |                                  | 2.9  | 3.1    | 2.9           | 3.1    |
| Steam seal/g                   | gland seal system                                                          |                                  | 2.7  | 2.8    | 2.7           | 2.8    |
| Extraction s                   | team system                                                                |                                  | 2.7  | 2.8    | 2.7           | 2.8    |
| High pressu                    | re heater drains and vents                                                 |                                  | 2.5  | 2.5    | 2.5           | 2.5    |
| Plant air sys                  | stems                                                                      |                                  | 2.5  | 2.6    | 2.5           | 2.6    |
| Main steam                     | isolation valve leakage control: Plant-Specific                            | :                                | 2.6  | 2.8    | 2.6           | 2.8    |
| Positive leal                  | kage control system: Plant Specific                                        |                                  | 2.8  | 3.1    | 2.8           | 3.1    |
| Process con                    | nputer/ performance monitor system                                         |                                  | 2.1* | 2.1    | 2.1           | 2.1    |
| Process radi                   | ation monitoring system                                                    |                                  | 3.2  | 3.4    | 3.2           | 3.4    |
| Containmen                     | nt system                                                                  |                                  | 3.1  | 3.2    | 3.1           | 3.2    |
| High-pressur                   | e coolant injection: Plant-Specific                                        |                                  | 3.5  | 3.6    | 3.5           | 3.6    |
| Reactor core                   | e isolation cooling system: Plant-Specific                                 |                                  | 3.1  | 3.2    | 3.1           | 3.2    |
| Residual he                    | at removal system: Plant-Specific                                          |                                  | 2.9  | 2.9    | 2.9           | 2.9    |

| K2    | Knowledge of electrical power supplies to the following: | (41.7) |      |      |     |     |
|-------|----------------------------------------------------------|--------|------|------|-----|-----|
| K2.01 | Main steam isolation valve solenoids                     |        | 3.2* | 3.3* | 3.2 | 3.3 |
| K2.02 | Main steam line shutoff valves (guard valves):           |        | 2.3* | 2.3* | 2.3 | 2.3 |
|       | Plant-Specific                                           |        |      |      |     |     |

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4.0

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3.5

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4.1

Facility: CPS

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| Printed: | 08/1 | 1/2006 |
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|                | <u>System Number:</u>                        | 239001                                                                           |               |     |     |     |        |       |
|----------------|----------------------------------------------|----------------------------------------------------------------------------------|---------------|-----|-----|-----|--------|-------|
|                | System Name:                                 | Main and Reheat Steam System                                                     |               |     | NRC | Imp | Facili | ty lr |
|                | <u></u>                                      |                                                                                  |               | CFR | RO  | SRO | RO     | i.    |
| K3             | Knowledge of<br>MAIN AND R<br>following:     | the effect that a loss or malfunction of the<br>REHEAT STEAM SYSTEM will have on | (41.7 / 45.4) |     |     |     |        |       |
| K3 01          | Turbine gene                                 | rator                                                                            |               |     | 3.2 | 3.3 | 3.2    | 3.3   |
| K3.02          | Condenser                                    | ,                                                                                |               |     | 3.1 | 3.2 | 3.1    | 3.2   |
| K3.02          | Reactor feed                                 | numn turbines: Plant-Specific                                                    |               |     | 3.2 | 3.3 | 3.2    | 3.3   |
| K3 04          | Official system                              | n                                                                                |               |     | 2.8 | 2.8 | 2.8    | 2.8   |
| K3.04          | Condenser ai                                 | r removal                                                                        |               |     | 2.8 | 2.9 | 2.8    | 2.9   |
| K3.05          | Seal steam/ol                                | and and seal system                                                              |               |     | 2.6 | 2.7 | 2.6    | 2.7   |
| K3.00          | Containment                                  | and the sear system                                                              |               |     | 3.1 | 3.3 | 3.1    | 3.3   |
| K3.08          | Decay heat re                                | emoval                                                                           |               |     | 3.4 | 3.5 | 3.4    | 3.5   |
| K3.00          | Steam hypas                                  | s capability                                                                     |               |     | 3.6 | 3.7 | 3.6    | 3.7   |
| K3 10          | High procure                                 | coolant injection system: Plant-Specific                                         |               |     | 3.5 | 3.5 | 3.5    | 3.5   |
| K3 11          | Reactor core                                 | isolation cooling system: Plant-Specific                                         |               |     | 3.2 | 3.3 | 3.2    | 3.3   |
| K3 12          | Isolation cond                               | lenser: Plant Specific                                                           |               |     | 3.7 | 3.7 | 3.7    | 3.7   |
| K3 13          | Moisture sen                                 | arator reheaters: Plant-Specific                                                 |               |     | 2.4 | 2.4 | 2.4    | 2.4   |
| K3.15<br>K3.14 | Recidual heat                                | removal system: Plant-Specific                                                   |               |     | 2.7 | 2.7 | 2.7    | 2.7   |
| K3.15          | Reactor wate                                 | r level control                                                                  |               |     | 3.5 | 3.5 | 3.5    | 3.5   |
| K3.16          | Relief/safety                                | valves                                                                           |               |     | 3.6 | 3.6 | 3.6    | 3.6   |
| K3.17          | Reactor vess                                 | el and internals                                                                 |               |     | 3.2 | 3.3 | 3.2    | 3.3   |
| K4             | Knowledge of<br>design feature<br>following: | MAIN AND REHEAT STEAM SYSTEM<br>(s) and/or interlocks which provide for the      | (41.7)        |     |     |     |        | •.    |
| K4.01          | Automatic is                                 | olation of steam lines                                                           |               |     | 3.8 | 3.8 | 3.8    | 3.8   |
| K4.02          | Automatic is<br>Plant-Specifi                | olation and opening of drain valves:<br>c                                        |               |     | 3.1 | 3.2 | 3.1    | 3.2   |
| K4.03          | Insures that s<br>bypass suppr               | team released from a steam line break will not ession pool; BWR- $\epsilon$      |               |     | 3.2 | 3.3 | 3.2    | 3.3   |
| K4.04          | Limits steam                                 | flow during a steam line rupture to 200%                                         |               |     | 3.4 | 3.5 | 3.4    | 3.5   |
| K4.05          | Steam flow r                                 | neasurement                                                                      |               |     | 3.1 | 3.2 | 3.1    | 3.2   |
| K4.06          | Allows for re<br>from systems                | emoval or prevents escape of radioactive steam<br>s that have leaky MSIV's       |               |     | 3.1 | 3.2 | 3.1    | 3.2   |
| K4.07          | Over pressur                                 | e control                                                                        |               |     | 3.7 | 3.7 | 3.7    | 3.7   |
| K4.08          | Removal of r                                 | oon condensable gases from reactor head area                                     |               |     | 2.5 | 2.6 | 2.5    | 2.6   |
| K4.09          | Equalization                                 | of pressure across the MSIV's before opening                                     |               |     | 3.3 | 3.3 | 3.3    | 3.3   |
| K4.10          | Moisture ren<br>steam                        | noval from steam lines prior to admitting                                        |               |     | 2.9 | 3.0 | 2.9    | 3.0   |
| K4.11          | Positive seal:<br>Plant-Specifi              | ing of the MSIV's when shutdown:                                                 |               |     | 2.9 | 3.1 | 2.9    | 3.1   |

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|               | Facility: CPS                                                                                                                                |               |             | Printe     | d: 08/1       | 1/2006  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|------------|---------------|---------|
|               | System Number: 239001                                                                                                                        |               |             |            |               |         |
|               | System Name: Main and Reheat Steam System                                                                                                    |               | NRC         | <u>Imp</u> | <u>Facili</u> | ty Jmp  |
| $\sim$        |                                                                                                                                              | CFR           | RO          | SRO        | RO            | SRO     |
| К5            | Knowledge of the operational implications of the following concepts as they apply to MAIN AND REHEAT                                         | (41.5 / 45.3) |             |            |               |         |
| 11.5          | STEAM SYSTEM:                                                                                                                                |               | <b>ን</b> 0* | 2.2*       | 20            | <u></u> |
| K5.01         | Constant enthalpy expansion through a valve                                                                                                  |               | 2.0         | 2.2        | 2.0           | 2.2     |
| K5.02         | Definition and causes of steam/water nammer                                                                                                  |               | 2.9         | 2.1        | 2.9           | 2.1     |
| K5.03         | Definition and causes of thermal stress                                                                                                      |               | ∠./<br>1.0≭ | 2.9        | 2.7           | 2.9     |
| K5.04         | Definition and reason for steam blanketing of moisture separator reheater: Plant-Specific                                                    |               | 1.8*        | 1.9-       | 1.8           | 1.9     |
| K5.05         | Flow indication                                                                                                                              |               | 2.8         | 2.8        | 2.8           | 2.8     |
| K5.06         | Air operated MSIV's                                                                                                                          |               | 2.8         | 2.9        | 2.8           | 2.9     |
| K5.07         | Hydraulic operated MSIV's                                                                                                                    |               | 2.6         | 2.7        | 2.6           | 2.7     |
| K5.08         | Solenoid operated valves                                                                                                                     |               | 2.6         | 2.7        | 2.6           | 2.7     |
| K5.09         | Decay heat removal                                                                                                                           |               | 3.4         | 3.5        | 3.4           | 3.5     |
| K6            | Knowledge of the effect that a loss or malfunction of the following will have on the MAIN AND REHEAT STEAM SYSTEM:                           | (41.7 / 45.7) |             |            |               |         |
| K6.01         | Electrical power                                                                                                                             |               | 3.1         | 3.3        | 3.1           | 3.3     |
| K6.02         | Plant air systems                                                                                                                            |               | 3.2         | 3.2        | 3.2           | 3.2     |
| K6.03         | Safety valve operability                                                                                                                     |               | 3.6         | 3.6        | 3.6           | 3.6     |
| K6.04         | Relief valve operability: Plant-Specific                                                                                                     |               | 3.4         | 3.5        | 3.4           | 3.5     |
| 5.05          | Steam line integrity                                                                                                                         |               | 3.6         | 3.7        | 3.6           | 3.7     |
| 6.06م         | MSIV isolation signal                                                                                                                        |               | 3.8         | 3.9        | 3.8           | 3.9     |
| K6.07         | MSIV leakage control                                                                                                                         |               | 2.8         | 3.2        | 2.8           | 3.2     |
| K6.08         | Main condenser vacuum                                                                                                                        |               | 3.3         | 3.4        | 3.3           | 3.4     |
| K6.09         | PCIS/NSSSS                                                                                                                                   |               | 3.9         | 4.1*       | 3.9           | 4.1     |
| <b>K6</b> .10 | ADS/low low set: Plant-Specific                                                                                                              |               | 3.6         | 3.7        | 3.6           | 3.7     |
| Al            | Ability to predict and/or monitor changes in parameters<br>associated with operating the MAIN AND REHEAT<br>STEAM SYSTEM controls including: | (41.5 / 45.5) |             |            |               |         |
| A1.01         | Main steam pressure                                                                                                                          |               | 3.6         | 3.6        | 3.6           | 3.6     |
| A1.02         | Main steam temperature                                                                                                                       |               | 2.6         | 2.6        | 2.6           | 2.6     |
| A1.03         | Reheat steam pressure: Plant-Specific                                                                                                        |               | 2.2*        | 2.2*       | 2.2           | 2.2     |
| A1.04         | Reheater temperature: Plant-Specific                                                                                                         |               | 2.3*        | 2.3        | 2.3           | 2.3     |
| A1.05         | Main steam line radiation monitors                                                                                                           |               | 3.6         | 3.6        | 3.6           | 3.6     |
| A1.06         | Air ejector process radiation monitor                                                                                                        |               | 3.4         | 3.4        | 3.4           | 3.4     |
| A1.07         | Reactor water level                                                                                                                          |               | 3.7         | 3.7        | 3.7           | 3.7     |
| A1.08         | Reactor pressure                                                                                                                             |               | 3.8         | 3.8        | 3.8           | 3.8     |
| A1.09         | Main steam flow                                                                                                                              |               | 3.5         | 3.4        | 3.5           | 3.4     |
| A1.10         | Reactor power                                                                                                                                |               | 3.8         | 3.8        | 3.8           | 3.8     |

|        | Facility: CPS                      |                                                                                         | ity: CPS              |            | Printe     | d: 08/1    | 1/2006       |
|--------|------------------------------------|-----------------------------------------------------------------------------------------|-----------------------|------------|------------|------------|--------------|
|        | System Number:                     | 239001                                                                                  |                       |            |            |            |              |
|        | <u>System Name:</u>                | Main and Reheat Steam System                                                            |                       | <u>NRC</u> | lmp        | Facili     | <u>ty Ir</u> |
|        |                                    |                                                                                         | CFR                   | RO         | SRO        | RO         | Ł            |
| A2     | Ability to (a) pr<br>MAIN AND RH   | redict the impacts of the following on the<br>EHEAT STEAM SYSTEM; and (b) based         | (41.5 / 45.6)         |            |            |            |              |
|        | on those predic<br>or mitigate the | tions, use procedures to correct, control,<br>consequences of those abnormal conditions |                       |            |            |            |              |
|        | or operations:                     |                                                                                         |                       | 20         | 2.0        | 2.0        | 2.0          |
| A2.01  | Malfunction of                     | reactor turbine pressure regulating system                                              |                       | 3.8        | 3.9        | 3.8        | 3.9          |
| A2.02  | Change in stea                     | im demand and its effect on reactor pressure                                            |                       | 3.0        | 3.8        | 3.6        | 3.8          |
| A 7 07 | and power                          |                                                                                         |                       | 4.0        | 4.2        | 4.0        | 17           |
| A2.03  | Moin steem lin                     |                                                                                         |                       | 4.0        | 7.2        | 4.0        | 7.2          |
| A2.04  | Main steam in                      | ine high rediction                                                                      |                       | 3.5        | .0<br>⊿ 2* | 3.5        | 5.0<br>1 2   |
| A2.03  | Turbing trip as                    | ine ingli radianoli                                                                     |                       | J.9<br>1 1 |            | 3.7<br>4 1 | 4.2          |
| A 2.00 | i urome mp w                       | nnour bypass valves                                                                     |                       | 4.1<br>2.0 | 3.0        | 4.1        | 4.5          |
| A2.07  | temperature hi                     | gh                                                                                      |                       | 5.0        | 3.9        | 3.6        | 5.9          |
| A2.08  | Low condense                       | r vacuum                                                                                |                       | 3.6        | 3.6        | 3.6        | 3.6          |
| A2.09  | Opening of he<br>pressure in the   | ad vent to drywell equipment sump with reactor vessel                                   |                       | 3.4        | 3.7        | 3.4        | 3.7          |
| A2.10  | Closure of one                     | or more MSIV's at power                                                                 |                       | 3.8        | 3.9        | 3.8        | 3.9          |
| A2.11  | Steam line bre                     | ak                                                                                      |                       | 4.1        | 4.3*       | 4.1        | 4.3          |
| A2.12  | PCIS/NSSSS a                       | actuation                                                                               |                       | 4.2*       | 4.3*       | 4.2        | 4.3          |
| A2.13  | High reactor w                     | vater level                                                                             |                       | 3.5        | 3.7        | 3.5        | 3.7          |
| A2.14  | Inadvertent ini<br>and steam flow  | tiation of HPC1/HPCS/RCIC (steam quality<br>v): Plant-Specific                          |                       | 3.4        | 3.5        | 3.4        | 3.5          |
| A3     | Ability to moni<br>AND REHEAT      | tor automatic operations of the MAIN<br>STEAM SYSTEM including:                         | (41.7 / 45.7)         |            |            |            |              |
| A3.01  | Isolation of ma                    | ain steam system                                                                        |                       | 4.2*       | 4.1*       | 4.2        | 4.1          |
| A3.02  | Opening and c<br>changes: Plant    | losing of drain valves as turbine load<br>-Specific                                     |                       | 2.9        | 2.9        | 2.9        | 2.9          |
| A3.03  | Moisture separ                     | rator reheat steam supply: Plant-Specific                                               |                       | 2.8        | 2.8        | 2.8        | 2.8          |
| A3.04  | Isolation of m                     | oisture separator reheater: Plant-Specific                                              |                       | 2.7        | 2.7        | 2.7        | 2.7          |
| A4     | Ability to manu<br>roo <b>m</b> :  | ally operate and/or monitor in the control                                              | (41.7 / 45.5 to 45.8) |            |            |            |              |
| A4.01  | MSIV's                             |                                                                                         |                       | 4.2*       | 4.0        | 4.2        | 4.0          |
| A4.02  | Maim steam li                      | ne drain valves                                                                         |                       | 3.2        | 3.2        | 3.2        | 3.2          |
| A4.03  | System flow                        |                                                                                         |                       | 3.5        | 3.5        | 3.5        | 3.5          |
| A4.04  | System pressu                      | re                                                                                      |                       | 3.8        | 3.7        | 3.8        | 3.7          |
| A4.05  | System temper                      | rature                                                                                  |                       | 2.7        | 2.7        | 2.7        | 2.7          |
| A4.06  | System radiati                     | on levels                                                                               |                       | 3.6        | 3.8        | 3.6        | 3.8          |
| A4.07  | Lights and ala                     | rms                                                                                     |                       | 3.3        | 3.3        | 3.3        | 3.3          |
| A4.08  | Reactor water                      | level                                                                                   |                       | 3.7        | 3.7        | 3.7        | 3.7          |
| A4.09  | Reactor pressu                     | re                                                                                      |                       | 3.9        | 3.9        | 3.9        | 3.9          |
| A4.10  | Reactor power                      | r                                                                                       |                       | 3.8        | 3.8        | 3.8        | 3.8          |
| A4.11  | Alternate meth                     | nods of verifying valve positions                                                       |                       | 3.1        | 3.3        | 3.1        | 3.3          |

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|                     | System Number:                                     | 239002                                                                                                                                     |                                  |      |      |        |        |
|---------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------|--------|--------|
|                     | System Name                                        | Relief/Safety Valves                                                                                                                       |                                  | NRC  | lmn  | Facili | tv Imo |
|                     | System Mane.                                       | Nenen Salety Valves                                                                                                                        | CFR                              | RO   | SRO  | RO     | SRO    |
| K1                  | Knowledge of<br>effect relation:<br>and the follow | the physical connections and/or cause-<br>ships between RELIEF/SAFETY VALVES                                                               | (41.2 to 41.9 / 45.7 to<br>45.8) |      |      |        |        |
| K1 01               | Nuclear boile                                      | ng.                                                                                                                                        |                                  | 3.8  | 3.9  | 3.8    | 3.9    |
| K1.01               | SPDS/FRIS/                                         | " CRIDS/GDS: Plant-Specific                                                                                                                |                                  | 2.5* | 2.9  | 2.5    | 2.9    |
| K1.02               | Nuclear boile                                      | r instrument system                                                                                                                        |                                  | 3.5  | 3.0  | 3.5    | 3.0    |
| K1.03               | Main steam                                         | A monument system                                                                                                                          |                                  | 3.6  | 3.7  | 3.6    | 3.7    |
| K1.04               | Plant air syst                                     | ems' Plant-Specific                                                                                                                        |                                  | 3.1  | 3.3  | 3.1    | 3.3    |
| K1.05               | Drowell instra                                     | mont air/ dravall proventice: Plant. Specific                                                                                              |                                  | 3.4  | 3.6  | 3.4    | 3.6    |
| K1.00               | Suppression                                        | nool                                                                                                                                       |                                  | 3.6  | 3.8  | 3.6    | 3.8    |
| K1.07               | Automatic de                                       | pressurization system                                                                                                                      |                                  | 4 0* | 4.1  | 4.0    | 4.1    |
| K1.08<br>K1.09      | Drywell press<br>airspace): Plai                   | ure (for safety valves which discharge to the dr<br>nt-Specific                                                                            | <del>ywell</del>                 | 4.0  | 4.0  | 4.0    | 4.0    |
| <b>K2</b><br>K2.01  | Knowledge of<br>SRV solenoid                       | electrical power supplies to the following:<br>ds                                                                                          | (41.7)                           | 2.8* | 3.2* | 2.8    | 3.2    |
| K3                  | Knowledge of<br>RELIEF/SAF                         | the effect that a loss or malfunction of the<br>ETY VALVES will have on following:                                                         | (41.7 / 45.4)                    |      |      |        |        |
| K3.01               | Reactor press                                      | sure control                                                                                                                               |                                  | 3.9  | 4.0  | 3.9    | 4.0    |
| 3.02                | Reactor over                                       | pressurization                                                                                                                             |                                  | 4.2* | 4.4* | 4.2    | 4.4    |
| <del>ن</del> اب .03 | Ability to rap                                     | bidly depressurize the reactor                                                                                                             |                                  | 4.3* | 4.4* | 4.3    | 4.4    |
| K4                  | Knowledge of<br>feature(s) and<br>following:       | RELIEF/SAFETY VALVES design<br>/or interlocks which provide for the                                                                        | (41.7)                           |      |      |        |        |
| K4.01               | Insures that of following the (LLS logic):         | only one or two safety/relief valves reopen<br>e initial portion of a reactor isolation event<br>Plant-Specific                            |                                  | 3.9  | 4.0  | 3.9    | 4.0    |
| K4.02               | Minimizes co<br>relief valve c                     | ontainment fatigue duty cycles resulting from<br>cycling during decay-heat-dominant period late<br>n transient (LLS logic): Plant-Specific |                                  | 3.4  | 3.6  | 3.4    | 3.6    |
| K4.03               | Prevents siph                                      | n number (LES logic). This spectro<br>noning of water into SRV discharge piping and<br>on subsequent actuation of SRV's                    |                                  | 3.1  | 3.3  | 3.1    | 3.3    |
| K4.04               | Ensures even<br>and adequate                       | a distribution of heat load to suppression pool,<br>esteam condensing                                                                      |                                  | 3.4  | 3.6  | 3.4    | 3.6    |
| K4.05               | Allows for S<br>Plant-Specifi                      | RV operation from more than one location:                                                                                                  |                                  | 3.6  | 3.7  | 3.6    | 3.7    |
| K4.06               | Detection of                                       | valve leakage                                                                                                                              |                                  | 3.5  | 3.7  | 3.5    | 3.7    |
| K4.07               | Minimum ste<br>open SRV                            | eam pressure required to keep SRV open or to                                                                                               |                                  | 3.1  | 3.2  | 3.1    | 3.2    |
| K4.08               | Opening of t<br>mechanical s                       | he SRV from either an electrical or<br>signal                                                                                              |                                  | 3.6  | 3.7  | 3.6    | 3.7    |
| K4.09               | Manual open                                        | ning of the SRV                                                                                                                            |                                  | 3.7  | 3.6  | 3.7    | 3.6    |

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|-------|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------|--------|----------|--------|
|       | System Number: 239002                                                                                                                |               |      |        |          |        |
|       | System Name: Relief/Safety Valves                                                                                                    |               | NRC  | lmp    | Facili   | tv Ir  |
|       |                                                                                                                                      | CFR           | RO   | SRO    | RO       | 1      |
| K5    | Knowledge of the operational implications of the following concepts as they apply to RELIEF/SAFETY                                   | (41.5 / 45.3) |      |        |          |        |
| K5.01 | Relief function of SRV operation                                                                                                     |               | 3.4  | 3.5    | 3.4      | 3.5    |
| K5 02 | Safety function of SRV operation                                                                                                     |               | 3.7  | 3.8    | 3.7      | 3.8    |
| K5.03 | Acoustical monitoring: Plant-Specific                                                                                                |               | 3.7  | 3.8    | 3.7      | 3.8    |
| K5.04 | Tail pipe temperature monitoring                                                                                                     |               | 3.3  | 3.5    | 3.3      | 3.5    |
| K5 05 | Discharge line quencher operation                                                                                                    |               | 2.6  | 2.9    | 2.6      | 2.9    |
| K5.06 | Vacuum breaker operation                                                                                                             |               | 2.7  | 3.0    | 2.7      | 3.0    |
| K6    | Knowledge of the effect that a loss or malfunction of the following will have on the RELIEF/SAFETY VALVES:                           | (41.7 / 45.7) |      |        |          |        |
| K6.01 | Nuclear boiler instrument system (pressure indication)                                                                               |               | 3.2  | 3.4    | 3.2      | 3.4    |
| K6.02 | Air (Nitrogen) supply: Plant-Specific                                                                                                |               | 3.4  | 3.5    | 3.4      | 3.5    |
| K6.03 | A.C. power: Plant-Specific                                                                                                           |               | 2.7* | 2.9*   | 2.7      | 2.9    |
| K6.04 | D.C. power: Plant-Specific                                                                                                           |               | 3.0  | 3.2    | 3.0      | 3.2    |
| K6.05 | Discharge line vacuum breaker                                                                                                        |               | 3.0  | 3.2    | 3.0      | 3.2    |
| A1    | Ability to predict and/or monitor changes in parameters<br>associated with operating the RELIEF/SAFETY<br>VALVES controls including: | (41.5 / 45.5) |      |        |          |        |
| A1.01 | Tail nine temperature                                                                                                                |               | 3.3  | 3.4    | 3.3      | 3.     |
| A1.02 | Acoustical monitor noise: Plant-Specific                                                                                             |               | 3.7  | 3.8    | 3.7      | 3.8    |
| A1.03 | Air sumply: Plant-Specific                                                                                                           |               | 2.8  | 2.9    | 2.8      | 2.9    |
| A1.04 | Reactor pressure                                                                                                                     |               | 3.8  | 3.8    | 3.8      | 3.8    |
| A1.05 | Reactor water level                                                                                                                  |               | 3.7  | 3.8    | 3.7      | 3.8    |
| A1.06 | Reactor power                                                                                                                        |               | 3.7  | 3.8    | 3.7      | 3.8    |
| A1.07 | Turbine load                                                                                                                         |               | 2.9  | 3.0    | 2.9      | 3.0    |
| A1.08 | Suppression pool water temperature                                                                                                   |               | 3.8  | 4.1    | 3.8      | 4.1    |
| A1.09 | Indicated vs. actual steam flow: Plant-Specific                                                                                      |               | 3.1  | 3.3    | 3.1      | 3.3    |
| A2    | Ability to (a) predict the impacts of the following on the<br>RELIEF/SAFETY VALVES; and (b) based on those                           | (41.5 / 45.6) |      |        |          |        |
|       | predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions<br>operations:         | or            |      |        |          |        |
| A2.01 | Stuck open vacuum breakers                                                                                                           |               | 3.0  | 3.3    | 3.0      | 3.3    |
| A2.02 | Leaky SRV                                                                                                                            |               | 3.1  | 3.2    | 3.1      | 3.2    |
| A2.03 | Stuck open SRV                                                                                                                       |               | 4.1  | 4.2*   | 4.1      | 4.2    |
| A2.04 | ADS actuation                                                                                                                        |               | 4.]* | 4.2*   | 4.1      | 4.2    |
| A2.05 | Low reactor pressure                                                                                                                 |               | 3.2  | 3.4    | 3.2      | 3.4    |
| A2.06 | Reactor high pressure                                                                                                                |               | 4.1  | 4.3*   | 4.1      | 4.3    |

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|             | Facility: CPS                                                                     |                            |      | Printed: 08/11/2006 |        |        |  |
|-------------|-----------------------------------------------------------------------------------|----------------------------|------|---------------------|--------|--------|--|
|             | System Number: 239002                                                             |                            |      |                     |        |        |  |
|             | System Name: Relief/Safety Valves                                                 |                            | NRC  | Imp                 | Facili | ty Imp |  |
| Sec. 1      |                                                                                   | CFR                        | RO   | SRO                 | RO     | SRO    |  |
| A3          | Ability to monitor automatic operations of the<br>RELIEF/SAFETY VALVES including: | (41.7 / 45.7)              |      |                     |        |        |  |
| A3.01       | SRV operation after ADS actuation                                                 |                            | 3.8* | 3.9*                | 3.8    | 3.9    |  |
| A3.02       | SRV operation on high reactor pressure                                            |                            | 4.3* | 4.3*                | 4.3    | 4.3    |  |
| A3.03       | Tail pipe temperatures                                                            |                            | 3.6  | 3.6                 | 3.6    | 3.6    |  |
| A3.04       | Acoustical monitor noise: Plant-Specific                                          |                            | 3.6  | 3.7                 | 3.6    | 3.7    |  |
| A3.05       | Suppression pool temperature                                                      |                            | 4.1* | 4.2*                | 4.1    | 4.2    |  |
| A3.06       | Reactor pressure                                                                  |                            | 4.1* | 4.1*                | 4.1    | 4.1    |  |
| A3.07       | Reactor water level                                                               |                            | 3.8  | 3.9                 | 3.8    | 3.9    |  |
| A3.08       | Lights and alarms                                                                 |                            | 3.6  | 3.6                 | 3.6    | 3.6    |  |
| A3.09       | Low low set logic: Plant-Specific                                                 |                            | 3.9  | 3.9                 | 3.9    | 3.9    |  |
| A4          | Ability to manually operate and/or monitor in the controom:                       | trol (41.7 / 45.5 to 45.8) |      |                     |        |        |  |
| A4.01       | SRV's                                                                             |                            | 4.4* | 4.4*                | 4.4    | 4.4    |  |
| A4.02       | Tail pipe temperatures                                                            |                            | 3.6  | 3.7                 | 3.6    | 3.7    |  |
| A4.03       | Acoustical monitor noise: Plant-Specific                                          |                            | 3.8  | 3.9                 | 3.8    | 3.9    |  |
| A4.04       | Suppression pool temperature                                                      |                            | 4.3* | 4.3*                | 4.3    | 4.3    |  |
| A4.05       | Reactor pressure                                                                  |                            | 4.3* | 4.3*                | 4.3    | 4.3    |  |
| A4.06       | Reactor water level                                                               |                            | 3.9  | 4.1                 | 3.9    | 4.1    |  |
| A4.07       | Lights and alarms                                                                 |                            | 3.6  | 3.6                 | 3.6    | 3.6    |  |
| <b>'.08</b> | Plant air system pressure: Plant-Specific                                         |                            | 3.2  | 3.2                 | 3.2    | 3.2    |  |

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------------|---------------|--|--|
|                                | System Number: 239003                                                                                                                                                                          |           |            |                    |               |  |  |
|                                | System Name: MSIV Leakage Control System                                                                                                                                                       | NRC       | lmn        | Facilit            | <b>ս I</b> ատ |  |  |
| $\smile$                       | <u>System Name.</u> MSTV Leakage Control System CFR                                                                                                                                            | RO        | SRO        | RO                 | SRO           |  |  |
| K1                             | Knowledge of the physical connections and/or cause-<br>effect relationships between MSIV LEAKAGE(41.2 to 41.9 / 45.7 toCONTROL SYSTEM and the following:45.8)                                  |           |            |                    |               |  |  |
| <b>V101</b>                    | CONTROL SYSTEM and the following:                                                                                                                                                              | 3 3*      | 34         | 33                 | 34            |  |  |
| K1.01                          | $\frac{Wain Steam System. D W R - 4, 5, 0(T - 5)ec}{Standley, and transformer DWD A - 5, 6(D Spee)}$                                                                                           | 20        | 3.4        | 20                 | 3.0           |  |  |
| K1.02                          | Main storm line processing instrumentation, DWP 4.5.6(D Spee)                                                                                                                                  | 2.9       | 3.0        | 3.1                | 3.0           |  |  |
| K1.03                          | $\frac{W_{\text{unit Steam the pressure instrumentation: D w K^4, 5, 0(\Gamma^2) - 5, 0(\Gamma^2)}{\Lambda_1(\Gamma_2)}$                                                                       | ).1<br>)7 | 3.1<br>2.9 | 2.1                | 2.1           |  |  |
| K1.04                          | A.L. electrical distribution: BWK-4, 3, 6(P-Spec)                                                                                                                                              | 2.7       | 2.0        | 2.7                | 2.0           |  |  |
| K1.05                          | Steam tunnel: BWK-4, 5, 6(P-Spec)                                                                                                                                                              | 2.9       | 2.9        | 2.9                | 2.9           |  |  |
| K1.06                          | Kadwaste system: BWR-4, 5, 6(P-Spec)                                                                                                                                                           | 2.4       | 2.4        | 2.4                | 2.4           |  |  |
| K1.07                          | Floor drainage system: BWR-4, 5, 6(P Spec)                                                                                                                                                     | 1.9*      | 1.9*       | 1.9                | 1.9           |  |  |
| K1.08                          | Nuclear boiler instrumentation: BWR-4, 5, 6(P-Spec)                                                                                                                                            | 2.8       | 2.8        | 2.8                | 2.8           |  |  |
| К2                             | Knowledge of electrical power supplies to the following: (41.7)                                                                                                                                |           |            |                    |               |  |  |
| K2.01                          | Motor operated valves: BWR-4, 5, 6(P Spec)                                                                                                                                                     | 2.3*      | 2.3*       | 2.3                | 2.3           |  |  |
| K2.02                          | Leakage control system blowers: BWR-4, 5, 6(P-Spec)                                                                                                                                            | 1.9*      | 2.0*       | 1.9                | 2.0           |  |  |
| K2.03                          | Leakage control system heaters: BWR-4, 5, 6(P-Spec)                                                                                                                                            | 1.9*      | 2.0*       | 1.9                | 2.0           |  |  |
| <b>КЗ</b><br><sup>-</sup> 3.01 | Knowledge of the effect that a loss or malfunction of the (41.5 / 45.3)<br>MSIV LEAKAGE CONTROL SYSTEM will have on<br>following:<br>Radiation release to the environment: BWR-4, 5, 6(P-Spee) | 3.3       | 4.0        | 3.3                | 4.0           |  |  |
| K4                             | Knowledge of MSIV LEAKAGE CONTROL SYSTEM (41.7)<br>design feature(s) and/or interlocks which provide for the<br>following:                                                                     |           |            |                    |               |  |  |
| K4.01                          | Performance of its safety function following a loss of offsite<br>power: BWR 4, 5, 6(P Spec)                                                                                                   | 3.2       | 3.5        | 3.2                | 3.5           |  |  |
| K4.02                          | Performance of intended safety function following any single<br>active component failure: BWR-4, 5, 6(P-Spec)                                                                                  | 3.0       | 3.4        | 3.0                | 3.4           |  |  |
| K4.03                          | The prevention of inadvertent system operation:-<br>BWR-4,5,6(P-Spec)                                                                                                                          | 2.9       | 3.2        | 2.9                | 3.2           |  |  |
| K4.04                          | Surveillance for system operability: BWR-4, 5, 6                                                                                                                                               | 2.4       | 2.8        | 2.4                | 2.8           |  |  |
| K4.05                          | Assurance that any MSIV leakage will pass through the system                                                                                                                                   | 2.4*      | 2.8*       | 2.4                | 2.8           |  |  |
|                                | and into standby gas treatment prior to release to the atmosphere:<br>BWR-4, 5, 6(P-Spec)                                                                                                      |           |            |                    |               |  |  |
| K4.06                          | The depressurization of main steam piping prior to routing -<br>leakage through system: BWR-4, 5, 6                                                                                            | 3.1       | 3.3        | 3.1                | 3.3           |  |  |
| K4.07                          | The reduction of MSIV-leakage temperature: BWR-4,5,6(P-Spec)                                                                                                                                   | 2.4       | 2.4        | 2.4                | 2.4           |  |  |
| K4.08                          | Prevention of collected condensate in system bleed lines: BWR-4,<br><del>5, 6(P-Spec)</del>                                                                                                    | 2.3       | 2.4        | 2.3                | 2.4           |  |  |
| K4.09                          | The dilution of MSIV leakage: BWR-4, 5, 6(P-Spec)                                                                                                                                              | 2.4       | 2.4        | 2.4                | 2.4           |  |  |

|        | Facility: CPS                                                                                                                                                                                                                      |               |     | Printed: 08/11/2006 |     |              |     |  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|---------------------|-----|--------------|-----|--|
|        | System Number: 239003                                                                                                                                                                                                              |               |     |                     |     |              |     |  |
|        | System Name: MSIV Leakage Control System                                                                                                                                                                                           |               |     | NDC I.              |     | Imn Facility |     |  |
|        |                                                                                                                                                                                                                                    |               | CFR | RO                  | SRO | RO           | 5.  |  |
| K6     | Knowledge of the effect that a loss or malfunction of the following will have on the MSIV LEAKAGE CONTROL SYSTEM:                                                                                                                  | (41.7 / 45.7) |     |                     |     |              |     |  |
| K6.01  | A.C. electrical distribution: BWR-4, 5, 6(P-Spec)                                                                                                                                                                                  |               |     | 2.8                 | 3.0 | 2.8          | 3.0 |  |
| K6.02  | Standby gas treatment system: BWR-4, 5, 6(P-Spec)                                                                                                                                                                                  |               |     | 2.8                 | 3.0 | 2.8          | 3.0 |  |
| K6.03  | Nuclear boiler instrumentation: BWR-4, 5, 6(P-Spec)                                                                                                                                                                                |               |     | 2.6                 | 2.9 | 2.6          | 2.9 |  |
| A1     | Ability to predict and/or monitor changes in parameters<br>associated with operating the MSIV LEAKAGE                                                                                                                              | (41.5 / 45.5) |     |                     |     |              |     |  |
| A 1 01 | Main steam line pressure: BWP 4, 5, 6                                                                                                                                                                                              |               |     | 3.1                 | 3 1 | 2 1          | 2.1 |  |
| A1.02  | Heater operation: RWR-4.5.6(P.Spec)                                                                                                                                                                                                |               |     | 26                  | 2.1 | 2.1          | 2.1 |  |
| A1.02  | Dilution air flow: BWP 4 5 6(P Spec)                                                                                                                                                                                               |               |     | 2.0                 | 2.0 | 2.0          | 2.0 |  |
| A1.05  | Status indicating lights and alarme: BWP.4.5.6                                                                                                                                                                                     |               |     | 2.4                 | 2.0 | 2.4          | 2.0 |  |
| A1.04  | Suctor lineur: BWP.4.5.6                                                                                                                                                                                                           |               |     | 2.9                 | 2.0 | 2.9          | 2.0 |  |
| A1.05  | MSIV leakage flow: RWP_1 5 6                                                                                                                                                                                                       |               |     | 2.6                 | 2.9 | 2.6          | 2.9 |  |
| A1.07  | Reactor building temperature: BWR-4, 5, 6(P Spec)                                                                                                                                                                                  |               |     | 2.7                 | 2.7 | 2.7          | 2.7 |  |
| A2     | Ability to (a) predict the impacts of the following on the<br>MSIV LEAKAGE CONTROL SYSTEM; and (b) based<br>on those predictions, use procedures to correct, control,<br>or mitigate the consequences of those abnormal conditions | (41.5 / 45.6) |     |                     |     |              | ,   |  |
|        | or operations:                                                                                                                                                                                                                     |               |     |                     |     |              |     |  |
| A2.01  | Inboard MSIV valve leakage: BWR-4, 5, 6                                                                                                                                                                                            |               |     | 2.8                 | 3.2 | 2.8          | 3.2 |  |
| A2.02  | Outboard MSIV-valves leakage: BWR-4, 5, 6                                                                                                                                                                                          |               |     | 2.9                 | 3.3 | 2.9          | 3.3 |  |
| A2.03  | Low dilution air flow (inboard and/or outboard): BWR-4, 5,<br>6(P-Spec)                                                                                                                                                            |               |     | 2.6                 | 2.7 | 2.6          | 2.7 |  |
| A2.04  | Outboard system logic failure: BWR-4, 5, 6                                                                                                                                                                                         |               |     | 2.7                 | 3.0 | 2.7          | 3.0 |  |
| A2.05  | Inboard system logic failure: BWR-4, 5, 6                                                                                                                                                                                          |               |     | 2.7                 | 3.0 | 2.7          | 3.0 |  |
| A2.06  | Blower failure: BWR-4, 5, 6(P-Spec)                                                                                                                                                                                                |               |     | 2.6                 | 2.6 | 2.6          | 2.6 |  |
| A2.07  | Heater failure: BWR-4, 5, 6(P-Spec)                                                                                                                                                                                                |               |     | 2.4                 | 2.4 | 2.4          | 2.4 |  |
| A2.08  | Motor operator valve failure(s): BWR-4, 5, 6                                                                                                                                                                                       |               |     | 2.8                 | 3.0 | 2.8          | 3.0 |  |
| A2.09  | Outboard main steamline high pressure: BWR-4, 5, 6(P-Spee                                                                                                                                                                          | )             |     | 2.8                 | 3.0 | 2.8          | 3.0 |  |
| A2.10  | A.C. distribution power failures: BWR-4, 5, 6                                                                                                                                                                                      |               |     | 2.8                 | 3.0 | 2.8          | 3.0 |  |
| A2.11  | High reactor pressure: BWR-4, 5, 6                                                                                                                                                                                                 |               |     | 3.1                 | 3.3 | 3.1          | 3.3 |  |
| A2.12  | MSIV valve failure to close: BWR 4, 5, 6                                                                                                                                                                                           |               |     | 3.5                 | 3.8 | 3.5          | 3.8 |  |

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System Number: 239003

|       | System Name: MSIV Leakage Control System                                                 |                         | NRC 1mp |     | <u>Facili</u> | ty Imp |
|-------|------------------------------------------------------------------------------------------|-------------------------|---------|-----|---------------|--------|
|       |                                                                                          | CFR                     | RO      | SRO | RO            | SRO    |
| A3    | Ability to monitor automatic operations of the MSIV<br>LEAKAGE CONTROL SYSTEM including: | (41.7 / 45.7)           |         |     |               |        |
| A3.01 | System logic initiation: BWR-4, 5, 6(P-Spec)                                             |                         | 3.0     | 2.8 | 3.0           | 2.8    |
| A3.02 | Main steamline pressures: BWR-4, 5, 6                                                    |                         | 3.1     | 2.8 | 3.1           | 2.8    |
| A3.03 | Dilution air flaws: BWR-4, 5, 6(P-Spec)                                                  |                         | 2.4     | 2.3 | 2.4           | 2.3    |
| A3.04 | MSIV leakage flows: BWR 4, 5, 6(P-Spec)                                                  |                         | 2.8     | 2.6 | 2.8           | 2.6    |
| A3.05 | Heater operation: BWR-4, 5, 6(P-Spec)                                                    |                         | 2.3     | 2.2 | 2.3           | 2.2    |
| A3.06 | System status lights and alarms: BWR-4, 5, 6                                             |                         | 2.8     | 2.8 | 2.8           | 2.8    |
| A3.07 | System lineups: BWR-4, 5, 6                                                              |                         | 3.1     | 2.9 | 3.1           | 2.9    |
| A3.08 | Blower operation: BWR-4, 5, 6(P-Spec)                                                    |                         | 2.4     | 2.3 | 2.4           | 2.3    |
| A3.09 | Reactor building temperature: BWR-4, 5, 6(P-Spee)                                        |                         | 2.6     | 2.5 | 2.6           | 2.5    |
| A4    | Ability to manually operate and/or monitor in the contro                                 | l (41.7 / 45.5 to 45.8) |         |     |               |        |
|       | room:                                                                                    |                         |         |     | ~ ~           |        |
| A4.01 | Manually initiate system operation: BWR-4, 5, 6(P Spec)                                  |                         | 3.2     | 3.2 | 3.2           | 3.2    |
| A4.02 | <del>†Surveillance testing: BWR-4, 5, 6(P-Spec)</del>                                    |                         | 2.5     | 2.8 | 2.5           | 2.8    |
| A4.03 | Main steamline pressures: BWR-4, 5, 6                                                    |                         | 3.3     | 3.2 | 3.3           | 3.2    |
| A4.04 | Dilution air flows: BWR-4, 5, 6(P-Spec)                                                  |                         | 2.5     | 2.4 | 2.5           | 2.4    |
| A4.05 | MSIV leakage flows: BWR-4, 5, 6(P-Spec)                                                  |                         | 2.8     | 2.7 | 2.8           | 2.7    |
| A4.06 | Heater operation: BWR-4, 5, 6(P-Spec)                                                    |                         | 2.4     | 2.3 | 2.4           | 2.3    |
| A4.07 | System status lights and alarms: BWR-4, 5, 6(P-Spec)                                     |                         | 2.8     | 2.7 | 2.8           | 2.7    |
| A4.08 | System lineups: BWR-4, 5, 6(P-Spec)                                                      |                         | 3.1     | 2.9 | 3.1           | 2.9    |
| A4.09 | System reset: BWR-4, 5, 6(P-Spec)                                                        |                         | 3.0     | 2.8 | 3.0           | 2.8    |

System Number: 241000

Facility: CPS

|                | System Name:                                  | Reactor/Turbine Pressure Regulating Sys                                                                         | stem                  |              | <u>NRC</u> | Imp  | Facili | ty Imp |
|----------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|--------------|------------|------|--------|--------|
|                |                                               |                                                                                                                 |                       | CFR          | RO         | SRO  | RO     | SRO    |
| K1             | Клоwledge of<br>effect relation<br>PRESSURE F | the physical connections and/or cause-<br>ships between REACTOR/TURBINE<br>REGULATING SYSTEM and the following: | (41.2 to 41.<br>45.8) | .9 / 45.7 to |            |      |        |        |
| K1.01          | Reactor pow                                   | er                                                                                                              |                       |              | 3.8        | 3.9  | 3.8    | 3.9    |
| K1.02          | Reactor press                                 | sure                                                                                                            |                       |              | 3.9        | 4.1  | 3.9    | 4.1    |
| K1.03          | Reactor wate                                  | r level                                                                                                         |                       |              | 3.6        | 3.7  | 3.6    | 3.7    |
| K1.04          | Reactor stear                                 | n flow                                                                                                          |                       |              | 3.7        | 3.7  | 3.7    | 3.7    |
| K1.05          | Main turbine                                  | steam flow                                                                                                      |                       |              | 3.5        | 3.6  | 3.5    | 3.6    |
| K1.06          | Bypass valve                                  | 25                                                                                                              |                       |              | 3.8        | 3.9  | 3.8    | 3.9    |
| K1.07          | Main stop/th                                  | rottle valves                                                                                                   |                       |              | 3.4        | 3.6  | 3.4    | 3.6    |
| K1.08          | Control/gove                                  | ernor valves                                                                                                    |                       |              | 3.6        | 3.7  | 3.6    | 3,7    |
| K1.09          | Combined in                                   | termediate valves: Plant Specific                                                                               |                       |              | 3.1        | 3.4  | 3.1    | 3.4    |
| K1.10          | Front standa                                  | rd trip system                                                                                                  |                       |              | 3.2        | 3.3  | 3.2    | 3.3    |
| K1.11          | RPS                                           |                                                                                                                 |                       |              | 3.7        | 3.8  | 3.7    | 3.8    |
| K1.12          | FW extraction                                 | n non-return valves                                                                                             |                       |              | 2.4        | 2.6  | 2.4    | 2.6    |
| K1.13          | Bearing oil                                   |                                                                                                                 |                       |              | 2.6        | 2.6  | 2.6    | 2.6    |
| K1.14          | A.C. electric                                 | al power                                                                                                        |                       |              | 2.8        | 2.9  | 2.8    | 2.9    |
| K1.15          | D.C. electrica                                | l power                                                                                                         |                       |              | 2.6        | 2.7  | 2.6    | 2.7    |
| K1.16          | Component                                     | cooling water systems                                                                                           |                       |              | 2.5        | 2.6  | 2.5    | 2.6    |
| K1.17          | Turbine ches                                  | t warming: EHC-Only                                                                                             |                       |              | 2.4        | 2.5  | 2.4    | 2.5    |
| K1.18          | Turbine shel                                  | l warming: EHC-Only                                                                                             |                       |              | 2.4        | 2.5  | 2.4    | 2.5    |
| K1.19          | Turbine acce                                  | eleration                                                                                                       |                       |              | 2.6        | 2.6  | 2.6    | 2.6    |
| K1.20          | Turbine spee                                  | :d                                                                                                              |                       |              | 2.7        | 2.7  | 2.7    | 2.7    |
| K1.21          | Turbine inle                                  | t pressure                                                                                                      |                       |              | 2.7        | 2.1  | 2.7    | 2.7    |
| K1.22          | Turbine trip                                  |                                                                                                                 |                       |              | 3.4        | 3.5  | 3.4    | 3.5    |
| K1.23          | Recirculation                                 | flow control-system: Plant-Specific                                                                             |                       |              | 3.0        | 3.1  | 3.0    | 3.1    |
| K1.24          | Main genera                                   | tor                                                                                                             |                       |              | 2.7        | 2.8  | 2.7    | 2.0    |
| K1.25          | Stator water                                  | cooling: Plant-Specific                                                                                         |                       |              | 2.0        | 2.0  | 2.0    | 2.0    |
| K1.26          | Main turbine                                  | e PMG: Plant-Specific                                                                                           |                       |              | 2.4        | 2.0  | 2.4    | 2.0    |
| K1.27          | Condenser v                                   | acuum                                                                                                           |                       |              | 2.1        | 3.1  | 3.1    | 3.1    |
| K1.28          | Reactor start                                 | up                                                                                                              |                       |              | 3.4        | 3.4  | 3.4    | 34     |
| K1,29          | Reactor near                                  | up<br>down                                                                                                      |                       |              | 3.7        | 3.3  | 3.2    | 3.3    |
| K1.30<br>K1.21 | Turking prot                                  | notion                                                                                                          |                       |              | 3.1        | 3.2  | 3.1    | 3.2    |
| NI.31          | Turbine prov                                  | itoring                                                                                                         |                       |              | 2.7        | 2.8  | 2.7    | 2.8    |
| K1.32          | FW ovtraction                                 | moring                                                                                                          |                       |              | 2.4        | 2.6  | 2.4    | 2.6    |
| NI.33          | F W EXITACIN                                  | · Plant-Specific                                                                                                |                       |              | 2.8        | 3.3  | 2.8    | 3.3    |
| N1.34          | Low present                                   | e ston and control values: Plant-Specific                                                                       |                       |              | 2.4        | 2.6  | 2.4    | 2.6    |
| L 1 26         | Drimany wat                                   | er system: Plant-Specific                                                                                       |                       |              | 2.1*       | 2.1* | 2.1    | 2.1    |
| K1.30          | Turbino stres                                 | e system. Hant-Specific                                                                                         |                       |              | 1.8*       | 1.8* | 1.8    | 1.8    |
| K1.38          | PCIS/NSSS                                     | S: Plant-Specific                                                                                               |                       |              | 2.7        | 2.8  | 2.7    | 2.8    |
| К2             | Knowledge o                                   | f electrical power supplies to the following:                                                                   | (41.7)                |              |            |      |        | -      |
| K2.01          | Pumps                                         |                                                                                                                 |                       |              | 2.1*       | 2.2* | 2.1    | 2.1    |
| K2.02          | Controls                                      |                                                                                                                 |                       |              | 2.1*       | 2.1* | 2.1    | 2.     |

K2.02 Controls

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|       | Facility: CPS                |                                                                         |               | Printed: 08/11/20 |                           |            |         |  |
|-------|------------------------------|-------------------------------------------------------------------------|---------------|-------------------|---------------------------|------------|---------|--|
|       | <u>System Number:</u>        | 241000                                                                  |               |                   |                           |            |         |  |
|       | System Name:                 | Reactor/Turbine Pressure Regulating Sy                                  | /stem         | NRC               | Imp                       | Facili     | ity Im- |  |
|       |                              |                                                                         | CFR           | RO                | SRO                       | RO         | SK      |  |
| К3    | Knowledge of (<br>REACTOR/T) | the effect that a loss or malfunction of the JRBINE PRESSURE REGULATING | (41.7 / 45.4) |                   |                           |            |         |  |
| K3 01 | Reactor nowe                 |                                                                         |               | 4 1               | 4 1                       | A 1        | 4.1     |  |
| K3.07 | Peactor press                | 179                                                                     |               | 7.1<br>1 7*       | 4.1<br>1 2*               | 4.1        | 4.1     |  |
| K3.02 | Reactor press                | lavol                                                                   |               | 37                | 4.5                       | 4.2        | 4.3     |  |
| K3.03 | Reactor steam                | flow                                                                    |               | 3.2               | 2.0                       | 20         |         |  |
| K3 05 | Main turbing                 | steam flow                                                              |               | 3.0               | 2.9                       | 3.0<br>27  | 3.9     |  |
| K3.05 | Rypace valves                |                                                                         |               | ۵.7<br>۱*         | <i>J</i> .7<br><i>A</i> 1 | 3.7<br>4 1 | 41      |  |
| K3.00 | Main ston/thro               | attle valves                                                            |               |                   | 33                        | 33         | 7.1     |  |
| K3.08 | Control/gover                | nor valves                                                              |               | 3.5               | 3.3                       | 3.5        | 3.7     |  |
| K3.00 | Combined into                | ermediate valves: Plant-Specific                                        |               | 37                | 33                        | 3.7        | 33      |  |
| K3 10 | Front standard               | trip system                                                             |               | 2.9               | 3.0                       | 29         | 3.0     |  |
| K3.11 | RPS                          | ap system                                                               |               | 3.8               | 3.8                       | 3.8        | 3.8     |  |
| K3 12 | FW extraction                | steam valves: Plant-Specific                                            |               | 24                | 24                        | 24         | 24      |  |
| K3.13 | FW extraction                | non-return valves                                                       |               | 2.3               | 2.4                       | 23         | 2.4     |  |
| K3.14 | Component co                 | poling water systems: Plant-Specific                                    |               | 2.3               | 2.3                       | 2.3        | 2.3     |  |
| K3.15 | Turbine chest                | warming: EHC-Only                                                       |               | 2.8               | 2.8                       | 2.8        | 2.8     |  |
| K3.16 | Turbine shell                | warming: EHC-Only                                                       |               | 2.8               | 2.8                       | 2.8        | 2.8     |  |
| K3.17 | Turbine accele               | eration                                                                 |               | 2.7               | 2.8                       | 2.7        | 2.8     |  |
| K3.18 | Turbine speed                |                                                                         |               | 2.9               | 2.9                       | 2.9        | 2.9     |  |
| K3.19 | Turbine inlet                | ressure                                                                 |               | 2.7               | 2.7                       | 2.7        | 2.7     |  |
| K3.20 | Turbine trip                 |                                                                         |               | 3.3               | 3.4                       | 3.3        | 3.4     |  |
| K3.21 | Recirculation f              | low control system: Plant-Specific                                      |               | 2.8               | 2.8                       | 2.8        | 2.8     |  |
| K3.22 | Main generato                | рг — — — — — — — — — — — — — — — — — — —                                |               | 2.6               | 2.6                       | 2.6        | 2.6     |  |
| K3.23 | Turbine trip te              | sting: Plant-Specific                                                   |               | 2.8               | 2.9                       | 2.8        | 2.9     |  |
| K3.24 | Reactor heatu                | p                                                                       |               | 3.2               | 3.2                       | 3.2        | 3.2     |  |
| K3.25 | Reactor coold                | own                                                                     |               | 3,3               | 3.3                       | 3.3        | 3,3     |  |
| K3.26 | Turbine protec               | ction                                                                   |               | 3.1               | 3.2                       | 3.1        | 3.2     |  |
| K3.27 | Turbine monit                | oring                                                                   |               | 2.4               | 2.6                       | 2.4        | 2.6     |  |
| K3.28 | Low pressure                 | stop and control valves: Plant-Specific                                 |               | 2.5               | 2.5                       | 2.5        | 2.5     |  |
| K3.29 | PCIS/NSSSS                   | •                                                                       |               | 2.9               | 3.1                       | 2.9        | 3.1     |  |
| K3.30 | EGC: Plant-Sp                | pecific                                                                 |               | 3.0               | 3.0                       | 3.0        | 3.0     |  |

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|                   | Facility: CPS                    |                                                               |               |              | Printed: 08/11/200 |            |            |  |
|-------------------|----------------------------------|---------------------------------------------------------------|---------------|--------------|--------------------|------------|------------|--|
|                   | System Number:                   | 241000                                                        |               |              |                    |            |            |  |
|                   | System Name:                     | Reactor/Turbine Pressure Regulating                           | System        | NRC          | Imp                | Facili     | ty Imp     |  |
|                   |                                  | 5 5                                                           | CFR           | RO           | SRO                | RO         | SRO        |  |
| K4                | Knowledge of I<br>REGULATING     | REACTOR/TURBINE PRESSURE<br>G SYSTEM design feature(s) and/or | (41.7)        |              |                    |            |            |  |
| 17 4 6 1          | interlocks which                 | ch provide for the following:                                 |               | 2.0          | 2.0                | 2.0        | 2.0        |  |
| K4.01             | Reactor press                    | ure control                                                   |               | 3.8          | 5.8                | 3.8        | 3.8        |  |
| K4.02             | Turbine inlet                    | pressure control                                              |               | 3.3          | 3.5                | 3.3        | 3.3        |  |
| K4.03             | Turbine speed                    | l control                                                     |               | 3.0          | 3.1                | 3.0        | 3.1        |  |
| K4.04             | Turbine accel                    | eration control                                               |               | 2.8          | 2.8                | 2.8        | 2.8        |  |
| K4.05             | Reactor scram                    | 1                                                             |               | 3.7*         | 3.8*               | 3.7        | 3.8        |  |
| K4.06             | Turbine trip                     |                                                               |               | 3.6          | 3.7*               | 3.6        | 3.7        |  |
| K4.07             | Generator run                    | back: Plant-Specific                                          |               | 3.2          | 3.5                | 3.2        | 3.5        |  |
| K4.08             | Feedwater hea                    | ater isolation: Plant-Specific                                |               | 2.6          | 2.9                | 2.6        | 2.9        |  |
| K4.09             | Turbine chest                    | warming: EHC-Only                                             |               | 2.4          | 2.4                | 2.4        | 2.4        |  |
| K4.10             | Turbine shell                    | warming: EHC-Only                                             |               | 2.5          | 2.5                | 2.5        | 2.5        |  |
| K4.11             | Load following                   | <del>z: Plant-Specific</del>                                  |               | 2.6          | 2.6                | 2.6        | 2.6        |  |
| K4.12             | Recirculation f                  | low control: Plant-Specific                                   |               | 2.9          | 2.9                | 2.9        | 2.9        |  |
| K4.13             | Turbine trip te                  | esting: Plant-Specific                                        |               | 2.9          | 3.0                | 2.9        | 3.0        |  |
| K4.14             | Reactor/turbir<br>Plant-Specific | ne pressure regulating system oil cooling:                    |               | 2.2          | 2.4                | 2.2        | 2.4        |  |
| K4.15             | Automatic put                    | mp start                                                      |               | 2.6          | 2.6                | 2.6        | 2.6        |  |
| K4.16             | Reactor coold                    | own                                                           |               | 3.3          | 3.4                | 3.3        | 3.4        |  |
| K4.17             | Turbine monit                    | toring                                                        |               | 2.4          | 2.6                | 2.4        | 2.6        |  |
| K4.18             | Turbine prote                    | ction                                                         |               | 2.8          | 2.8                | 2.8        | 2.8        |  |
| 4.19              | Steam bypass                     | valve control                                                 |               | 3.6          | 3.7                | 3.6        | 3.7        |  |
| K5                | Knowledge of (                   | the operational Implications of the                           | (41.5 / 45.3) |              |                    |            |            |  |
|                   | following conce<br>REACTOR/TU    | epts as they apply to<br>JRBINE PRESSURE REGULATING           |               |              |                    |            |            |  |
| 12 6 0 1          | SYSTEM:                          |                                                               |               | <u>⊃ 0</u> ≠ | <b>∩ 1</b> ≢       | 2.0        | <b>.</b>   |  |
| K5.01             | Accumulator o                    | peration: Plant-Specific                                      |               | 2.0*         | ∠.1*<br>> >*       | 2.0        | 2.1        |  |
| K5.02             | Limit switch o                   | operation                                                     |               | 2.17         | 2.2*               | 2.1        | 2.2        |  |
| K3.03             | Reactor powe                     | r vs. reactor pressure                                        |               | 3.3<br>2.2   | 3.0<br>2.2         | <b>3</b> 2 | 3.0<br>2.2 |  |
| КЭ.04<br>И б. 0 б | Turbine inlet                    | pressure vs. reactor pressure                                 |               | 3.3<br>2.9   | 3.3                | 3.3<br>10  | 3.3<br>2.0 |  |
| K3.03             | Turbine inlet                    | pressure vs. turbine load                                     |               | 2.8          | 2.9                | ∠.o<br>ว ว | 2.9<br>7.2 |  |
| K 5,00            | I urbine speed                   | i measurement                                                 |               | 2.3          | 2.3                | 2.3        | 2.3        |  |
| K 5.07            | Unitized actua                   | tor-operation: Fermi-Only                                     |               | 2.5          | 3.0                | 2.5        | 5.0        |  |

K5.07 Unitized actuator operation: Fermi-Only

3

|       | Facility: CPS                                                                                                                                       |     |      | Printed: 08/11/2006 |               |       |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------------------|---------------|-------|--|
|       | System Number: 241000                                                                                                                               |     |      |                     |               |       |  |
|       | System Name: Reactor/Turbine Pressure Regulating System                                                                                             |     | NRC  | lmp                 | <u>Facili</u> | ty Ir |  |
|       |                                                                                                                                                     | CFR | RO   | SRO                 | RO            | S.    |  |
| K6    | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.'<br>following will have on the REACTOR/TURBINE<br>PRESSURE REGULATING SYSTEM: | 7)  |      |                     |               |       |  |
| K6.01 | A.C. electrical power                                                                                                                               |     | 2.8  | 2.9                 | 2.8           | 2.9   |  |
| K6.02 | D.C. electrical power                                                                                                                               |     | 2.6  | 2.7                 | 2.6           | 2.7   |  |
| K6.03 | Component cooling water systems                                                                                                                     |     | 2.5  | 2.5                 | 2.5           | 2.5   |  |
| K6.04 | Recirculation flow control system: Plant-Specific                                                                                                   |     | 3.0  | 3.0                 | 3.0           | 3.0   |  |
| K6.05 | Condenser vacuum                                                                                                                                    |     | 3.4  | 3.4                 | 3.4           | 3.4   |  |
| K6.06 | Reactor pressure                                                                                                                                    |     | 3.8* | 3.9*                | 3.8           | 3.9   |  |
| K6.07 | Turbine inlet pressure                                                                                                                              |     | 3.4  | 3.4                 | 3.4           | 3.4   |  |
| K6.08 | Reactor power                                                                                                                                       |     | 3.6  | 3.7                 | 3.6           | 3.7   |  |
| K6.09 | Main turbine steam flow                                                                                                                             |     | 3.1  | 3.1                 | 3.1           | 3.1   |  |
| K6.10 | Bypass valves                                                                                                                                       |     | 3.6  | 3.7                 | 3.6           | 3.7   |  |
| K6.11 | Main stop/throttle valves                                                                                                                           |     | 3.4  | 3.4                 | 3.4           | 3.4   |  |
| K6.12 | Control/governor valves                                                                                                                             |     | 3.3  | 3.4                 | 3.3           | 3.4   |  |
| K6.13 | Combined intermediate valves: Plant-Specific                                                                                                        |     | 3.1  | 3.2                 | 3.1           | 3.2   |  |
| K6.14 | Bearing oil                                                                                                                                         |     | 2.7  | 2.8                 | 2.7           | 2.8   |  |
| K6.15 | Turbine speed signal                                                                                                                                |     | 2.3  | 2.4                 | 2.3           | 2.4   |  |
| K6.16 | Stator water cooling system: Plant-Specific                                                                                                         |     | 2.9  | 3.1                 | 2.9           | 3.1   |  |
| K6.17 | Main turbine PMG: Plant-Specific                                                                                                                    |     | 2.7  | 2.8                 | 2.7           | 2.8   |  |
| K6.18 | Low pressure stop and control valves: Plant-Specific                                                                                                |     | 2.6  | 2.7                 | 2.6           | 2.7   |  |
| K6.19 | Primary water system: Plant-Specific                                                                                                                |     | 2.1* | 2.3*                | 2.1           | 2.3   |  |
| K6.20 | Main generator                                                                                                                                      |     | 2.8  | 3.0                 | 2.8           | 3     |  |

|       | Facility: CPS                                                                                                                                                |     |      | Printed: 08/11/200 |               |                |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------------------|---------------|----------------|--|
|       | System Number: 241000                                                                                                                                        |     |      |                    |               |                |  |
|       | System Name: Reactor/Turbine Pressure Regulating System                                                                                                      |     | NRC  | Imp                | <u>Facili</u> | ty I <u>mp</u> |  |
|       |                                                                                                                                                              | CFR | RO   | SRO                | RO            | SRO            |  |
| A1    | Ability to predict and/or monitor changes in parameters (41.5 / 45.)<br>associated with operating the REACTOR/TURBINE<br>PRESSURE REGULATING SYSTEM controls | 5)  |      |                    |               |                |  |
|       | including:                                                                                                                                                   |     |      |                    |               |                |  |
| A1.01 | Reactor pressure                                                                                                                                             |     | 3.9  | 3.8                | 3.9           | 3.8            |  |
| A1.02 | Reactor power                                                                                                                                                |     | 4.1* | 3.9                | 4.1           | 3.9            |  |
| A1.03 | Reactor water level                                                                                                                                          |     | 3.7  | 3.7                | 3.7           | 3.7            |  |
| A1.04 | Main turbine inlet pressure                                                                                                                                  |     | 3.1  | 3.1                | 3.1           | 3.1            |  |
| A1.05 | Reactor steam flow                                                                                                                                           |     | 3.5  | 3.6                | 3.5           | 3.6            |  |
| A1.06 | Main turbine steam flow                                                                                                                                      |     | 3.2  | 3.2                | 3.2           | 3.2            |  |
| A1.07 | Bypass valve position                                                                                                                                        |     | 3.8  | 3.7                | 3.8           | 3.7            |  |
| A1.08 | Control/governor valve position                                                                                                                              |     | 3.3  | 3.2                | 3.3           | 3.2            |  |
| A1.09 | Main stop throttle valve position                                                                                                                            |     | 3.3  | 3.3                | 3.3           | 3.3            |  |
| A1.10 | Combined intermediate valve position: Plant-Specific                                                                                                         |     | 3.3  | 3.2                | 3.3           | 3.2            |  |
| A1.11 | Reactor/turbine pressure regulating system oil pressure:<br>Plant-Specific                                                                                   |     | 2.7  | 2.7                | 2.7           | 2.7            |  |
| A1.12 | Reactor/turbine pressure regulating system load set/reference: Plant-Specific                                                                                |     | 2.9  | 2.8                | 2.9           | 2.8            |  |
| A1.13 | Main turbine speed                                                                                                                                           |     | 2.7  | 2.7                | 2.7           | 2.7            |  |
| A1.14 | Pressure setpoint/pressure demand                                                                                                                            |     | 3.4  | 3.4                | 3.4           | 3.4            |  |
| A1.15 | Maximum combined flow limit                                                                                                                                  |     | 3.1  | 3.1                | 3.1           | 3.1            |  |
| A1.16 | Load limit set: Plant-Specific                                                                                                                               |     | 3.3  | 3.3                | 3.3           | 3.3            |  |
| 41.17 | Reactor/turbine pressure regulating system oil pump<br>current: Plant-Specific                                                                               |     | 1.9* | 1.9*               | 1.9           | 1.9            |  |
| A1.18 | Reactor/turbine pressure regulating system reservoir oil level: Plant-Specific                                                                               |     | 2.1* | 2.0*               | 2.1           | 2.0            |  |
| A1.19 | Reactor/turbine pressure regulating system reservoir oil temperature: Plant-Specific                                                                         |     | 2.0* | 1.9*               | 2.0           | 1.9            |  |
| A1.20 | Servo valve currents: Plant-Specific                                                                                                                         |     | 2.2* | 2.1*               | 2.2           | 2.1            |  |
| A1.21 | Main condenser vacuum                                                                                                                                        |     | 3.4  | 3.4                | 3.4           | 3.4            |  |
| A1.22 | Reactor cooldown                                                                                                                                             |     | 3.4  | 3.3                | 3.4           | 3.3            |  |
| A1.23 | Main turbine vibration                                                                                                                                       |     | 2.8  | 2.8                | 2.8           | 2.8            |  |
| A1.24 | Main turbine eccentricity                                                                                                                                    |     | 2.6  | 2.7                | 2.6           | 2.7            |  |
| A1.25 | Main turbine expansion                                                                                                                                       |     | 2.6  | 2.6                | 2.6           | 2.6            |  |
| A1.26 | Governor valve limit: Plant-Specific                                                                                                                         |     | 2.4  | 2.4                | 2.4           | 2.4            |  |

|       | Facility: CPS                                                                                                   |      | Printed: 08/11/20 |        |       |  |
|-------|-----------------------------------------------------------------------------------------------------------------|------|-------------------|--------|-------|--|
|       | System Number: 241000                                                                                           |      |                   |        |       |  |
|       | System Name: Reactor/Turbine Pressure Regulating System                                                         | NRC  | Imp               | Facili | iv I- |  |
|       | CF                                                                                                              | R RO | SRO               | RO     |       |  |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / 45.6)<br>REACTOR/TURBINE PRESSURE REGULATING |      |                   |        |       |  |
|       | SYSTEM; and (b) based on those predictions, use                                                                 |      |                   |        |       |  |
|       | procedures to correct, control, or mitigate the                                                                 |      |                   |        |       |  |
|       | consequences of those abnormal conditions or operations:                                                        |      |                   |        |       |  |
| A2.01 | Loss of turbine inlet pressure signal                                                                           | 3.5  | 3.7               | 3.5    | 3.7   |  |
| A2.02 | High reactor pressure                                                                                           | 3.7  | 3.7               | 3.7    | 3.7   |  |
| A2.03 | Failed open/closed bypass valve(s)                                                                              | 4.1* | 4.2*              | 4.1    | 4.2   |  |
| A2.04 | Failed open/closed control/governor valve(s)                                                                    | 3.7  | 3.8               | 3.7    | 3.8   |  |
| A2.05 | Failed open/closed main stop valve(s)                                                                           | 3.8  | 3.9               | 3.8    | 3.9   |  |
| A2.06 | Low reactor/turbine pressure regulating system oil                                                              | 3.1  | 3.2               | 3.1    | 3.2   |  |
|       | pressure: Plant-Specific                                                                                        |      |                   |        |       |  |
| A2.07 | Loss of condenser vacuum                                                                                        | 3.7  | 3.6               | 3.7    | 3.6   |  |
| A2.08 | Main turbine overspeed                                                                                          | 3.3  | 3.3               | 3.3    | 3.3   |  |
| A2.09 | Loss of generator load                                                                                          | 3.4  | 3.5               | 3.4    | 3.5   |  |
| A2.10 | Loss of stator water cooling: Plant-Specific                                                                    | 3.1  | 3.2               | 3.1    | 3.2   |  |
| A2.11 | Loss of A.C. electrical power                                                                                   | 3.1  | 3.1               | 3.1    | 3.1   |  |
| A2.12 | Loss of D.C. electrical power                                                                                   | 2.7  | 2.8               | 2.7    | 2.8   |  |
| A2.13 | Loss of component cooling water systems                                                                         | 2.6  | 2.7               | 2.6    | 2.7   |  |
| A2.14 | Loss of main turbine PMG: Plant-Specific                                                                        | 2.7  | 2.7               | 2.7    | 2.7   |  |
| A2.15 | Loss of main turbine speed feedback: Plant-Specific                                                             | 2.4  | 2.4               | 2.4    | 2.4   |  |
| A2.16 | Low turbine inlet pressure (loss of pressure signal)                                                            | 3.4  | 3.4               | 3.4    | 3.4   |  |
| A2.17 | Turbine trip: Plant-Specific                                                                                    | 3.8  | 3.8               | 3.8    |       |  |
| A2.18 | Generator trip: Plant-Specific                                                                                  | 3.5  | 3.5               | 3.5    | 3.00  |  |
| A2.19 | Reactor scram                                                                                                   | 3.8  | 3.8               | 3.8    | 3.8   |  |
| A2.20 | Low reactor/turbine pressure regulating system oil level:                                                       | 2.5  | 2.6               | 2.5    | 2.6   |  |
|       | Plant-Specific                                                                                                  |      |                   |        |       |  |
| A2.21 | Reactor/turbine pressure regulating system pump trip:                                                           | 2.7  | 2.8               | 2.7    | 2.8   |  |
|       | Plant-Specific                                                                                                  |      |                   |        |       |  |
| A2.22 | Turbine high vibration                                                                                          | 2.8  | 2.9               | 2.8    | 2.9   |  |
| A2.23 | Turbine high eccentricity                                                                                       | 2.6  | 2.6               | 2.6    | 2.6   |  |
| A2.24 | Turbine high differential expansion                                                                             | 2.4  | 2.5               | 2.4    | 2.5   |  |
| A2.25 | Loss of primary water system: Plant-Specific                                                                    | 2.1  | 2.3               | 2.1    | 2.3   |  |

|        | Facility: CPS                                                                      |               |     |     | Printe     | d: 08/1       | 1/2006 |
|--------|------------------------------------------------------------------------------------|---------------|-----|-----|------------|---------------|--------|
|        | System Number: 241000                                                              |               |     |     |            |               |        |
|        | System Name: Reactor/Turbine Pressure Regulating System                            |               |     | NRC | <u>lmp</u> | <u>Facili</u> | ty Imp |
|        |                                                                                    |               | CFR | RO  | SRO        | RO            | SRO    |
| A3     | Ability to monitor automatic operations of the                                     | (41.7 / 45.7) |     |     |            |               |        |
|        | REACTOR/TURBINE PRESSURE REGULATING                                                |               |     |     |            |               |        |
|        | SYSTEM including:                                                                  |               |     |     |            |               |        |
| A3.01  | Turbine speed control: Plant-Specific                                              |               |     | 2.8 | 2.7        | 2.8           | 2.7    |
| A3.02  | Turbine acceleration control: Plant-Specific                                       |               |     | 2.6 | 2.6        | 2.6           | 2.6    |
| A3.03  | Turbine inlet pressure control                                                     |               |     | 2.8 | 2.7        | 2.8           | 2.7    |
| A3.04  | Reactor/turbine pressure regulating system pump start:                             |               |     | 2.5 | 2.5        | 2.5           | 2.5    |
|        | Plant-Specific                                                                     |               |     |     |            |               |        |
| A3.05  | Reactor/turbine pressure regulating system low pressure                            |               |     | 2.9 | 2.8        | 2.9           | 2.8    |
|        | turbine trip: Plant-Specific                                                       |               |     |     |            |               |        |
| A3.06  | Reactor/turbine pressure regulating system low pressure                            |               |     | 3.3 | 3.3        | 3.3           | 3.3    |
|        | reactor scram: Plant-Specific                                                      |               |     |     |            |               |        |
| A3.07  | Reactor/turbine pressure regulating system oil temperature control: Plant-Specific |               |     | 2.3 | 2.3        | 2.3           | 2.3    |
| A3.08  | Steam bypass valve operation                                                       |               |     | 3.8 | 3.8        | 3.8           | 3.8    |
| A3.09  | Control/governor valve operation                                                   |               |     | 3.3 | 3.2        | 3.3           | 3.2    |
| A3.10  | Main stop/throttle valve operation                                                 |               |     | 3.3 | 3.3        | 3.3           | 3.3    |
| A3.11  | Combined intermediate valve operation: Plant-Specific                              |               |     | 3.3 | 3.1        | 3.3           | 3.1    |
| A3.12  | Turbine trip testing                                                               |               |     | 2.9 | 2.9        | 2.9           | 2.9    |
| A3.13  | FW heater isolation: Plant-Specific                                                |               |     | 2.7 | 2.8        | 2.7           | 2.8    |
| A3.14  | Grid load following: Plant-Specific                                                |               |     | 2.6 | 2.7        | 2.6           | 2.7    |
| A3.15  | Recirculation pump flow control: Plant-Specific                                    |               |     | 2.8 | 2.9        | 2.8           | 2.9    |
| 13.16  | Lights and alarms                                                                  |               |     | 3.0 | 2.9        | 3.0           | 2.9    |
| -A3.17 | Turbine runback                                                                    |               |     | 3.3 | 3.4        | 3.3           | 3.4    |
| A3.18  | Turbine startup: Plant-Specific                                                    |               |     | 3.0 | 3.0        | 3.0           | 3.0    |
Facility:

CPS

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|       | System Number:          | 241000                                                |               |      |      |            |            |
|-------|-------------------------|-------------------------------------------------------|---------------|------|------|------------|------------|
|       | System Name:            | Reactor/Turbine Pressure Regulating System            |               | NRC  | Imp  | Facility I |            |
|       |                         |                                                       | CFR           | RO   | SRO  | RO         | <b>S</b> . |
| A4    | Ability to man<br>room: | ually operate and/or monitor in the control (41.7 / 4 | 45.5 to 45.8) |      |      |            |            |
| A4.01 | Reactor powe            | r                                                     |               | 3.9  | 4.0  | 3.9        | 4.0        |
| A4.02 | Reactor press           | ıre                                                   |               | 4.1* | 4.1* | 4.1        | 4.1        |
| A4.03 | Reactor water           | level                                                 |               | 3.8* | 3.9  | 3.8        | 3.9        |
| A4.04 | Reactor steam           | flow                                                  |               | 3.6  | 3.7  | 3.6        | 3.7        |
| A4.05 | Main turbine s          | steam flow                                            |               | 3.3  | 3.3  | 3.3        | 3.3        |
| A4.06 | Bypass valves           | (operation)                                           |               | 3.9  | 3.9  | 3.9        | 3.9        |
| A4.07 | Main stop/thre          | ottle valves (operation)                              |               | 3.5  | 3.4  | 3.5        | 3.4        |
| A4.08 | Control/gover           | nor valves (operation)                                |               | 3.5  | 3.4  | 3.5        | 3.4        |
| A4.09 | Combined into           | ermediate valves (operation): Plant-Specific          |               | 3.2  | 3.1  | 3.2        | 3.1        |
| A4.10 | Reactor/turbin          | e pressure regulating system pumps:                   |               | 2.9  | 2.9  | 2.9        | 2.9        |
|       | Plant-Specific          |                                                       |               |      |      |            |            |
| A4.11 | Turbine speed           |                                                       |               | 3.1  | 3.1  | 3.1        | 3.1        |
| A4.12 | Turbine accel           | eration                                               |               | 3.0  | 3.0  | 3.0        | 3.0        |
| A4.13 | Turbine inlet j         | pressure                                              |               | 2.9  | 2.9  | 2.9        | 2.9        |
| A4.14 | Turbine trip            |                                                       |               | 3.8  | 3.7  | 3.8        | 3.7        |
| A4.15 | Generator load          | d                                                     |               | 3.2  | 3.2  | 3.2        | 3.2        |
| A4.16 | Lights and ala          | rms                                                   |               | 3.3  | 3.2  | 3.3        | 3.2        |
| A4.17 | Turbine chest           | warming: Plant-Specific                               |               | 2.9  | 2.8  | 2.9        | 2.8        |
| A4.18 | Turbine shell           | warming: Plant-Specific                               |               | 2.9  | 2.8  | 2.9        | 2.8        |
| A4.19 | Turbine panel           | controls                                              |               | 3.5  | 3.4  | 3.5        | 3.4        |
|       |                         |                                                       |               |      |      |            |            |

| Printed: | 08/11/2006 |
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|          |            |

System Number: 245000

Facility: CPS

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|       | System Name: Main Turbine Generator and Auxiliary Systems                                                                                   |                                  | <u>NRC Imp</u> |      | Facility Imp |     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|------|--------------|-----|
|       |                                                                                                                                             | CFR                              | RO             | SRO  | RO           | SRO |
| K1    | Knowledge of the physical connections and/or cause-<br>effect relationships between MAIN TURBINE<br>GENERATOR AND AUXILIARY SYSTEMS and the | (41.2 to 41.9 / 45.7 to<br>45.8) |                |      |              |     |
|       | following:                                                                                                                                  |                                  |                |      |              |     |
| K1.01 | A.C. electrical distribution                                                                                                                |                                  | 3.2            | 3.3  | 3.2          | 3.3 |
| K1.02 | Condensate system                                                                                                                           |                                  | 2.5            | 2.5  | 2.5          | 2.5 |
| K1.03 | Main steam system                                                                                                                           |                                  | 3.2            | 3.3  | 3.2          | 3.3 |
| K1.04 | Reactor protection system                                                                                                                   |                                  | 3.6            | 3.7  | 3.6          | 3.7 |
| K1.05 | Extraction steam system                                                                                                                     |                                  | 2.7            | 2.7  | 2.7          | 2.7 |
| K1.06 | Component cooling water systems                                                                                                             |                                  | 2.6            | 2.6  | 2.6          | 2.6 |
| K1.07 | Plant air systems                                                                                                                           |                                  | 2.5            | 2.5  | 2.5          | 2.5 |
| K1.08 | Reactor/turbine pressure control system: Plant-Specific                                                                                     |                                  | 3.4            | 3.5  | 3.4          | 3.5 |
| K1.09 | D.C. electrical distribution                                                                                                                |                                  | 2.7            | 2.7  | 2.7          | 2.7 |
| K2    | Knowledge of electrical power supplies to the following:                                                                                    | (41.7)                           |                |      |              |     |
| K2.01 | Stator water cooling pumps: Plant-Specific                                                                                                  |                                  | 2.4*           | 2.4  | 2.4          | 2.4 |
| K2.02 | Main lubricating oil pumps                                                                                                                  |                                  | 2.3*           | 2.4* | 2.3          | 2.4 |
| K2.03 | Amplidyne: Plant-Specific                                                                                                                   |                                  | 1.7*           | 1.8* | 1.7          | 1.8 |
| K2.04 | Hydrogen seal oil pumps                                                                                                                     |                                  | 2.3*           | 2.3* | 2.3          | 2.3 |
| K2.05 | Air seal oil pumps: Plant Specific                                                                                                          |                                  | 1.7*           | 1.7* | 1.7          | 1.7 |
| K2.06 | Turbine supervisory instrumentation                                                                                                         |                                  | 2.3            | 2.5  | 2.3          | 2.5 |
| -     | 1/                                                                                                                                          |                                  |                |      |              |     |
| KJ    | MAIN TURBINE GENERATOR AND AUXILIARY                                                                                                        | (41.7745.4)                      |                |      |              |     |
| K3.01 | A.C. electrical distribution                                                                                                                |                                  | 3.4            | 3.7  | 3.4          | 3.7 |
| K3.02 | Reactor pressure                                                                                                                            |                                  | 3.9            | 4.0  | 3.9          | 4.0 |
| K3.03 | Reactor power                                                                                                                               |                                  | 3.9            | 4.0  | 3.9          | 4.0 |
| K3.04 | Reactor feedwater system (feedwater heaters)                                                                                                |                                  | 3.3            | 3.5  | 3.3          | 3.5 |
| K3.05 | Reactor feedwater pump: Plant-Specific                                                                                                      |                                  | 2.7            | 2.8  | 2.7          | 2.8 |
| K3.06 | Condensate system                                                                                                                           |                                  | 2.5            | 2.5  | 2.5          | 2.5 |
| K3.07 | Reactor protection system                                                                                                                   |                                  | 3.6            | 3.7  | 3.6          | 3.7 |
| K3.08 | Reactor/turbine pressure control system: Plant-Specific                                                                                     |                                  | 3.7            | 3.8  | 3.7          | 3.8 |

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| Svetam | Number | 24500 |
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Facility:

|        | System Number:                                  | 245000                                                                                               |               |    |      |      |        |      |
|--------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|----|------|------|--------|------|
|        | System Name:                                    | Main Turbine Generator and Auxiliary                                                                 | Systems       |    | NRC  | Imp  | Facili | tv I |
|        | <u></u>                                         |                                                                                                      | 0             | FR | RO   | SRO  | RO     | 5    |
| K4     | Knowledge of I<br>AUXILIARY S                   | MAIN TURBINE GENERATOR AND<br>SYSTEMS design feature(s) and/or                                       | (41.7)        |    |      |      |        |      |
| K4 01  | Rearing lubric                                  | cation                                                                                               |               |    | 2.4  | 2.5  | 2.4    | 2.5  |
| K4.07  | Generator coo                                   | ling                                                                                                 |               |    | 2.4  | 2.5  | 2.4    | 2.5  |
| K4.03  | Sealing to pre                                  | vent hydrogen leakage                                                                                |               |    | 2.7  | 2.8  | 2.7    | 2.8  |
| K4 04  | Hydrogen coo                                    | ling                                                                                                 |               |    | 2.4  | 2.5  | 2.4    | 2.5  |
| K4 05  | Turbine prote                                   | ction                                                                                                |               |    | 2.9  | 3.0  | 2.9    | 3.0  |
| K4.06  | Generator prot                                  | tection                                                                                              |               |    | 2.7  | 2.8  | 2.7    | 2.8  |
| K4 07  | Generator vol                                   | tage regulation                                                                                      |               |    | 2.5  | 2.6  | 2.5    | 2.6  |
| K4.08  | Moisture rem                                    | oval from turbine steam                                                                              |               |    | 2.4  | 2.4  | 2.4    | 2.4  |
| K4.09  | Turbine contro                                  | ol                                                                                                   |               |    | 3.1  | 3.2  | 3.1    | 3.2  |
| K4.10  | Extraction ste                                  | am                                                                                                   |               |    | 2.6  | 2.7  | 2.6    | 2.7  |
| K5     | Knowledge of t<br>following conc                | the operational implications of the<br>epts as they apply to MAIN TURBINE                            | (41.5 / 45.3) |    |      |      |        |      |
| K5 01  | Heat exchange                                   | and AUAILIANT SISTEMS:                                                                               |               |    | 23*  | 23*  | 23     | 23   |
| K5.02  | Turbine opera                                   | tion and limitations                                                                                 |               |    | 2.8  | 31   | 2.5    | 31   |
| K5.02  | Hydraulically                                   | operated valve operation                                                                             |               |    | 2.0  | 2.6  | 2.6    | 2.6  |
| K5.05  | Turbine speed                                   | I measurement                                                                                        |               |    | 1.9* | 2.0* | 19     | 2.0  |
| K5.05  | Relief valve o                                  | meration                                                                                             |               |    | 2.4  | 2.4  | 2.4    | 2.0  |
| K 5 06 | Turbine shaft                                   | sealing                                                                                              |               |    | 2.5  | 2.6  | 2.5    | 2 17 |
| K5.00  | Generator one                                   | erations and limitations                                                                             |               |    | 2.6  | 2.9  | 2.6    | 2.9  |
| K5.08  | Generator coo                                   | bling                                                                                                |               |    | 2.4  | 2.6  | 2.4    | 2.6  |
| K6     | Knowledge of (<br>following will l<br>GENERATOR | the effect that a loss or malfunction of the<br>have on the MAIN TURBINE<br>& AND AUXILIARY SYSTEMS: | (41.7 / 45.7) |    |      |      |        |      |
| K6.01  | Gland seal                                      |                                                                                                      |               |    | 2.8  | 2.9  | 2.8    | 2.9  |
| K6.02  | Reactor/turbit                                  | ne pressure control system: Plant-Specific                                                           |               |    | 3.5  | 3.7  | 3.5    | 3.7  |
| K6.03  | Hydrogen sea                                    | l oil                                                                                                |               |    | 2.8  | 3.1  | 2.8    | 3.1  |
| K6 04  | Hydrogen coo                                    | bling                                                                                                |               |    | 2.6* | 2.7  | 2.6    | 2.7  |
| K6 05  | Stator water of                                 | cooling                                                                                              |               |    | 2.9  | 2.9  | 2.9    | 2.9  |
| K6.06  | Electrical dist                                 | ribution                                                                                             |               |    | 3.0  | 3.2  | 3.0    | 3.2  |
| K6.07  | Extraction ste                                  | am                                                                                                   |               |    | 2.4  | 2.5  | 2.4    | 2.5  |
| K6.08  | Main steam                                      |                                                                                                      |               |    | 3.0  | 3.1  | 3.0    | 3.1  |
| K6.09  | Voltage regul                                   | ation                                                                                                |               |    | 2.3* | 2.5* | 2.3    | 2.5  |
| K6.10  | Lube oil syste                                  | em                                                                                                   |               |    | 2.8* | 2.9  | 2.8    | 2.9  |

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|        | Facility: CPS                                   |                                                                                                                   |               |     | d: 0 <b>8</b> /1 | 1/2006     |               |            |
|--------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------|-----|------------------|------------|---------------|------------|
|        | System Number:                                  | 245000                                                                                                            |               |     |                  |            |               |            |
|        | System Name:                                    | Main Turbine Generator and Auxiliary S                                                                            | Systems       |     | NRC              | lmp        | <u>Facili</u> | ty Imp     |
| ~      |                                                 | ·                                                                                                                 | •             | CFR | RO               | SRO        | RO            | SRO        |
| A1     | Ability to pred<br>associated with<br>GENERATOR | ict and/or monitor changes in parameters<br>operating the MAIN TURBINE<br>AND AUXILIARY SYSTEMS controls          | (41.5 / 45.5) |     |                  |            |               |            |
|        | including:                                      |                                                                                                                   |               |     |                  |            |               |            |
| A1.01  | Generator me                                    | gawatts                                                                                                           |               |     | 2.7              | 2.7        | 2.7           | 2.7        |
| A1.02  | Turbine speed                                   | 1                                                                                                                 |               |     | 2.6              | 2.5        | 2.6           | 2.5        |
| A1.03  | Turbine valve                                   | position                                                                                                          |               |     | 2.7              | 2.7        | 2.7           | 2.7        |
| A1.04  | Steam flow                                      |                                                                                                                   |               |     | 2.7              | 2.8        | 2.7           | 2.8        |
| A1.05  | Reactor press                                   | ure                                                                                                               |               |     | 3.5              | 3.4        | 3.5           | 3.4        |
| A1.06  | Condenser va                                    | cuum                                                                                                              |               |     | 3.3              | 3.2        | 3.3           | 3.2        |
| A1.07  | First stage tur                                 | bine pressure                                                                                                     |               |     | 2.8              | 2.8        | 2.8           | 2.8        |
| A1.08  | Generator out                                   | put voltage/reactive load                                                                                         |               |     | 2.5*             | 2.7        | 2.5           | 2.7        |
| A2     | Ability to (a) p<br>MAIN TURBI<br>SYSTEMS; an   | redict the impacts of the following on the<br>NE GENERATOR AND AUXILIARY<br>d (b) based on those predictions, use | (41.5 / 45.6) |     |                  |            |               |            |
|        | procedures to                                   | correct, control, or miligate the                                                                                 |               |     |                  |            |               |            |
| 1201   | consequences (                                  | of those adnormal conditions or operations:                                                                       |               |     | 37               | 3.0        | 37            | 39         |
| A2.01  | I urbine trip                                   | 2                                                                                                                 |               |     | 2.7              | 3.9        | 3.7           | 3.5        |
| A2.02  | Loss of lube of                                 | 011                                                                                                               |               |     | 3.5              | 3.5        | 2.5           | 3.5        |
| A2.03  | Loss of conde                                   | enser vacuum                                                                                                      |               |     | 3.5              | 2.0        | 3.J<br>7 7    | 2.0        |
| 42.04  | Reactor scran                                   | 1                                                                                                                 |               |     | 3.7              | 3.0        | 3.1           | 3.6<br>2.0 |
| -A2.05 | Generator trip                                  |                                                                                                                   |               |     | 5.0              | 2.0<br>2.1 | 3.0           | <b>J.0</b> |
| A2.06  | Loss of extrac                                  | ction steam                                                                                                       |               |     | 2.9              | 3.1<br>2.0 | 2.9           | 3.1        |
| A2.07  | Loss of reactor<br>Plant-Specific               | or/furbine pressure control system:                                                                               |               |     | 3.8              | 3.9        | 5.8           | 5.9        |
| A2.08  | Turbine rotor                                   | bow                                                                                                               |               |     | 2.3              | 2.6        | 2.3           | 2.6        |
| A2.09  | Turbine vibra                                   | tion                                                                                                              |               |     | 2.5              | 2.8        | 2.5           | 2.8        |
| A3     | Ability to mon<br>TURBINE GE<br>including:      | itor automatic operations of the MAIN<br>ENERATOR AND AUXILIARY SYSTEMS                                           | (41.7 / 45.7) | )   |                  |            |               |            |
| A3.01  | Turbine trip                                    |                                                                                                                   |               |     | 3.6              | 3.6        | 3.6           | 3.6        |
| A3.02  | Turbine roll t                                  | o rated speed                                                                                                     |               |     | 2.8              | 2.8        | 2.8           | 2.8        |
| A3.03  | Generator me                                    | eawatt output                                                                                                     |               |     | 2.8              | 2.9        | 2.8           | 2.9        |
| A3.04  | Turbine spee                                    | d                                                                                                                 |               |     | 2.7*             | 2.8        | 2.7           | 2.8        |
| A3.05  | Control valve                                   | operation                                                                                                         |               |     | 3.0              | 3.1        | 3.0           | 3.1        |
| A3.06  | Turbine lube                                    | oil pressure                                                                                                      |               |     | 2.5              | 2.6        | 2.5           | 2.6        |
| A3.07  | Hydrogen sez                                    | l oj] pressure                                                                                                    |               |     | 2.5              | 2.6        | 2.5           | 2.6        |
| A3.08  | Hydrogen ga                                     | s pressure                                                                                                        |               |     | 2.5              | 2.6        | 2.5           | 2.6        |
| A3 09  | Hydrogen ga                                     | stemperature                                                                                                      |               |     | 2.4              | 2.5        | 2.4           | 2.5        |
| A3 10  | Generator ou                                    | tnut voltage/reactive load                                                                                        |               |     | 2.5              | 2.6        | 2.5           | 2.6        |
| A3 11  | Generator po                                    | wer factor: Plant-Specific                                                                                        |               |     | 1.8*             | 2.1*       | 1.8           | 2.1        |
| A3.12  | Automatic tu                                    | rbine control: Plant-Specific                                                                                     |               |     | 3.3              | 3.5        | 3.3           | 3.5        |
|        |                                                 | •                                                                                                                 |               |     |                  |            |               |            |

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|       | Facility: CPS                                                                            |      |      | .d: 08/1   | 1/2006 |
|-------|------------------------------------------------------------------------------------------|------|------|------------|--------|
|       | System Number: 245000                                                                    |      |      |            |        |
|       | System Name: Main Turbine Generator and Auxiliary Systems                                |      | Imp  | Facility J |        |
|       | CFR                                                                                      | RO   | SRO  | RO         | Sico   |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room: |      |      |            |        |
| A4.01 | Turbine lube oil pumps                                                                   | 2.7  | 2.7  | 2.7        | 2.7    |
| A4.02 | Generator controls                                                                       | 3.1  | 2.9  | 3.1        | 2.9    |
| A4.03 | Stator water cooling pumps: Plant-Specific                                               | 2.7  | 2.8  | 2.7        | 2.8    |
| A4.04 | Hydrogen seal oil pumps                                                                  | 2.7  | 2.7  | 2.7        | 2.7    |
| A4.05 | Generator megawatt output                                                                | 2.7  | 2.7  | 2.7        | 2.7    |
| A4.06 | Turbine speed                                                                            | 2.7  | 2.6  | 2.7        | 2.6    |
| A4.07 | Turbine valve position                                                                   | 2.9  | 2.9  | 2.9        | 2.9    |
| A4.08 | Turbine oil pressure                                                                     | 2.7  | 2.0  | 2.7        | 2.0    |
| A4.09 | Hydrogen seal oil pressure                                                               | 2.6  | 2.6  | 2.6        | 2.6    |
| A4.10 | Hydrogen gas pressure                                                                    | 2.6  | 2.6  | 2.6        | 2.6    |
| A4.11 | Hydrogen gas temperature                                                                 | 2.4  | 2.4* | 2.4        | 2.4    |
| A4.12 | Generator output voltage                                                                 | 2.6  | 2.6  | 2.6        | 2.6    |
| A4.13 | Generator power factor: Plant-Specific                                                   | 1.9* | 2.1* | 1.9        | 2.1    |
| A4.14 | Generator megavar output                                                                 | 2.5  | 2.5  | 2.5        | 2.5    |

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|                  | Facility: CPS                                                                                                                                                  |      | Printe     | ed: 08/1      | 1/2006        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|---------------|---------------|
|                  | System Number: 256000                                                                                                                                          |      |            |               |               |
|                  | System Name: Reactor Condensate System                                                                                                                         | NRC  | <u>Imp</u> | <u>Facili</u> | <u>ty 1mp</u> |
| 1 - <sup>1</sup> | CFR                                                                                                                                                            | RO   | SRO        | RO            | SRO           |
| <b>K</b> 1       | Knowledge of the physical connections and/or cause- (41.2 to 41.9 / 45.7<br>effect relationships between REACTOR CONDENSATE 45.8)<br>SYSTEM and the following: | ' to |            |               |               |
| K1.01            | Main turbine                                                                                                                                                   | 2.6  | 2.6        | 2.6           | 2.6           |
| K1.02            | Reactor feedwater system                                                                                                                                       | 3.3  | 3.3        | 3.3           | 3.3           |
| K1.03            | HPC1: Plant-Specific                                                                                                                                           | 3.5  | 3.5        | 3.5           | 3.5           |
| K1.04            | RCIC: Plant-Specific                                                                                                                                           | 3.2  | 3.3        | 3.2           | 3.3           |
| K1.05            | CRD hydraulics system                                                                                                                                          | 3.1  | 3.1        | 3.1           | 3.1           |
| K1.06            | Extraction steam system                                                                                                                                        | 2.7  | 2.7        | 2.7           | 2.7           |
| K1.07            | SJAE condenser                                                                                                                                                 | 2.9  | 2.9        | 2.9           | 2.9           |
| K1.08            | Gland seal steam condenser: Plant-Specific                                                                                                                     | 2.7  | 2.7        | 2.7           | 2.7           |
| K1.09            | Offgas condenser: Plant-Specific                                                                                                                               | 2.9  | 3.0        | 2.9           | 3.0           |
| K1.10            | Exhaust hood spray system                                                                                                                                      | 2.4  | 2.5        | 2.4           | 2.5           |
| K1.11            | Plant air systems: Plant-Specific                                                                                                                              | 2.4  | 2.5        | 2.4           | 2.5           |
| K1.12            | Isolation condenser: Plant-Specific                                                                                                                            | 3.3* | 3.3*       | 3.3           | 3.3           |
| K1.13            | Reactor water level                                                                                                                                            | 3.5  | 3.5        | 3.5           | 3.5           |
| K1.14            | RHR (LPCI): Plant Specific                                                                                                                                     | 3.0  | 3.0        | 3.0           | 3.0           |
| K1.15            | HPCS: Plant-Specific                                                                                                                                           | 3.6  | 3.6        | 3.6           | 3.6           |
| K1.16            | RWCU                                                                                                                                                           | 2.6  | 2.6        | 2.6           | 2.6           |
| K1.17            | ECCS keep fill system: Plant Specific                                                                                                                          | 2.9* | 2.9        | 2.9           | 2.9           |
| K1.18            | Circulating water system                                                                                                                                       | 2.9  | 3.0        | 2.9           | 3.0           |
| K1.19            | Component cooling water (secondary equipment) systems:<br>Plant-Specific                                                                                       | 2.7  | 2.7        | 2.7           | 2.7           |
| ₩K1.20           | Demineralized water storage and makeup system                                                                                                                  | 2.5  | 2.6        | 2.5           | 2.6           |
| K1.21            | Steam seal evaporator: Plant-Specific                                                                                                                          | 2.4  | 2.4        | 2.4           | 2.4           |
| K1.22            | Offgas system                                                                                                                                                  | 2.8  | 2.8        | 2.8           | 2.8           |
| K1.23            | Auxiliary steam system: Plant-Specific                                                                                                                         | 2.5  | 2.5        | 2.5           | 2.5           |
| K1.24            | Radwaste system: Plant-Specific                                                                                                                                | 2.4  | 2.4        | 2.4           | 2.4           |
| K1.25            | Main steam system: Plant-Specific                                                                                                                              | 3.0  | 3.1        | 3.0           | 3.1           |

| K2    | Knowledge of electrical power supplies to the following: | (41.7) |      |      |     |     |
|-------|----------------------------------------------------------|--------|------|------|-----|-----|
| K2.01 | System pumps                                             |        | 2.7* | 2.8  | 2.7 | 2.8 |
| K2.02 | Motor operated valves                                    |        | 1.9* | 2.0* | 1.9 | 2.0 |

|        | Facility: CPS                                    |                                                                                   |               |    |      | Printe | d: 08/1       | 1/2006 |
|--------|--------------------------------------------------|-----------------------------------------------------------------------------------|---------------|----|------|--------|---------------|--------|
|        | <u>System Number:</u>                            | 256000                                                                            |               |    |      |        |               |        |
|        | System Name:                                     | <b>Reactor Condensate System</b>                                                  |               |    | NRC  | lmp    | <u>Facili</u> | ty I   |
|        |                                                  |                                                                                   | C             | FR | RO   | SRO    | RO            | £.     |
| К3     | Knowledge of t<br>REACTOR CC                     | he effect that a loss or malfunction of the<br>ONDENSATE SYSTEM will have on      | (41.7 / 45.4) |    |      |        |               |        |
| K 2 01 | 10110wing:<br>Main turbine/r                     | main generator                                                                    |               |    | 32   | 32     | 32            | 32     |
| K3 02  | CRD bydrauli                                     | nam generator                                                                     |               |    | 3.2  | 33     | 3.2           | 33     |
| K3.02  | Extraction stee                                  | am system                                                                         |               |    | 2.6  | 2.6    | 2.6           | 2.6    |
| K 3 04 | Reactor feedw                                    | an system                                                                         |               |    | 3.6  | 3.7    | 3.6           | 3.7    |
| K 3 05 | HPCI Plant-Sr                                    | weifie                                                                            |               |    | 3.3  | 3.3    | 3.3           | 3.3    |
| K 3 06 | RCIC: Plant-S                                    |                                                                                   |               |    | 3.2  | 3.2    | 3.2           | 3.2    |
| K 3 07 | Isolation conde                                  | peerie<br>meer: Plant-Specific                                                    |               |    | 3.0* | 3.0*   | 3.0           | 3.0    |
| K3 08  | SIAF                                             |                                                                                   |               |    | 2.8  | 2.8    | 2.8           | 2.8    |
| K3 09  | Offgas                                           |                                                                                   |               |    | 2.8  | 2.8    | 2.8           | 2.8    |
| K3 10  | Gland seal ster                                  | am system: Plant-Specific                                                         |               |    | 2.5  | 2.5    | 2.5           | 2.5    |
| K3 11  | Reactor water                                    | level                                                                             |               |    | 3.9  | 3.9    | 3.9           | 3.9    |
| K3 12  | HPCS: Plant-S                                    | Specific                                                                          |               |    | 3.3  | 3.3    | 3.3           | 3.3    |
| K3.13  | Main steam sy                                    | stem                                                                              |               |    | 3.3  | 3.3    | 3.3           | 3.3    |
| K4     | Knowledge of F<br>design feature(:<br>following: | REACTOR CONDENSATE SYSTEM<br>s) and/or interlocks which provide for the           | (41.7)        |    |      |        |               |        |
| K4.01  | Condensate and                                   | d/or booster pump auto start: Plant-Specific                                      |               |    | 3.4  | 3.4    | 3.4           | 3.4    |
| K4.02  | CRD pump su                                      | ction                                                                             |               |    | 2.9  | 2.9    | 2.9           |        |
| K4.03  | Condensate an                                    | nd/or booster pump protection                                                     |               |    | 2.8  | 2.8    | 2.8           | 67-    |
| K4.04  | Maintenance of                                   | of water quality                                                                  |               |    | 2.7  | 2.7    | 2.7           | 2.7    |
| K4.05  | Maintenance of<br>isolates: Plant-               | of 100% system flow if a feedwater string<br>-Specific                            |               |    | 3.0  | 3.0    | 3.0           | 3.0    |
| K4.06  | Control of ext                                   | raction steam                                                                     |               |    | 2.8  | 2.8    | 2.8           | 2.8    |
| K4.07  | Cascading hea                                    | ter drains                                                                        |               |    | 2.4  | 2.4    | 2.4           | 2.4    |
| K4,08  | Dedicated ECC                                    | S water supply: Plant Specific                                                    |               |    | 3.6  | 3.6    | 3.6           | 3.6    |
| K4.09  | Initial main co                                  | ondenser vacuum                                                                   |               |    | 2.8  | 2.8    | 2.8           | 2.8    |
| K4.10  | Non-condensa                                     | ible gas removal                                                                  |               |    | 2.7  | 2.7    | 2.7           | 2.7    |
| K4.11  | Isolation of SJ                                  | IAE's on low flow: Plant-Specific                                                 |               |    | 2.9  | 3.0    | 2.9           | 3.0    |
| К5     | Knowledge of t<br>following conce<br>CONDENSAT   | the operational implications of the<br>epts as they apply to REACTOR<br>E SYSTEM: | (41.5 / 45.3) |    |      |        |               |        |
| K5.01  | System ventin                                    |                                                                                   |               |    | 2.5  | 2.5    | 2.5           | 2.5    |
| K5.02  | Water conduct                                    | tivity measurement                                                                |               |    | 2.4* | 2.4    | 2.4           | 2.4    |
| K5 03  | Heat exchange                                    | er level operation                                                                |               |    | 2.6  | 2.7    | 2.6           | 2.7    |
| K5.04  | Ion exchange                                     | process                                                                           |               |    | 2.1* | 2.1*   | 2.1           | 2.1    |
| K5.05  | Deaeration of                                    | condensate                                                                        |               |    | 2.2* | 2.2    | 2.2           | 2.2    |
| K5.06  | Air operated v                                   | valve operation                                                                   |               |    | 2.4  | 2.4    | 2.4           | 2.4    |
| K5.07  | Level controll                                   | er operation                                                                      |               |    | 2.7  | 2.7    | 2.7           | 2.7    |
| K5.08  | Heat removal                                     | (transfer) mechanisms                                                             |               |    | 2.6  | 2.7    | 2.6           | 2.7    |
| K5.09  | Pump cavitati                                    | on                                                                                |               |    | 2.5  | 2.6    | 2.5           | 24     |
| K5.10  | Air ejection of                                  | peration                                                                          |               |    | 2.8  | 2.8    | 2.8           |        |
|        | 2                                                | •                                                                                 |               |    |      |        |               |        |

| System | Number: | 2560 |
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Facility:

|          | System Number: 256000                                                                                                                    |                  |     |      |     |               |        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------|-----|---------------|--------|
|          | System Name: Reactor Condensate System                                                                                                   |                  |     | NRC  | lmp | <u>Facili</u> | ty Imp |
| S        |                                                                                                                                          |                  | CFR | RO   | SRO | RO            | SRO    |
| K6       | Knowledge of the effect that a loss or malfunction of the<br>following will have on the REACTOR CONDENSATE<br>SYSTEM:                    | e (41.7 / 45.7)  |     |      |     |               |        |
| K6.01    | Plant air systems                                                                                                                        |                  |     | 2.8  | 2.8 | 2.8           | 2.8    |
| K6.02    | Circulating water system                                                                                                                 |                  |     | 3.1  | 3.1 | 3.1           | 3.1    |
| K6.03    | Extraction steam system                                                                                                                  |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| K6.04    | A.C. power                                                                                                                               |                  |     | 2.8  | 2.8 | 2.8           | 2.8    |
| K6.05    | Component cooling water systems                                                                                                          |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| K6.06    | Reactor feedwater system                                                                                                                 |                  |     | 3.3  | 3.3 | 3.3           | 3.3    |
| K6.07    | Demineralized water storage and makeup system                                                                                            |                  |     | 2.4  | 2.4 | 2.4           | 2.4    |
| K6.08    | Main turbine                                                                                                                             |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| K6.09    | Offgas system                                                                                                                            |                  |     | 2.6  | 2.6 | 2.6           | 2.6    |
| K6.10    | Main steam system                                                                                                                        |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| Al       | Ability to predict and/or monitor changes in parameter<br>associated with operating the REACTOR<br>CONDENSATE SYSTEM controls including: | rs (41.5 / 45.5) |     |      |     |               |        |
| A1.01    | System flow                                                                                                                              |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| A1.02    | Pump amps                                                                                                                                |                  |     | 2.3* | 2.3 | 2.3           | 2.3    |
| A1.03    | System pressure                                                                                                                          |                  |     | 2.8  | 2.8 | 2.8           | 2.8    |
| A1.04    | Hotwell level                                                                                                                            |                  |     | 2.9  | 2.9 | 2.9           | 2.9    |
| 41.05    | Condensate storage tank level                                                                                                            |                  |     | 2.9  | 3.0 | 2.9           | 3.0    |
| <u> </u> | Reactor water level                                                                                                                      |                  |     | 3.5  | 3.5 | 3.5           | 3.5    |
| A1.07    | System lineup                                                                                                                            |                  |     | 3.1  | 31  | 3.1           | 31     |
| A1.08    | System water quality                                                                                                                     |                  |     | 2.7  | 2.9 | 2.7           | 2.9    |
| A1.09    | Feedwater temperature                                                                                                                    |                  |     | 3.1  | 3.1 | 3.1           | 3.1    |
| A1.10    | Condenser vacuum                                                                                                                         |                  |     | 3.1  | 3.1 | 3.1           | 3.1    |
|          |                                                                                                                                          |                  |     |      |     |               |        |

|        | Facility: CP                                                    | 2S                                                                                                                                                                               |               |            | Printe | d: 08/1   | 1/2006           |
|--------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|--------|-----------|------------------|
|        | System Number:                                                  | 256000                                                                                                                                                                           |               |            |        |           |                  |
|        | System Name                                                     | Reactor Condensate System                                                                                                                                                        |               | NRC        | Imn    | Facili    | tv T             |
|        | System Funct                                                    |                                                                                                                                                                                  | CFR           | RO         | SRO    | RO        | <u>با</u><br>د ب |
| A2     | Ability to (a)<br>REACTOR C<br>those predicti<br>mitigate the c | predict the impacts of the following on the<br>CONDENSATE SYSTEM; and (b) based on<br>ons, use procedures to correct, control, or<br>onsequences of those abnormal conditions or | (41.5 / 45.6) |            |        |           |                  |
| A 2 01 | Dump trips                                                      |                                                                                                                                                                                  |               | 33         | 3 3    | 33        | 33               |
| A2.01  | Pump ups                                                        |                                                                                                                                                                                  |               | 3.5<br>2 9 | 2.0    | 3.5<br>78 | 2.0              |
| A2.02  | Valve closur                                                    |                                                                                                                                                                                  |               | 2.0        | 2.9    | 2.0       | 2.9              |
| A2.05  | A C power f                                                     | igs<br>failures                                                                                                                                                                  |               | 2.0        | 3.0    | 2.0       | 3.0              |
| A 2 05 | Inadequate e                                                    | victem flow                                                                                                                                                                      |               | 2.9        | 29     | 2.9       | 29               |
| A2.05  | L ow hotwell                                                    | level                                                                                                                                                                            |               | 3.2        | 3.2    | 3.2       | 3.2              |
| A2.00  | High hotwell                                                    | level                                                                                                                                                                            |               | 2.9        | 29     | 29        | 2.9              |
| A2.07  | High feedwa                                                     | ter heater level                                                                                                                                                                 |               | 31         | 31     | 3.1       | 31               |
| A2.00  | L ow feedwat                                                    | ter heater level                                                                                                                                                                 |               | 2.8        | 2.8    | 2.8       | 2.8              |
| Δ2.02  | Main turbine                                                    | trin                                                                                                                                                                             |               | 31         | 31     | 3.1       | 31               |
| A2.10  | Loss of circu                                                   | lating water system                                                                                                                                                              |               | 3.2        | 3.2    | 3.2       | 3.2              |
| A2 12  | Loss of equi                                                    | pment component cooling water systems                                                                                                                                            |               | 3.1        | 3.1    | 3.1       | 3.1              |
| A2.13  | Loss of appli                                                   | icable plant air systems                                                                                                                                                         |               | 2.9        | 3.0    | 2.9       | 3.0              |
| A2.14  | Low Conden                                                      | sate storage tank level                                                                                                                                                          |               | 3.3        | 3.4    | 3.3       | 3.4              |
| A2.15  | Abnormal w                                                      | ater quality                                                                                                                                                                     |               | 2.8        | 3.1    | 2.8       | 3.1              |
| A2.16  | High demine                                                     | ralizer differential pressure                                                                                                                                                    |               | 2.8        | 2.8    | 2.8       | 2.8              |
| A2.17  | Feedwater he                                                    | eater string trip: Plant-Specific                                                                                                                                                |               | 2.9        | 2.9    | 2.9       | 29               |
| A2.18  | Loss of SJAI                                                    | E                                                                                                                                                                                |               | 2.9        | 2.9    | 2.9       |                  |
| A3     | Ability to mo<br>CONDENSA                                       | nitor automatic operations of the REACTOR<br>TE SYSTEM including:                                                                                                                | (41.7 / 45.7) |            |        |           |                  |
| A3.01  | Valve operat                                                    | tion                                                                                                                                                                             |               | 2.7        | 2.7    | 2.7       | 2.7              |
| A3.02  | Pump starts                                                     |                                                                                                                                                                                  |               | 3.0        | 2.9    | 3.0       | 2.9              |
| A3.03  | System press                                                    | sure                                                                                                                                                                             |               | 2.9        | 2.9    | 2.9       | 2.9              |
| A3.04  | System flow                                                     |                                                                                                                                                                                  |               | 3.0        | 3.0    | 3.0       | 3.0              |
| A3.05  | Lights and a                                                    | larms                                                                                                                                                                            |               | 3.0        | 2.9    | 3.0       | 2.9              |
| A3.06  | Hotwell leve                                                    | 21                                                                                                                                                                               |               | 3.0        | 2.9    | 3.0       | 2.9              |
| A3.07  | Feedwater he                                                    | eater level                                                                                                                                                                      |               | 2.9        | 2.9    | 2.9       | 2.9              |
| A3.08  | Feedwater te                                                    | emperature                                                                                                                                                                       |               | 3.1        | 3,1    | 3.1       | 3.1              |
| A3.09  | Feedwater he                                                    | eater drain tank level: Plant-Specific                                                                                                                                           |               | 2.8        | 2.9    | 2.8       | 2.9              |

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System Number: 256000

Facility: CPS

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| System Name: Reactor Condensate System |                                                                                 | <u>NRC Imp</u> |     | Facility Imp |     |
|----------------------------------------|---------------------------------------------------------------------------------|----------------|-----|--------------|-----|
|                                        | CFR                                                                             | RO             | SRO | RO           | SRO |
| A4                                     | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) |                |     |              |     |
| 44.01                                  | FUOM:<br>Heterell and devents/ and devents besetter number                      | 2 2            | 22  | 3 2          | 2.2 |
| A4.01                                  | Hotwell condensate/ condensate booster pumps                                    | 5.5            | 5.5 | 5.5          | 5.5 |
| A4.02                                  | System motor operated valves                                                    | 2.8            | 2.8 | 2.8          | 2.8 |
| A4.03                                  | Hotwell level controls                                                          | 3.2            | 3.1 | 3.2          | 3.1 |
| A4.04                                  | Minimum flow valves                                                             | 2.8            | 2.7 | 2.8          | 2.7 |
| A4.05                                  | System flow                                                                     | 3.1            | 3.1 | 3.1          | 3.1 |
| A4.06                                  | System pressure                                                                 | 3.1            | 3.0 | 3.1          | 3.0 |
| A4.07                                  | Lights and alarms                                                               | 2.9            | 2.9 | 2.9          | 2.9 |
| A4.08                                  | Reactor water level                                                             | 3.7            | 3.7 | 3.7          | 3.7 |
| A4.09                                  | System water quality                                                            | 2.9            | 3.1 | 2.9          | 3.1 |
| A4.10                                  | Feedwater temperature                                                           | 3.2            | 3.2 | 3.2          | 3.2 |
| A4.11                                  | Condensate storage tank level                                                   | 3.2            | 3.4 | 3.2          | 3.4 |
| A4.12                                  | Feedwater heater level: Plant-Specific                                          | 3.0            | 3.0 | 3.0          | 3.0 |
| A4.13                                  | Condenser vacuum                                                                | 3.3            | 3.4 | 3.3          | 3.4 |
| A4.14                                  | Feedwater heater drain tank level: Plant-Specific                               | 2.7            | 2.7 | 2.7          | 2.7 |
| A4.15                                  | Air ejectors: Plant-Specific                                                    | 3.1            | 3.0 | 3.1          | 3.0 |

Facility: CPS

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259001 System Number:

|                 | System Name:     | Reactor Feedwater System                     |                         | NRC          | Imp         | <u>Facili</u> | ty Imp     |
|-----------------|------------------|----------------------------------------------|-------------------------|--------------|-------------|---------------|------------|
| $\sim$          |                  | ÷                                            | CFR                     | RO           | SRO         | RO            | SRO        |
| K1              | Knowledge of     | the physical connections and/or cause-       | (41.2 to 41.9 / 45.7 to |              |             |               |            |
|                 | effect relation: | ships between REACTOR FEEDWATER              | 45.8)                   |              |             |               |            |
|                 | SYSTEM and       | the following:                               |                         |              |             |               |            |
| K1.01           | Reactor vesse    | el                                           |                         | 3.6          | 3.7         | 3.6           | 3.7        |
| K1.02           | HPCI: Plant-S    | Specific                                     |                         | 3.6          | 3.8         | 3.6           | 3.8        |
| K1.03           | RWCU             |                                              |                         | 2.7          | 2.9         | 2.7           | 2.9        |
| K1.04           | Extraction ste   | eam system                                   |                         | 2.8          | 2.9         | 2.8           | 2.9        |
| K1.05           | Condensate s     | ystem                                        |                         | 3.2          | 3.2         | 3.2           | 3.2        |
| K1.06           | Plant air syste  | ems                                          |                         | 2.9          | 3.0         | 2.9           | 3.0        |
| K1.07           | A.C. electrica   | al power                                     |                         | 2.9          | 2.9         | 2.9           | 2.9        |
| K1.08           | Reactor wate     | r level control system                       |                         | 3.6          | 3.7         | 3.6           | 3.7        |
| K1.09           | Reactor wate     | r level                                      |                         | 3.8          | 3.8         | 3.8           | 3.8        |
| K1.10           | Component c      | cooling water systems                        |                         | 2.7          | 2.7         | 2.7           | 2.7        |
| K1.11           | RFP lube oil     | system                                       |                         | 2.7          | 2.7         | 2.7           | 2.7        |
| K1.12           | RFP turbine s    | seal steam system: TDRFP's-Only              |                         | 2.6          | 2.6         | 2.6           | 2.6        |
| K1.13           | Main turbine     | generator: Plant-Specific                    |                         | 2.5          | 2.5         | 2.5           | 2.5        |
| K1.14           | RCIC: Plant-     | Specific                                     |                         | 3.1          | 3.1         | 3.1           | 3.1        |
| K1.15           | RHR: Plant-S     | Snecific                                     |                         | 3.0          | 3.1         | 3.0           | 3.1        |
| K1.16           | Recirculation    | }                                            |                         | 3.1          | 3.1         | 3.1           | 3.1        |
| K1.17           | Heater drains    | : Plant-Specific                             |                         | 2.4          | 2.4         | 2.4           | 2.4        |
| K1.18           | Fire protection  | n system (emergency cooling): Plant-Specific |                         | 2.4          | 2.6         | 2.4           | 2.6        |
| K1.19           | +Redundant re    | enctivity control system: Plant-Specific     |                         | 3.0          | 3.3*        | 3.0           | 3.3        |
| \$1.20          | Main steam s     | system: TDRFPs-Only                          |                         | 3.1          | 3.2         | 3.1           | 3.2        |
| ₩K1.21          | D.C. electric    | power                                        |                         | 2.4          | 2.5         | 2.4           | 2.5        |
| К2              | Knowledge of     | electrical power supplies to the following:  | (41.7)                  |              |             |               |            |
| K2.01           | Reactor feed     | water pump(s): Motor-Driven-Only             | (111)                   | 3.3          | 3.3         | 3.3           | 3.3        |
| K2.02           | System moto      | r operated valves                            |                         | 2.1*         | 2.2*        | 2.1           | 2.2        |
| K2.03           | RFP auxiliar     | y oil pumps                                  |                         | 2.3*         | 2.4         | 2.3           | 2.4        |
| К3              | Knowledge of     | the effect that a loss or malfunction of the | (41.7 / 45.4)           |              |             |               |            |
|                 | following:       | EEDWATER STSTEM will have on                 |                         |              |             |               |            |
| K2 01           | Denotor wrote    |                                              |                         | 30           | 30          | 30            | 30         |
| K3.01           | Reactor wate     | r level control custom                       |                         | 3.8          | 3.8         | 3.8           | 3.8        |
| K3.02           |                  | r jevel control system                       |                         | 2.0          | 3,0         | 33            | 33         |
| K3.03           | DWCU             | specific                                     |                         | 2.5          | 2.5         | 2.5           | 2.5        |
| K3.04           | Rweinaulatian    | NDCH                                         |                         | 2.5          | 2.5         | 2.0           | 2.5        |
| K3.05<br>K2.04  | Core inlation    | r pump Nr Sri<br>haasling                    |                         | 31           | 31          | 31            | 31         |
| NJ.00           | Cond-met su      | becoming                                     |                         | 2.1          | 3.1         | 3.0           | 3.1        |
| K3.0/           | Donaensate s     | system                                       |                         | 3.U<br>2.0   | 20          | 20            | 3.0<br>2.0 |
| NJ.U8           |                  |                                              |                         | 2.7          | 2.7         | 2.7<br>7.5    | 4.7<br>7.4 |
| K3.09           | Extraction st    | eam system                                   |                         | ∠.J<br>2.D≭  | ∠.∪<br>ว.ว* | 2.5           | 2.0<br>2.1 |
| K3.10           | DIRUS: Plant     | -Specific                                    |                         | J.∠*<br>2.2* | 3.4         | 22            | 3.2<br>2.2 |
| K3.11<br>1/2 10 | RHK: Plant-S     | specific                                     |                         | 2.2"<br>20   | ر.ر<br>۵ د  | 20            | 2.0        |
| NJ.12           | Reactor power    | er                                           |                         | 3.6          | 3.9         | 5.0           | 5.9        |

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System Number: 259001

Facility: CPS

|                | System Name: Reactor Feedwater System                     |               | <u>NRC</u> | Imp  | <u>Facilit</u> | <u>y I</u> r |
|----------------|-----------------------------------------------------------|---------------|------------|------|----------------|--------------|
|                |                                                           | CFR           | RO         | SRO  | RO             |              |
| VA             | Vnowledge of DFACTOR FFEDWATER SVSTFM                     | (41.7)        |            |      |                |              |
| <b>N</b> 4     | design feature(s) and/or interlocks which provide for the | (41.7)        |            |      |                |              |
|                | following:                                                |               |            |      |                |              |
| K4.01          | Auto start of the RFP's: Plant-Specific                   |               | 3.8        | 4.0  | 3.8            | 4.0          |
| K4.02          | Feedwater heating                                         |               | 2.8        | 2.9  | 2.8            | 2.9          |
| K4.03          | RFP minimum flow                                          |               | 2.7        | 2.7  | 2.7            | 2.7          |
| K4.04          | Dispersal of feedwater in the reactor vessel              |               | 2.5        | 2.6  | 2.5            | 2.6          |
| K4.05          | RFP protection                                            |               | 2.7        | 2.8  | 2.7            | 2.8          |
| K4.06          | RFP lubrication                                           |               | 2.5        | 2.6  | 2.5            | 2.6          |
| K4.07          | RFP motor cooling: Motor-Driven-Only                      |               | 2.5        | 2.6  | 2.5            | 2.6          |
| K4.08          | RFP turbine seals: TDRFP's-Only                           |               | 2.3        | 2.4  | 2.3            | 2.4          |
| K4.09          | System isolation from the reactor vessel (check valves,   |               | 3.2        | 3.3  | 3.2            | 3.3          |
|                | double valve isolation inside/ outside containment)       |               |            |      |                |              |
| K4.10          | Feedpump runbacks: Plant-Specific                         |               | 3.1        | 3.4  | 3.1            | 3.4          |
| K4.11          | Recirculation runbacks: Plant-Specific                    |               | 3.5        | 3.5  | 3.5            | 3.5          |
| К5             | Knowledge of the operational implications of the          | (41.5 / 45.3) |            |      |                |              |
|                | following concepts as they apply to REACTOR               | · · ·         |            |      |                |              |
| V 5 01         | System venting                                            |               | 2 4*       | 24   | 24             | 24           |
| K5.01          | System venting<br>Water hammer                            |               | 25         | 2.4  | 2.4            | 2.5          |
| K5.02          | Turbine operation: TDREP's-Only                           |               | 2.8        | 2.8  | 2.8            | ~            |
| K5.05          | Turbine operation. TDRTT soomy                            |               | 2.0        | 2.0  | 2.0            |              |
| K6             | Knowledge of the effect that a loss or malfunction of the | (41.7 / 45.7) |            |      |                |              |
|                | following will have on the REACIOR FEEDWATER              |               |            |      |                |              |
| V ( 0)         | SYSTEM:<br>Diant sin mistant                              |               | 2.0        | 3.0  | 3.0            | 3.0          |
| K0.01          | Plant air systems                                         |               | 3.0        | 3.0  | 3.0            | 3.4          |
| K0.02          | A C alegrical newer                                       |               | 29         | 31   | 29             | 31           |
| K0.03          | A.C. electrical power                                     |               | 2.2        | 29   | 2.2            | 2.9          |
| K0.04<br>V6.05 | Component cooling water systems                           |               | 2.0        | 2.7  | 2.0            | 2.7          |
| NU.UJ          | Plant service writer                                      |               | 27         | 27   | 27             | 2.7          |
| N0.00          | Plant service water<br>Peastor water level control system |               | 3.8        | 3.8  | 3.8            | 3.8          |
| NO.07          | Reactor water level control system                        |               | 2.1*       | 2.0  | 2.1            | 2.1          |
| N0.00          | Motor Driven Only                                         |               | 2.,1       | 2.1  | 2.1            | 2.1          |
| K 6 00         | Reactor feedwater pump lube oil system                    |               | 28         | 29   | 28             | 2.9          |
| KG 10          | REP turbine seal system: TDREP's-Only                     |               | 2.5        | 2 5  | 2.5            | 2.5          |
| K6 11          | Main steam, TDRFP's_Only                                  |               | 2.8        | 2 8  | 2.8            | 2.8          |
| KU.11<br>K6 12 | D C electrical nower                                      |               | 2.3        | 2.0  | 2.3            | 2.5          |
| K6 13          | TRedundant reactivity control: Plant-Specific             |               | 3.0        | 3.3* | 3.0            | 3.3          |
| K6 14          | Heater drains: Plant-Specific                             |               | 2.5        | 2.6  | 2.5            | 2.6          |
| NO.14          | mater drams, man-operate                                  |               |            | 2.0  |                |              |

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|         | Facility: CPS                                                        |                                                                                                                                                                                |               | Printe | d: 08/1 | 1/2006 |         |       |
|---------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------|--------|---------|-------|
|         | <u>System Number:</u>                                                | 259001                                                                                                                                                                         |               |        |         |        |         |       |
|         | System Name:                                                         | Reactor Feedwater System                                                                                                                                                       |               |        | NRC     | lmp    | Facilit | v Imo |
|         | <u></u>                                                              |                                                                                                                                                                                |               | CFR    | RO      | SRO    | RO      | SRO   |
| Al      | Ability to pred<br>associated with<br>SYSTEM cont                    | lict and/or monitor changes in parameters<br>a operating the REACTOR FEEDWATER<br>rols including:                                                                              | (41.5 / 45.5) |        |         |        |         |       |
| A1.01   | Feedwater flo                                                        | w/pressure                                                                                                                                                                     |               |        | 3.3     | 3.3    | 3.3     | 3.3   |
| A1 02   | Feedwater in                                                         | et temperature                                                                                                                                                                 |               |        | 32      | 33     | 32      | 33    |
| A1 03   | RFP motor an                                                         | nns: Motor-Driven-Only                                                                                                                                                         |               |        | 2.8     | 28     | 2.8     | 2.8   |
| A1 04   | REP turbine s                                                        | need: Turbine-Driven-Only                                                                                                                                                      |               |        | 2.8     | 27     | 2.8     | 2.0   |
| A1.05   | REP turbine c                                                        | control valve position: Turbine-Driven-Only                                                                                                                                    |               |        | 2.8     | 27     | 2.8     | 27    |
| A1.06   | Feedwater he                                                         | ater level                                                                                                                                                                     |               |        | 2.7     | 2.7    | 2.7     | 2.7   |
| A2      | Ability to (a) p<br>REACTOR FI<br>those predictio<br>mitigate the co | predict the impacts of the following on the<br>EEDWATER SYSTEM; and (b) based on<br>ons, use procedures to correct, control, or<br>onsequences of those abnormal conditions or | (41.5 / 45.6) |        |         |        |         |       |
|         | operations:                                                          |                                                                                                                                                                                |               |        |         |        |         |       |
| A2.01   | Pump trip                                                            |                                                                                                                                                                                |               |        | 3.7     | 3.7    | 3.7     | 3.7   |
| A2.02   | Feedwater he                                                         | ater isolation                                                                                                                                                                 |               |        | 3.1     | 3.3    | 3.1     | 3.3   |
| A2.03   | Loss of conde                                                        | ensate pump(s)                                                                                                                                                                 |               |        | 3.6     | 3.6    | 3.6     | 3.6   |
| A2.04   | Loss of extrac                                                       | ction steam                                                                                                                                                                    |               |        | 3.3     | 3.4    | 3.3     | 3.4   |
| A2.05   | Loss of applic                                                       | cable plant air systems                                                                                                                                                        |               |        | 3.0     | 3.0    | 3.0     | 3.0   |
| A2.06   | Loss of A.C.                                                         | electrical power                                                                                                                                                               |               |        | 3.2     | 3.2    | 3.2     | 3.2   |
| A2.07   | Reactor water                                                        | r level control system malfunctions                                                                                                                                            |               |        | 3.7     | 3.8    | 3.7     | 3.8   |
| - A2.08 | Loss of D.C.                                                         | electrical power                                                                                                                                                               |               |        | 2.5     | 2.6    | 2.5     | 2.6   |
| A2.09   | <b>†TDRFP</b> stea                                                   | m inlet pressure flow: Plant-Specific                                                                                                                                          |               |        | 2.6     | 2.7    | 2.6     | 2.7   |
| A3      | Ability to mon<br>FEEDWATEF                                          | itor automatic operations of the REACTOR<br>& SYSTEM including:                                                                                                                | (41.7 / 45.7) |        |         |        |         |       |
| A3.01   | RFP auto star                                                        | 1: Plant-Specific                                                                                                                                                              |               |        | 3.3     | 3.5    | 3.3     | 3.5   |
| A3.02   | Motor amps:                                                          | Motor-Driven-Only                                                                                                                                                              |               |        | 2.4     | 2.5    | 2.4     | 2.5   |
| A3.03   | System flow                                                          |                                                                                                                                                                                |               |        | 3.3     | 3.2    | 3.3     | 3.2   |
| A3.04   | Reactor water                                                        | r level                                                                                                                                                                        |               |        | 3.8     | 3.7    | 3.8     | 3.7   |
| A3.05   | Feedwater inl                                                        | et temperature                                                                                                                                                                 |               |        | 3.1     | 3.2    | 3.1     | 3.2   |
| A3.06   | Pump dischar                                                         | ge pressure                                                                                                                                                                    |               |        | 3.1     | 3.1    | 3.1     | 3.1   |
| A3.07   | FWRV positi                                                          | on                                                                                                                                                                             |               |        | 3.2     | 3.2    | 3.2     | 3.2   |
| A3.08   | Turbine speed                                                        | 1: TDRFP'S-Only                                                                                                                                                                |               |        | 2.8     | 2.7    | 2.8     | 2.7   |
| A3.09   | Lights and ala                                                       | arms                                                                                                                                                                           |               |        | 3.0     | 3.0    | 3.0     | 3.0   |
| A3,10   | Pump trips                                                           |                                                                                                                                                                                |               |        | 3.4     | 3.4    | 3.4     | 3.4   |
| A3.11   | Reactor feedpo                                                       | ump runbacks: Plant-Specific                                                                                                                                                   |               |        | 3.2     | 3.7    | 3.2     | 3.7   |

| Printed: | 08/11 | 1/2006 |
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System Number: 259001

Facility: CPS

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| System Name: Reactor Feedwater System |                                                                                 | NRC | NRC Imp |     | ty I |
|---------------------------------------|---------------------------------------------------------------------------------|-----|---------|-----|------|
|                                       | CFR                                                                             | RO  | SRO     | RO  | ٤.,  |
| A4                                    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) |     |         |     |      |
| A4.01                                 | System flow                                                                     | 3.6 | 3.5     | 3.6 | 3.5  |
| A4.02                                 | Manually start/control a RFP/TDRFP                                              | 3.9 | 3.7     | 3.9 | 3.7  |
| A4.03                                 | Feedwater heater/drain controls                                                 | 2.9 | 3.0     | 2.9 | 3.0  |
| A4.04                                 | System valves                                                                   | 3.1 | 2.9     | 3.1 | 2.9  |
| A4.05                                 | Reactor water level                                                             | 4.0 | 3.9     | 4.0 | 3.9  |
| A4.06                                 | Feedwater inlet temperature                                                     | 3.4 | 3.5     | 3.4 | 3.5  |
| A4.07                                 | Pump discharge pressure                                                         | 3.3 | 3.2     | 3.3 | 3.2  |
| A4.08                                 | FWRV position                                                                   | 3.3 | 3.3     | 3.3 | 3.3  |

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|                | Facility: CPS                 |                                    |                         |             | Printe | d: 0 <b>8</b> /1 | 1/2006 |
|----------------|-------------------------------|------------------------------------|-------------------------|-------------|--------|------------------|--------|
|                | System Number: 259002         |                                    |                         |             |        |                  |        |
|                | System Name: Reactor          | Water Level Control System         |                         | NRC         | Imn    | Kacili           | tv Imn |
| Secure 1       | System Mame: Reactor          | water Lever Control System         | CFR                     | RO          | SRO    | RO               | SRO    |
|                |                               |                                    |                         |             |        |                  |        |
| <b>K</b> 1     | Knowledge of the physica      | el connections and/or cause-       | (41.2 to 41.9 / 45.7 to |             |        |                  |        |
|                | effect relationships betwe    | en REACTOR WATER LEVEL             | 45.8)                   |             |        |                  |        |
| <b>V</b> 101   | DDS CONTROL SYSTEM an         | a the following:                   |                         | 38          | 3.0    | 38               | 30     |
| K1.01          | KPS<br>Main Mann flam         |                                    |                         | 3.0         | 3.3    | 3.0              | 3.9    |
| K1.02          | Reactor water loval           |                                    |                         | 3.2         | 3.0    | 3.2              | 3.5    |
| K1.05          | Reactor water level           |                                    |                         | 3.5         | 3.5    | 3.5              | 3.6    |
| K1.04          | Reactor feedwater flow        | _                                  |                         | 3.5         | 3.0    | 3.6              | 3.7    |
| K1.05          | Reactor feedwater system      |                                    |                         | 3.0         | 3.7    | 3.0              | 3.7    |
| K1.00          | Plant air systems             | -t Creation                        |                         | 2.0         | 27     | 2.6              | 2.1    |
| N1.07          | Rod worth minimizer: Pid      |                                    |                         | 2.0         | 3.7    | 2.0              | 2.7    |
| K1.08          | Recirculation system: Pla     | -)                                 |                         | 2.2         | 3.0    | 2.0              | 3.0    |
| K1.09          | F sat/1 sat (compensation     |                                    |                         | 2.9         | 3.0    | 2.9              | 3.0    |
| KL.10<br>K1.11 | Emergency generator(s):       |                                    |                         | 3.0         | 3.0    | 3.0              | 3.0    |
| K1.11          | Environment of the set of the | HIGH                               |                         | 2.0<br>2.6* | 2.2    | 2.6              | 3.2    |
| KI.12          | Emergency condensate in       | unster pump: r w curtir cu         |                         | 2.0         | 2.0    | 2.0              | 2.0    |
| KI.13          | Main turking                  |                                    |                         | 20          | 3.0    | 2.0              | 3.0    |
| K1.14          | Main turbine                  | -1 opuntation                      |                         | 2.7         | 3.0    | 2.7              | 3.0    |
| <b>NI.13</b>   | LIDCI: Plant Specific         | of system                          |                         | 3.4         | 3.5    | 3.4              | 3.5    |
| K1.10          | HPCI: Plant-Specific          |                                    |                         | 5.4         | 5.5    | 5.4              | 5.5    |
| K2             | Knowledge of electrical p     | oower supplies to the following:   | (41.7)                  |             |        |                  |        |
| \$2.01         | Reactor water level contr     | rol system circuits                |                         | 2.4*        | 2.7    | 2.4              | 2.7    |
| ₩K2.02         | Feedwater coolant injection   | on (FWCI) initiation logic: FWCI/H | <del>IPCI</del>         | 3.5*        | 3.5*   | 3.5              | 3.5    |
| КЗ             | Knowledge of the effect t     | hat a loss or malfunction of the   | (41.7 / 45.4 41.7 /     |             |        |                  |        |
|                | REACTOR WATER LE              | VEL CONTROL SYSTEM will            | 45.5 to 45.)            |             |        |                  |        |
|                | have on following:            |                                    | ,                       |             |        |                  |        |
| K3.01          | Reactor water level           |                                    |                         | 3.8         | 3.8    | 3.8              | 3.8    |
| K3.02          | Reactor feedwater system      | n                                  |                         | 3.7         | 3.7    | 3.7              | 3.7    |
| K3.03          | Rod worth minimizer: Pla      | ant-Specific                       |                         | 2.7         | 2.9    | 2.7              | 2.9    |
| K3.04          | Recirculation system: Pla     | ant-Specific                       |                         | 2.9         | 3.0    | 2.9              | 3.0    |
| K3.05          | Recirculation flow control    | ol system                          |                         | 2.8         | 2.9    | 2.8              | 2.9    |
| K3.06          | Main turbine                  | -                                  |                         | 2.8         | 2.8    | 2.8              | 2.8    |
| K3.07          | Reactor water level indic     | cation                             |                         | 3.4*        | 3.4    | 3.4              | 3.4    |

|       | Facility: CPS                      |                                                                      |                 |      | Printe | d: 08/1       | 1/2006      |
|-------|------------------------------------|----------------------------------------------------------------------|-----------------|------|--------|---------------|-------------|
|       | System Number:                     | 259002                                                               |                 |      |        |               |             |
|       | System Name:                       | Reactor Water Level Control System                                   |                 | NRC  | lmp    | <u>Facili</u> | <u>ty l</u> |
|       |                                    |                                                                      | CFR             | RO   | SRO    | RO            | 5.          |
| К4    | Knowledge of I                     | REACTOR WATER LEVEL CONTROL                                          | (41.7)          |      |        |               |             |
|       | SYSTEM desig                       | n feature(s) and/or interlocks which                                 |                 |      |        |               |             |
|       | provide for the                    | following:                                                           |                 |      |        |               |             |
| K4.01 | Ensuring adeq<br>Plant-Specific    | uate NPSH for recirculation pumps:                                   |                 | 3.0  | 3.1    | 3.0           | 3.1         |
| K4.02 | Bypassing of th                    | he RWM: Plant Specific                                               |                 | 2.8  | 2.0    | 2.8           | 2.0         |
| K4.03 | Reactor feedp                      | ump runout protection: MDFP                                          |                 | 2.8* | 2.8    | 2.8           | 2.8         |
| K4.04 | Reactor water                      | level setpoint setdown following a reactor                           |                 | 2.9  | 2.9    | 2.9           | 2.9         |
| KA 05 | P sat/T sat (co                    | mpensation)                                                          |                 | 29   | 29     | 29            | 29          |
| K4.05 | Control signal                     | failure                                                              |                 | 3.1  | 3.7    | 31            | 3.2         |
| K4.00 | TOPED 20% n                        | ower interlock, TDPEP                                                |                 | 31   | 33     | 31            | 33          |
| K4.07 | TDPED aroad                        | control: TDDED                                                       |                 | 20   | 3.0    | 20            | 3.0         |
| K4.00 | Single closer                      | t control (reactor water level provides the                          |                 | 2.9  | 3.0    | 2.7           | 3.0         |
| K4.09 | only input)                        | it control (reactor water level provides the                         |                 | 5.1  | 5.1    | 5.1           | 3.1         |
| K4.10 | Three element                      | t control (main steam flow, reactor feedwater                        |                 | 3.4  | 3.4    | 3.4           | 3,4         |
|       | tlow and react                     | tor water level provide input)                                       |                 |      | 2.2    | 2.2           | • •         |
| K4.11 | DP control: Pl                     | lant-Specific                                                        |                 | 3.3  | 3.3    | 3.3           | 3.3         |
| K4.12 | Manual and au                      | utomatic control of the system                                       |                 | 3.5  | 3.4    | 3.5           | 3.4         |
| K4.13 | FWRV lockup                        | 2                                                                    |                 | 3.5  | 3.6    | 3.5           | 3.6         |
| K4.14 | Selection of va<br>level input     | arious instruments to provide reactor water                          |                 | 3.4  | 3.4    | 3.4           | 3.4         |
| K4.15 | Automatic initi<br>ECCS initiation | iation of the feedwater system upon receipt o<br>n signal: FWCI/HPCI | <del>f an</del> | 4.5* | 4.5*   | 4.5           |             |
| K4.16 | Dedication of f                    | feedwater string(s) to ECCS: FWCI/HPCI                               |                 | 4.5* | 4.5*   | 4.5           | 4.5         |
| K4.17 | Simultaneous                       | Manual and Auto operation of the system                              |                 | 3.1  | 3.0    | 3.1           | 3.0         |
|       | (1.0. 1111 117)                    |                                                                      |                 |      |        |               |             |
| K5    | Knowledge of t                     | the operational implications of the                                  | (41.5 / 45.3)   |      |        |               |             |
|       | tollowing conce                    | epts as they apply to REACTOR WATER                                  |                 |      |        |               |             |
|       | LEVEL CONT                         | FROL SYSTEM:                                                         |                 |      |        |               | ~ •         |
| K5.01 | GEMAC/Fox                          | boro/Bailey controller operation:                                    |                 | 3.1  | 3.1    | 3.1           | 3.1         |
|       | Plant-Specific                     |                                                                      |                 |      | ~ .    | • •           | ~ (         |
| K5.02 | Electro/ Pneur                     | matic converter operation                                            |                 | 2.2* | 2.4    | 2.2           | 2.4         |
| K5.03 | Water level m                      | leasurement                                                          |                 | 3.1  | 3.2    | 3.1           | 3.2         |
| K5.04 | Moisture carry                     | yover                                                                |                 | 2.3  | 2.3    | 2.3           | 2.3         |
| K5.05 | Moisture carr                      | yunder                                                               |                 | 2.3  | 2.3    | 2.3           | 2.3         |
| K5.06 | Pump runout                        |                                                                      |                 | 2.4  | 2.4    | 2.4           | 2.4         |
| K5.07 | Turbine speed                      | l control mechanisms: TDRFP                                          |                 | 2.7  | 2.7    | 2.7           | 2.7         |
| K5.08 | Heat removal r                     | mechanisms: FWCI                                                     |                 | 3.6  | 3.8    | 3.6           | 3.8         |
| K5.09 | #Adequate cor                      | e cooling: FWCl                                                      |                 | 3.8  | 4.2*   | 3.8           | 4.2         |

|                | Facility: CPS                                    | 3                                                                                                                            |               |       | Printe | :d: 08/1 | 1/2006 |
|----------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|-------|--------|----------|--------|
|                | <u>System Number:</u>                            | 259002                                                                                                                       |               |       |        |          |        |
|                | System Name:                                     | Reactor Water Level Control System                                                                                           |               | NRO   | CImp   | Facili   | ty Imp |
| w <sup>2</sup> |                                                  | -                                                                                                                            | C             | FR RO | SRO    | RO       | SRO    |
| K6             | Knowledge of                                     | the effect that a loss or malfunction of the                                                                                 | (41.7 / 45.7) |       |        |          |        |
|                | following will I                                 | have on the REACTOR WATER LEVEL                                                                                              |               |       |        |          |        |
| K6.01          | Plant air syste                                  | ms                                                                                                                           |               | 3.2   | 3.2    | 3.2      | 3.2    |
| K6.02          | A.C. power                                       |                                                                                                                              |               | 3.3   | 3.4    | 3.3      | 3.4    |
| K6.03          | Main steam fl                                    | ow input                                                                                                                     |               | 3.1   | 3.1    | 3.1      | 3.1    |
| K6 04          | Reactor feedy                                    | vater flow input                                                                                                             |               | 3.1   | 3.1    | 3.1      | 3.1    |
| K6.05          | Reactor water                                    | level input                                                                                                                  |               | 3.5   | 3.5    | 3.5      | 3.5    |
| K6.06          | Reactor press<br>compensation                    | ure/temperature input (for water level input                                                                                 |               | 2.6   | 2.7    | 2.6      | 2.7    |
| K6.07          | Drywell pressu                                   | re input: FWCI                                                                                                               |               | 3.0*  | 3.0*   | 3.0      | 3.0    |
| K6.08          | Loss of dP act<br>Plant-Specific                 | ross startup level control bypass valve:                                                                                     |               | 2.7   | 2.7    | 2.7      | 2.7    |
| A1             | Ability to pred<br>associated with<br>LEVEL CONT | ict and/or monitor changes in parameters<br>a operating the REACTOR WATER<br>FROL SYSTEM controls including:                 | (41.5 / 45.5) |       |        |          |        |
| A1.01          | Reactor water                                    | ·level                                                                                                                       |               | 3.8   | 3.8    | 3.8      | 3.8    |
| A1.02          | Reactor feedv                                    | vater flow                                                                                                                   |               | 3.6   | 3.5    | 3.6      | 3.5    |
| A1.03          | Reactor powe                                     | r                                                                                                                            |               | 3.8   | 3.8    | 3.8      | 3.8    |
| A1.04          | Reactor water                                    | · level control controller indications                                                                                       |               | 3.6   | 3.6    | 3.6      | 3.6    |
| 11.05          | FWRV/startu                                      | p level control position: Plant-Specific                                                                                     |               | 2.9   | 2.9    | 2.9      | 2.9    |
| <b>A</b> 1.06  | Feedwater strip                                  | ng(s) selected for FWCI: FWCI                                                                                                |               | 3.3*  | 3.3*   | 3.3      | 3.3    |
| A1.07          | TDRFP speed                                      | I: TDRFP                                                                                                                     |               | 2.6   | 2.6    | 2.6      | 2.6    |
| A2             | Ability to (a) p<br>REACTOR W<br>(b) based on th | redict the impacts of the following on the<br>ATER LEVEL CONTROL SYSTEM; and<br>nose predictions, use procedures to correct, | (41.5 / 45.6) |       |        |          |        |
|                | control, or mit                                  | igate the consequences of those abnormal                                                                                     |               |       |        |          |        |
|                | conditions or c                                  | operations:                                                                                                                  |               |       | ~ .    |          |        |
| A2.01          | Loss of any n                                    | umber of main steam flow inputs                                                                                              |               | 3.3   | 3.4    | 3.3      | 3.4    |
| A2.02          | Loss of any n                                    | umber of reactor feedwater flow inputs                                                                                       |               | 3.3   | 3,4    | 5.5      | 3.4    |
| A2.03          | Loss of reacto                                   | or water level input                                                                                                         |               | 3.6   | 3./    | 3.0      | 3./    |
| A2.04          | RFP runout c                                     | ondition: Plant-Specific                                                                                                     |               | 3.0   | 3,1    | 5.0      | 3.1    |
| A2.05          | Loss of applic                                   | cable plant air systems                                                                                                      |               | 3.2   | 3.4    | 3.Z      | 3.4    |
| A2.06          | Loss of control                                  | oller signal output                                                                                                          |               | 3.3   | 3.4    | 3.3      | 3.4    |
| A2.07          | Loss of comp                                     | arator bias signal                                                                                                           |               | 2.4   | 2.5    | 2.4      | 2.5    |
| A2.08          | Receipt of an I                                  | ECCS initiation signal: FWCI                                                                                                 |               | 4.5*  | 4.5*   | 4.5      | 4.5    |
| A2.09          | FWCI system                                      | failure alarm: FWCI                                                                                                          |               | 4.0   | 4.0    | 4.0      | 4.0    |

|       | Facility: CPS                                                                                 |                           |      | Printe | ed: 08/1 | 1/2006   |
|-------|-----------------------------------------------------------------------------------------------|---------------------------|------|--------|----------|----------|
|       | System Number: 259002                                                                         |                           |      |        |          |          |
|       | System Name: Reactor Water Level Control System                                               |                           | NRC  | Imp    | Facili   | ty I     |
|       | <u>- /</u>                                                                                    | CFR                       | RO   | SRO    | RO       | <u> </u> |
| A3    | Ability to monitor automatic operations of the REACT<br>WATER LEVEL CONTROL SYSTEM including: | OR (41.7 / 45.7)          |      |        |          |          |
| A3.01 | Runout flow control: Plant-Specific                                                           |                           | 3.0* | 3.0*   | 3.0      | 3.0      |
| A3.02 | Changes in reactor water level                                                                |                           | 3.4  | 3.4    | 3.4      | 3.4      |
| A3.03 | Changes in main steam flow                                                                    |                           | 3.2  | 3.2    | 3.2      | 3.2      |
| A3.04 | Changes in reactor feedwater flow                                                             |                           | 3.2  | 3.2    | 3.2      | 3.2      |
| A3.05 | Changes in reactor power                                                                      |                           | 3.4  | 3.4    | 3.4      | 3.4      |
| A3.06 | Reactor water level setpoint setdown following a reactor<br>scram: Plant-Specific             |                           | 3.0  | 3.0    | 3.0      | 3.0      |
| A3.07 | FWRV lockup                                                                                   |                           | 3.5  | 3.6    | 3.5      | 3.6      |
| A3.08 | FWCI system initiation: FWCI                                                                  |                           | 4.0  | 4.0    | 4.0      | 4.0      |
| A3.09 | Transfer of system from flow control to level control mo<br>FWCI                              | de:                       | 4.3* | 4.0    | 4.3      | 4.0      |
| A3.10 | TDRFP lockup: TDRFP                                                                           |                           | 3.1  | 3.0    | 3.1      | 3.0      |
| A4    | Ability to manually operate and/or monitor in the cont room:                                  | rol (41.7 / 45.5 to 45.8) |      |        |          |          |
| A4.01 | All individual component controllers in the manual mod                                        | e                         | 3.8  | 3.6    | 3.8      | 3.6      |
| A4.02 | All individual component controllers in the automatic mode                                    |                           | 3.7  | 3.6    | 3.7      | 3.6      |
| A4.03 | All individual component controllers when transferring from manual to automatic modes         |                           | 3.8  | 3.6    | 3.8      | 3.6      |
| A4.04 | FWRV lockup reset controls                                                                    |                           | 3.7  | 3.6    | 3.7      | Ś        |
| A4.05 | Runout flow control reset controls: Plant-Specific                                            |                           | 3.8  | 3.5    | 3.8      | 3.5      |
| A4.06 | DP/Single/three element control selector switch:<br>Plant-Specific                            |                           | 3.1  | 3.2    | 3.1      | 3.2      |
| A4.07 | All individual component controllers when transferring from automatic to manual mode          |                           | 3.8  | 3.6    | 3.8      | 3.6      |
| A4.08 | Manually initiate FWCI: FWCI                                                                  |                           | 4.5* | 4.5*   | 4.5      | 4.5      |
| A4.09 | TDRFP lockout reset: TDRFP                                                                    |                           | 3.4  | 3.1    | 3.4      | 3.1      |
| A4.10 | Setpoint setdown reset controls: Plant-Specific                                               |                           | 3.1  | 2.9    | 3.1      | 2.9      |
| A4.11 | High level lockout reset controls: Plant-Specific                                             |                           | 3.5  | 3.3    | 3.5      | 3.3      |

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System Number: 261000

Facility: CPS

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| System Name: | Standby Gas Treatment System |
|--------------|------------------------------|

|               | System Name: Standby Gas Treatment System                               |         | <u>NRC</u> | Imp  | <u>Facili</u> | ty Imp |
|---------------|-------------------------------------------------------------------------|---------|------------|------|---------------|--------|
|               |                                                                         | CFR     | RO         | SRO  | RO            | SRO    |
| KI            | Knowledge of the physical connections and/or cause- (41.2 to 41.9 /     | 45.7 to |            |      |               |        |
|               | effect relationships between STANDBY GAS 45.8)                          |         |            |      |               |        |
|               | TREATMENT SYSTEM and the following:                                     |         |            |      |               |        |
| K1.01         | Reactor building ventilation system                                     |         | 3.4        | 3.6  | 3.4           | 3.6    |
| K1.02         | Drywell                                                                 |         | 3.2        | 3.4  | 3.2           | 3.4    |
| K1.03         | Suppression pool                                                        |         | 2.9        | 3.1  | 2.9           | 3.1    |
| K1.04         | High radiation sampling system                                          |         | 2.5        | 2.8  | 2.5           | 2.8    |
| K1.05         | Radwaste system: Plant-Specific                                         |         | 2.3        | 2.4  | 2.3           | 2.4    |
| K1.06         | High pressure coolant injection system: Plant-Specific                  |         | 3.0        | 3.1  | 3.0           | 3.1    |
| K1.07         | Elevated release stack                                                  |         | 3.1        | 3.2  | 3.1           | 3.2    |
| K1.08         | Process radiation monitoring system                                     |         | 2.8        | 3.1  | 2.8           | 3.1    |
| K1.09         | Primary containment isolation system                                    |         | 3.2        | 3.4  | 3.2           | 3.4    |
| K1.10         | Plant air systems                                                       |         | 2.2*       | 2.3  | 2.2           | 2.3    |
| K1.11         | Primary containment pressure                                            |         | 3.2        | 3.3  | 3.2           | 3.3    |
| K1.12         | Primary containment purge system: Plant-Specific                        |         | 3.1        | 3.2  | 3.1           | 3.2    |
| К2            | Knowledge of electrical power supplies to the following: (41.7)         |         |            |      |               |        |
| K2.01         | Fan power                                                               |         | 2.1*       | 2.3* | 2.1           | 2.3    |
| K2.02         | Valve power                                                             |         | 1.9*       | 2.0* | 1.9           | 2.0    |
| K2.03         | Initiation logic                                                        |         | 2.3*       | 2.5* | 2.3           | 2.5    |
| K2.04         | Heater power                                                            |         | 1.7*       | 1.9* | 1.7           | 1.9    |
| К3            | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4) |         |            |      |               |        |
|               | STANDBY GAS TREATMENT SYSTEM will have on                               |         |            |      |               |        |
|               | following:                                                              |         |            |      |               |        |
| K3.01         | Secondary containment and environment differential                      |         | 3.3        | 3.6  | 3.3           | 3.6    |
| <b>V202</b>   | pressure                                                                |         | 3.6        | 3.0  | 3.6           | 30     |
| K3.02         | Oll-site release rate                                                   |         | 2.0        | 3.5  | 3.0           | 3.5    |
| N3.05         | Primary containment pressure: wark-nam                                  |         | 3.1        | 3.4  | 3.2           | 3.4    |
| K2.04         | Figh pressure coolain injection system. Fun-opectite                    |         | 3.1        | 3.1  | 3.1           | 35     |
| K3.05         | Brimany containment avugen content: Mark 181                            |         | 3.0        | 3.3  | 3.0           | 3.3    |
| <b>N</b> J.00 | Phinary containment oxygen content. Mark Acti                           |         | 5.0        | 512  | 010           | 0.0    |
| K4            | Knowledge of STANDBY GAS TREATMENT SYSTEM (41.7)                        |         |            |      |               |        |
|               | design feature(s) and/or interlocks which provide for the               |         |            |      |               |        |
|               | following:                                                              |         | - <b>-</b> | 2.0  |               | 2.0    |
| K4.01         | Automatic system initiation                                             |         | 3.7        | 3.8  | 3.7           | 3.8    |
| K4.02         | Charcoal bed decay heat removal                                         |         | 2.6        | 2.8  | 2.6           | 2.8    |
| K4.03         | Moisture removal                                                        |         | 2.5        | 27   | 2.5           | 2.7    |
| K4.04         | Radioactive particulate filtration                                      |         | 2.7        | 2.9  | 2.7           | 2.9    |
| K4.05         | Fission product gas removal                                             |         | 2.6        | 2.8  | 2.6           | 2.8    |
| K4.06         | Charcoal bed retention                                                  |         | 2.4*       | 2.6  | 2.4           | 2.6    |

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| Facility: CPS |                                                                                                                                                            |      | Printed: 08/11/2 |        |       |  |  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|--------|-------|--|--|
|               | System Number: 261000                                                                                                                                      |      |                  |        |       |  |  |
|               | System Name: Standby Gas Treatment System                                                                                                                  | NRC  | lmp              | Facili | ty Ir |  |  |
|               | CFR                                                                                                                                                        | RO   | SRO              | RO     | દ     |  |  |
| К5            | Knowledge of the operational implications of the (41.5 / 45.3)<br>following concepts as they apply to STANDBY GAS<br>TREATMENT SYSTEM:                     |      |                  |        |       |  |  |
| K5.01         | Heat removal mechanisms                                                                                                                                    | 2.3* | 2.6*             | 2.3    | 2.6   |  |  |
| K5.02         | Air operated valves: Plant-Specific                                                                                                                        | 2.3* | 2.5*             | 2.3    | 2.5   |  |  |
| K6            | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.7)<br>following will have on the STANDBY GAS<br>TREATMENT SYSTEM:                     |      |                  |        |       |  |  |
| K6.01         | A.C. electrical distribution                                                                                                                               | 2.9  | 3.0              | 2.9    | 3.0   |  |  |
| K6.02         | D.C. electrical distribution                                                                                                                               | 2.4* | 2.6*             | 2.4    | 2.6   |  |  |
| K6.03         | Emergency diesel generator system                                                                                                                          | 3.0  | 3.1              | 3.0    | 3.1   |  |  |
| K6.04         | Process radiation monitoring                                                                                                                               | 2.9  | 3.1              | 2.9    | 3.1   |  |  |
| K6.05         | Reactor protection system: Plant-Specific                                                                                                                  | 3.1  | 3.2              | 3.1    | 3.2   |  |  |
| K6.06         | Plant air systems                                                                                                                                          | 2.4  | 2.6              | 2.4    | 2.6   |  |  |
| K6.07         | Primary containment atmosphere sampling system:<br>Plant-Specific                                                                                          | 2.2* | 2.4              | 2.2    | 2.4   |  |  |
| K6.08         | Reactor vessel level: Plant-Specific                                                                                                                       | 3.1  | 3.1              | 3.1    | 3.1   |  |  |
| K6.09         | Primary containment high pressure: Plant-Specific                                                                                                          | 3.1  | 3.3              | 3.1    | 3.3   |  |  |
| A1            | Ability to predict and/or monitor changes in parameters (41.5 / 45.5)<br>associated with operating the STANDBY GAS<br>TREATMENT SYSTEM controls including: |      |                  |        | ~~~~  |  |  |
| A1.01         | System flow                                                                                                                                                | 2.9  | 3.1              | 2.9    | 3.1   |  |  |
| A1.02         | Primary containment pressure                                                                                                                               | 3.1  | 3.2              | 3.1    | 3.2   |  |  |
| A1.03         | †Off-site release levels                                                                                                                                   | 3.2  | 3.8              | 3.2    | 3.8   |  |  |
| A1.04         | Secondary containment differential pressure                                                                                                                | 3,0  | 3.3              | 3.0    | 3.3   |  |  |
| A1.05         | Primary containment oxygen level: Mark-1&II                                                                                                                | 2.7* | 2.9*             | 2.7    | 2.9   |  |  |
| A1.06         | Drywell and suppression chamber differential pressure: Mark-I                                                                                              | 2.7  | 3.0              | 2.7    | 3.0   |  |  |
| A1.07         | SBGTS train temperature                                                                                                                                    | 2.8  | 2.9              | 2.8    | 2.9   |  |  |

|       | Facility: CPS                                                                                           |         | Printe | d: 08/11 | /2006 |
|-------|---------------------------------------------------------------------------------------------------------|---------|--------|----------|-------|
|       | System Number: 261000                                                                                   |         |        |          |       |
|       | System Name: Standby Gas Treatment System                                                               | NRC     | Imp    | Facility | Imp   |
|       | <u>Bywen Runer</u> Standby Cas Frederican System                                                        | CFR RO  | SRO    | RO       | SRO   |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / 45.6)                                |         |        |          |       |
|       | STANDBY GAS TREATMENT SYSTEM; and (b) based                                                             |         |        |          |       |
|       | on those predictions, use procedures to correct, control,                                               |         |        |          |       |
|       | or mitigate the consequences of those abnormal conditions                                               |         |        |          |       |
|       | or operations:                                                                                          |         |        |          |       |
| A2.01 | Low system flow                                                                                         | 2.9     | 3.1    | 2.9      | 3.1   |
| A2.02 | High system flow                                                                                        | 2.9     | 3.1    | 2.9      | 3.1   |
| A2.03 | High train temperature                                                                                  | 2.9     | 3.2    | 2.9      | 3.2   |
| A2.04 | High train moisture content                                                                             | 2.5     | 2.7    | 2.5      | 2.7   |
| A2.05 | Fan trips                                                                                               | 3.0     | 3.1    | 3.0      | 3.1   |
| A2.06 | Valve closures                                                                                          | 2.9*    | 2.9*   | 2.9      | 2.9   |
| A2.07 | A.C. electrical failure                                                                                 | 2.7*    | 2.8    | 2.7      | 2.8   |
| A2.08 | D.C. electrical failure                                                                                 | 2.4*    | 2.7*   | 2.4      | 2.7   |
| A2.09 | Plant air system failure                                                                                | 2.4*    | 2.6*   | 2.4      | 2.6   |
| A2.10 | Low reactor water level: Plant-Specific                                                                 | 3.1     | 3.2    | 3.1      | 3.2   |
| A2.11 | High containment pressure                                                                               | 3.2     | 3.3    | 3.2      | 3.3   |
| A2.12 | High fuel pool ventilation radiation: Plant-Specific                                                    | 3.2     | 3.4    | 3.2      | 3.4   |
| A2.13 | High secondary containment ventilation exhaust radiation                                                | 3.4     | 3.7    | 3.4      | 3.7   |
| A2.14 | High system pressure: Plant-Specific                                                                    | 3.0     | 3.2    | 3.0      | 3.2   |
| A2.15 | High area radiation by refuel bridge: Plant-Specific                                                    | 3.0     | 3.4    | 3.0      | 3.4   |
| 43    | Ability to monitor automatic operations of the STANDBY (41.7 / 45.7)<br>GAS TREATMENT SYSTEM including: |         |        |          |       |
| A3.01 | System flow                                                                                             | 3.2     | 3.3    | 3.2      | 3.3   |
| A3.02 | Fan start                                                                                               | 3.2     | 3.1    | 3.2      | 3.1   |
| A3.03 | Valve operation                                                                                         | 3.0     | 2.9    | 3.0      | 2.9   |
| A3.04 | System temperature                                                                                      | 3.0     | 3.1    | 3.0      | 3.1   |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to room:                         | o 45.8) |        |          |       |
| A4.01 | †Off-site release levels: Plant-Specific                                                                | 3.2*    | 4.0*   | 3.2      | 4.0   |
| A4.02 | Suction valves                                                                                          | 3.1     | 3.1    | 3.1      | 3.1   |
| A4.03 | Fan                                                                                                     | 3.0     | 3.0    | 3.0      | 3.0   |
| A4.04 | Primary containment pressure                                                                            | 3.3     | 3.4    | 3.3      | 3.4   |
| A4.05 | Drywell to suppression chamber/torus differential pressure:<br>Mark-I,II                                | 2.9     | 3.2    | 2.9      | 3.2   |
| A4.06 | Reactor building differential pressure                                                                  | 3.3     | 3.6    | 3.3      | 3.6   |
| A4.07 | System flow                                                                                             | 3.1     | 3.2    | 3.1      | 3.2   |
| A4.08 | System temperature                                                                                      | 2.6     | 2.7    | 2.6      | 2.7   |
| A4.09 | Ventilation valves/dampers                                                                              | 2.7     | 2.7    | 2.7      | 2.7   |

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System Number: 262001

Facility: CPS

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|               | System Name: A.C. Electrical Distribution                                                              |                         | NRC 1mp |      | Facility Imp |     |
|---------------|--------------------------------------------------------------------------------------------------------|-------------------------|---------|------|--------------|-----|
| <u> </u>      |                                                                                                        | CFR                     | RO      | SRO  | RO           | SRO |
| К1            | Knowledge of the physical connections and/or cause-                                                    | (41.2 to 41.9 / 45.7 to |         |      |              |     |
|               | effect relationships between A.C. ELECTRICAL                                                           | 45.8)                   |         |      |              |     |
|               | DISTRIBUTION and the following:                                                                        | ,                       |         |      |              |     |
| K1.01         | Emergency generators (diesel/jet)                                                                      |                         | 3.8     | 4.3* | 3.8          | 4.3 |
| K1.02         | D.C. electrical distribution                                                                           |                         | 3.3     | 3.6  | 3.3          | 3.6 |
| K1.03         | Off-site power sources                                                                                 |                         | 3.4     | 3.8  | 3.4          | 3.8 |
| K1.04         | Uninterruptible power supply                                                                           |                         | 3.1     | 3.4  | 3.1          | 3.4 |
| K1.05         | Main turbine/generator                                                                                 |                         | 3.0     | 3.2  | 3.0          | 3.2 |
| K1.06         | Alternate shutdown system: Plant-Specific                                                              |                         | 3.6     | 3.9  | 3.6          | 3.9 |
| К2            | Knowledge of electrical power supplies to the following:                                               | (41.7)                  |         |      |              |     |
| K2.01         | Off-site sources of power                                                                              |                         | 3.3     | 3.6  | 3.3          | 3.6 |
| К3            | Knowledge of the effect that a loss or malfunction of the                                              | (41.7 / 45.4)           |         |      |              |     |
|               | A.C. ELECTRICAL DISTRIBUTION will have on                                                              | ()                      |         |      |              |     |
|               | following:                                                                                             |                         |         |      |              |     |
| K3.01         | Major system loads                                                                                     |                         | 3.5     | 3.7  | 3.5          | 3.7 |
| K3.02         | Emergency generators                                                                                   |                         | 3.8     | 4.2  | 3.8          | 4.2 |
| K3.03         | D.C. electrical distribution                                                                           |                         | 2.9     | 3.2  | 2.9          | 3.2 |
| K3.04         | Uninterruptible power supply                                                                           |                         | 3.1     | 3.3  | 3.1          | 3.3 |
| K3.05         | Off-site power system                                                                                  |                         | 3.2     | 3.5  | 3.2          | 3.5 |
| <b>K</b> 3.06 | Reactor protection system                                                                              |                         | 3.8     | 4.1* | 3.8          | 4.1 |
| K4            | Knowledge of A.C. ELECTRICAL DISTRIBUTION<br>design feature(s) and/or interlocks which provide for the | (41.7)                  |         |      |              |     |
|               | following:                                                                                             |                         |         |      |              |     |
| K4.01         | Bus lockouts                                                                                           |                         | 3.0     | 3.4  | 3.0          | 3.4 |
| K4.02         | Circuit breaker automatic trips                                                                        |                         | 2.9     | 3.3  | 2.9          | 3.3 |
| K4.03         | Interlocks between automatic bus transfer and breakers                                                 |                         | 3.1     | 3.4  | 3.1          | 3.4 |
| K4.04         | Protective relaving                                                                                    |                         | 2.8     | 3.1  | 2.8          | 3.1 |
| K4.05         | Paralleling of A.C. sources (synchroscope)                                                             |                         | 3.4     | 3.6  | 3.4          | 3.6 |
| K4.06         | Redundant power sources to vital buses                                                                 |                         | 3.6     | 3.9  | 3.6          | 3.9 |
| К5            | Knowledge of the operational implications of the                                                       | (41.5 / 45.3)           |         |      |              |     |
|               | following concepts as they apply to A.C. ELECTRICAL<br>DISTRIBUTION:                                   | -                       |         |      |              |     |
| K5.01         | Principle involved with paralleling two A.C. sources                                                   |                         | 3.1     | 3.4  | 3.1          | 3.4 |
| K5.02         | Breaker control                                                                                        |                         | 2.6     | 2.9  | 2.6          | 2.9 |
|               |                                                                                                        |                         |         |      |              |     |

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| System | Numb <u>er:</u> | 262001 |
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Facility: CPS

|       | System Name: A.C. Electrical Distribution                                                                                                                                                                                                         |         | NRC | lmp  | <u>Facili</u> | <u>ty l</u> r |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|------|---------------|---------------|
|       |                                                                                                                                                                                                                                                   | CFR     | RO  | SRO  | RO            | <br>L         |
| K6    | Knowledge of the effect that a loss or malfunction of the (41.7 / following will have on the A.C. ELECTRICAL DISTRIBUTION:                                                                                                                        | 45.7)   |     |      |               |               |
| K6.01 | D.C. power                                                                                                                                                                                                                                        |         | 3.1 | 3.4  | 3.1           | 3.4           |
| K6.02 | Off-site power                                                                                                                                                                                                                                    |         | 3.6 | 3.9  | 3.6           | 3.9           |
| K6.03 | Generator trip                                                                                                                                                                                                                                    |         | 3.5 | 3.7  | 3.5           | 3.7           |
| Al    | Ability to predict and/or monitor changes in parameters (41.5 / associated with operating the A.C. ELECTRICAL DISTRIBUTION controls including:                                                                                                    | 45.5)   |     |      |               |               |
| A1.01 | Effect on instrumentation and controls of switching power supplies                                                                                                                                                                                |         | 3.1 | 3.4  | 3.1           | 3.4           |
| A1.02 | Effects of loads when energizing a bus                                                                                                                                                                                                            |         | 3.1 | 3.5  | 3.1           | 3.5           |
| A1.03 | Bus voltage                                                                                                                                                                                                                                       |         | 2.9 | 3.1  | 2.9           | 3.1           |
| A1.04 | Load currents                                                                                                                                                                                                                                     |         | 2.7 | 2.9  | 2.7           | 2.9           |
| A1.05 | Breaker lineups                                                                                                                                                                                                                                   |         | 3.2 | 3.5  | 3.2           | 3.5           |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / A.C. ELECTRICAL DISTRIBUTION; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: | 45.6)   |     |      |               |               |
| A2 01 | Turbine/generator trin                                                                                                                                                                                                                            |         | 3.4 | 3.6  | 3.4           | 3.0           |
| A2 02 | Loss of coolant accident                                                                                                                                                                                                                          |         | 3.6 | 3.9  | 3.6           | 3.9           |
| A2 03 | Loss of off-site power                                                                                                                                                                                                                            |         | 3.9 | 4.3* | 3.9           | 4.3           |
| A2.04 | Types of loads that, if deenergized, would degrade or<br>hinder plant operation                                                                                                                                                                   |         | 3.8 | 4.2  | 3.8           | 4.2           |
| A2.05 | Bus grounds                                                                                                                                                                                                                                       |         | 2.9 | 3.3  | 2.9           | 3.3           |
| A2.06 | Deenergizing a plant bus                                                                                                                                                                                                                          |         | 2.7 | 2.9  | 2.7           | 2.9           |
| A2.07 | Energizing a dead bus                                                                                                                                                                                                                             |         | 3.0 | 3.2  | 3.0           | 3.2           |
| A2.08 | Opening a disconnect under load                                                                                                                                                                                                                   |         | 3.3 | 3.6  | 3.3           | 3.6           |
| A2.09 | Exceeding voltage limitations                                                                                                                                                                                                                     |         | 3.1 | 3.4  | 3.1           | <u>3.4</u>    |
| A2.10 | Exceeding current limitations                                                                                                                                                                                                                     |         | 2.9 | 3.4  | 2.9           | 3.4           |
| A2.11 | Degraded system voltages                                                                                                                                                                                                                          |         | 3.2 | 3.6  | 3.2           | 3.6           |
| A3    | Ability to monitor automatic operations of the A.C. (41.7 / ELECTRICAL DISTRIBUTION including:                                                                                                                                                    | ( 45.7) |     |      |               |               |
| A3.01 | Breaker tripping                                                                                                                                                                                                                                  |         | 3.1 | 3.2  | 3.1           | 3.2           |
| A3.02 | Automatic bus transfer                                                                                                                                                                                                                            |         | 3.2 | 3.3  | 3.2           | 3.3           |
| A3.03 | Load shedding                                                                                                                                                                                                                                     |         | 3.4 | 3.5  | 3.4           | 3.5           |
| A3.04 | Load sequencing                                                                                                                                                                                                                                   |         | 3.4 | 3.6  | 3.4           | 3.6           |

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|       | Facility: CPS                                                                         |            | Printed: 08/11/200 |               |        |  |  |  |
|-------|---------------------------------------------------------------------------------------|------------|--------------------|---------------|--------|--|--|--|
|       | System Number: 262001                                                                 |            |                    |               |        |  |  |  |
|       | System Name: A.C. Electrical Distribution                                             | <u>NRC</u> | <u>lmp</u>         | <u>Facili</u> | ty lmp |  |  |  |
|       | CFR                                                                                   | RO         | SRO                | RO            | SRO    |  |  |  |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room: |            |                    |               |        |  |  |  |
| A4.01 | All breakers and disconnects (including available switch yard): Plant-Specific        | 3.4        | 3.7                | 3.4           | 3.7    |  |  |  |
| A4.02 | Synchroscope, including understanding of running and incoming voltages                | 3.4        | 3.4                | 3.4           | 3.4    |  |  |  |
| A4.03 | Local operation of breakers                                                           | 3.2        | 3.4                | 3.2           | 3.4    |  |  |  |
| A4.04 | Synchronizing and paralleling of different A.C. supplies                              | 3.6        | 3.7                | 3.6           | 3.7    |  |  |  |
| A4.05 | Voltage, current, power, and frequency on A.C. buses                                  | 3.3        | 3.3                | 3.3           | 3.3    |  |  |  |

Facility: CPS

System Number: 262002

|                | System Name: Uninterruptable Power Supply (A.C./I                                                                                | ).C.)                            | <u>NRC</u> | Imp  | <u>Facili</u> | ty Imp |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|------|---------------|--------|
| ~              |                                                                                                                                  | CFR                              | RO         | SRO  | RO            | SRO    |
| K1             | Knowledge of the physical connections and/or cause-<br>effect relationships between UNINTERRUPTABLE                              | (41.2 to 41.9 / 45.7 to<br>45.8) |            |      |               |        |
| V 1 01         | POWER SUPPLY (A.C./D.C.) and the following:                                                                                      |                                  | 70         | 2.0  | 20            | 2.0    |
| K1.01          | DEDT control: Diord Gracico                                                                                                      |                                  | 2.0        | 2.0  | 2.0<br>2.0    | 2.0    |
| K1.02          | RFP1 control: Plant-Specific                                                                                                     |                                  | 2.8        | 3.0  | 2.8           | 3.0    |
| K1.03          | Rod position information: Plant-Specific                                                                                         |                                  | 2.7        | 2.9  | 2.7           | 2.9    |
| K1.04          | Reactor manual control: Plant-Specific                                                                                           |                                  | 2.8        | 3.0  | 2.8           | 3.0    |
| K1.05          | Plant-Specific                                                                                                                   |                                  | 2.1        | 2.9  | 2.7           | 2.9    |
| K1.06          | Unit computer: Plant-Specific                                                                                                    |                                  | 2.6        | 2.7  | 2.6           | 2.7    |
| K1.07          | Rod worth minimizer: Plant-Specific                                                                                              |                                  | 2.8        | 2.9  | 2.8           | 2.9    |
| K1.08          | Containment isolation system: Plant-Specific                                                                                     |                                  | 2.9        | 3.1  | 2.9           | 3.1    |
| K1.09          | Drywell ventilation control: Plant Specific                                                                                      |                                  | 2.5        | 2.7  | 2.5           | 2.7    |
| K1.10          | Fire protection system: Plant-Specific                                                                                           |                                  | 2.6        | 2.8  | 2.6           | 2.8    |
| K1.11          | Control room recorders: Plant-Specific                                                                                           |                                  | 2.5        | 2.6  | 2.5           | 2.6    |
| K1.12          | Generator hydrogen and stator cooling water controls:<br>Plant-Specific                                                          |                                  | 2.1*       | 2.3* | 2.1           | 2.3    |
| K1.13          | Recirculation pump speed control: Plant-Specific                                                                                 |                                  | 2.5        | 2.6  | 2.5           | 2.6    |
| K1.14          | Main steam line radiation monitors: Plant-Specific                                                                               |                                  | 2.8        | 3.0  | 2.8           | 3.0    |
| K1.15          | Stack gas monitors: Plant-Specific                                                                                               |                                  | 2.7        | 3.0  | 2.7           | 3.0    |
| K1.16          | MSIV's: Plant-Specific                                                                                                           |                                  | 3.1        | 3.2  | 3.1           | 3.2    |
| K1.17          | Scram solenoid valves: Plant-Specific                                                                                            |                                  | 3.1        | 3.3  | 3.1           | 3.3    |
| K1.18          | Process radiation monitoring system: Plant-Specific                                                                              |                                  | 2.5        | 2.7  | 2.5           | 2.7    |
| <b>~</b> К1.19 | Power range neutron monitoring system: Plant-Specific                                                                            |                                  | 2.9*       | 3.1* | 2.9           | 3.1    |
| K1.20          | Plant communications equipment: Plant-Specific                                                                                   |                                  | 2.4        | 2.7  | 2.4           | 2.7    |
| К3             | Knowledge of the effect that a loss or malfunction of the<br>UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.)<br>will have on following: | (41.7 / 45.4)                    |            |      |               |        |
| K3 ())         | Water level control: Diant-Specific                                                                                              |                                  | 31         | 33   | 31            | 33     |

| Water level control: Plant-Specific         | 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Recirculation pump speed: Plant-Specific    | 2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.9                                                                                                                                                                                                                                                                                                                                                    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| RFPT speed: Plant-Specific                  | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.1                                                                                                                                                                                                              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| Fire protection system: Plant-Specific      | 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.7                                                                                                                                                                                                              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| Rod worth minimizer: Plant-Specific         | 2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0                                                                                                                                                                                                              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| Rod position indication: Plant-Specific     | 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.9                                                                                                                                                                                                              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| Movement of control rods: Plant-Specific    | 2.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.8                                                                                                                                                                                                              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| Computer operation: Plant-Specific          | 2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.8                                                                                                                                                                                                              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| Drywell ventilation control: Plant-Specific | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.7                                                                                                                                                                                                              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| Containment isolation: Plant-Specific       | 2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.8                                                                                                                                                                                                              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| MSIV's: Plant-Specific                      | 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.9                                                                                                                                                                                                              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| Control rod drive mechanism: Plant-Specific | 2.3*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.5                                                                                                                                                                                                              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| Rx pressure: Plant-Specific                 | 2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.9                                                                                                                                                                                                              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| Rx power: Plant-Specific                    | 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.1                                                                                                                                                                                                              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| Main turbine operation: Plant-Specific      | 2.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.7                                                                                                                                                                                                              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| Control room recorders: Plant-Specific      | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.6                                                                                                                                                                                                              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| Process monitoring: Plant-Specific          | 2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.1                                                                                                                                                                                                              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|                                             | <ul> <li>Water level control: Plant-Specific</li> <li>Recirculation pump speed: Plant-Specific</li> <li>RFPT speed: Plant-Specific</li> <li>Fire protection system: Plant-Specific</li> <li>Rod worth minimizer: Plant-Specific</li> <li>Rod position indication: Plant-Specific</li> <li>Movement of control rods: Plant-Specific</li> <li>Computer operation: Plant-Specific</li> <li>Drywell ventilation control: Plant-Specific</li> <li>Containment isolation: Plant-Specific</li> <li>Control rod drive mechanism: Plant-Specific</li> <li>Rx pressure: Plant-Specific</li> <li>Rx power: Plant-Specific</li> <li>Main turbine operation: Plant-Specific</li> <li>Control room recorders: Plant-Specific</li> <li>Process monitoring: Plant-Specific</li> </ul> | Water level control: Plant-Specific3.1Recirculation pump speed: Plant-Specific2.9RFPT speed: Plant-Specific3.0Fire protection system: Plant-Specific2.5Rod worth minimizer: Plant-Specific2.9Rod position indication: Plant-Specific2.8Movement of control rods: Plant-Specific2.6Computer operation: Plant-Specific2.7Drywell ventilation control: Plant-Specific2.7Drywell ventilation: Plant-Specific2.8Control rod drive mechanism: Plant-Specific2.8Control rod drive mechanism: Plant-Specific2.3*Rx pressure: Plant-Specific2.7Rx power: Plant-Specific2.8Main turbine operation: Plant-Specific2.7Ag process monitoring: Plant-Specific2.8Main turbine operation: Plant-Specific2.8Main turbine operation: Plant-Specific2.8Main turbine operation: Plant-Specific2.6Control room recorders: Plant-Specific2.4Process monitoring: Plant-Specific2.4Process monitoring: Plant-Specific2.4 | Water level control: Plant-Specific3.13.3Recirculation pump speed: Plant-Specific2.92.9RFPT speed: Plant-Specific3.03.1Fire protection system: Plant-Specific2.52.7Rod worth minimizer: Plant-Specific2.93.0Rod position indication: Plant-Specific2.82.9Movement of control rods: Plant-Specific2.62.8Computer operation: Plant-Specific2.72.8Drywell ventilation control: Plant-Specific2.72.8Drywell ventilation: Plant-Specific2.72.8MSIV's: Plant-Specific2.72.8MSIV's: Plant-Specific2.3*2.5Rx pressure: Plant-Specific2.72.9Rx power: Plant-Specific2.83.1Main turbine operation: Plant-Specific2.83.1Main turbine operation: Plant-Specific2.83.1Main turbine operation: Plant-Specific2.62.7Control room recorders: Plant-Specific2.62.7Querter operation: Plant-Specific2.42.6 <td>Water level control: Plant-Specific<math>3.1</math><math>3.3</math><math>3.1</math>Recirculation pump speed: Plant-Specific<math>2.9</math><math>2.9</math><math>2.9</math>RFPT speed: Plant-Specific<math>3.0</math><math>3.1</math><math>3.0</math>Fire protection system: Plant-Specific<math>2.5</math><math>2.7</math><math>2.5</math>Rod worth minimizer: Plant-Specific<math>2.9</math><math>3.0</math><math>2.9</math>Rod position indication: Plant-Specific<math>2.8</math><math>2.9</math><math>2.8</math>Movement of control rods: Plant-Specific<math>2.6</math><math>2.8</math><math>2.9</math>Computer operation: Plant-Specific<math>2.7</math><math>2.8</math><math>2.7</math>Drywell ventilation control: Plant-Specific<math>2.7</math><math>2.8</math><math>2.7</math>Drywell ventilation control: Plant-Specific<math>2.7</math><math>2.8</math><math>2.7</math>MSIV's: Plant-Specific<math>2.8</math><math>2.9</math><math>2.8</math>Control rod drive mechanism: Plant-Specific<math>2.7</math><math>2.8</math><math>2.7</math>Rx pressure: Plant-Specific<math>2.7</math><math>2.8</math><math>3.1</math><math>2.8</math>Main turbine operation: Plant-Specific<math>2.8</math><math>3.1</math><math>2.8</math>Main turbine operation: Plant-Specific<math>2.6</math><math>2.7</math><math>2.6</math>Control room recorders: Plant-Specific<math>2.6</math><math>2.7</math><math>2.6</math>Control room recorders: Plant-Specific<math>2.4</math><math>2.6</math><math>2.4</math>Process monitoring: Plant-Specific<math>2.9</math><math>3.1</math><math>2.9</math></td> | Water level control: Plant-Specific $3.1$ $3.3$ $3.1$ Recirculation pump speed: Plant-Specific $2.9$ $2.9$ $2.9$ RFPT speed: Plant-Specific $3.0$ $3.1$ $3.0$ Fire protection system: Plant-Specific $2.5$ $2.7$ $2.5$ Rod worth minimizer: Plant-Specific $2.9$ $3.0$ $2.9$ Rod position indication: Plant-Specific $2.8$ $2.9$ $2.8$ Movement of control rods: Plant-Specific $2.6$ $2.8$ $2.9$ Computer operation: Plant-Specific $2.7$ $2.8$ $2.7$ Drywell ventilation control: Plant-Specific $2.7$ $2.8$ $2.7$ Drywell ventilation control: Plant-Specific $2.7$ $2.8$ $2.7$ MSIV's: Plant-Specific $2.8$ $2.9$ $2.8$ Control rod drive mechanism: Plant-Specific $2.7$ $2.8$ $2.7$ Rx pressure: Plant-Specific $2.7$ $2.8$ $3.1$ $2.8$ Main turbine operation: Plant-Specific $2.8$ $3.1$ $2.8$ Main turbine operation: Plant-Specific $2.6$ $2.7$ $2.6$ Control room recorders: Plant-Specific $2.6$ $2.7$ $2.6$ Control room recorders: Plant-Specific $2.4$ $2.6$ $2.4$ Process monitoring: Plant-Specific $2.9$ $3.1$ $2.9$ |

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Facility:

CPS

|        | <u>System Number:</u>                                                              | 262002                                                                                                                                                                                            |               |      |                   |                     |             |
|--------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|-------------------|---------------------|-------------|
|        | System Name: Uninterruptable Power Supply (A.C./D.C.)                              |                                                                                                                                                                                                   |               |      | <u>Imp</u><br>SRO | <u>Facili</u><br>RO | <u>iy I</u> |
| K4     | Knowledge of (A.C./D.C.) des                                                       | UNINTERRUPTABLE POWER SUPPLY<br>sign feature(s) and/or interlocks which                                                                                                                           | (41.7)        |      |                   |                     | -           |
| K4.01  | provide for the<br>Transfer from                                                   | preferred power to alternate power supplies                                                                                                                                                       |               | 3.1  | 3.4               | 3.1                 | 3.4         |
| К5     | Knowledge of (<br>following conc<br>UNINTERRU                                      | the operational implications of the<br>epts as they apply to<br>PTABLE POWER SUPPLY (A.C./D.C.):                                                                                                  | (41.5 / 45.3) |      |                   |                     |             |
| K 5 01 | General princ                                                                      | iples of static inverter operation                                                                                                                                                                |               | 2.3* | 2.3               | 2.3                 | 2.3         |
| K5 02  | General princi                                                                     | ples of motor generator operation: Plant-Spec                                                                                                                                                     | fie           | 2.4  | 2.5               | 2.4                 | 2.5         |
| K5.02  | General princi                                                                     | ples of inertia fly wheel operation: Plant Spee                                                                                                                                                   | ifie          | 2.3* | 2.4*              | 2.3                 | 2.4         |
| K5.04  | General princ                                                                      | iples of static switch operation                                                                                                                                                                  |               | 2.1* | 2.2*              | 2.1                 | 2.2         |
| K6     | Knowledge of<br>following will<br>POWER SUPI                                       | the effect that a loss or malfunction of the<br>have on the UNINTERRUPTABLE<br>PLY (A.C./D.C.):                                                                                                   | (41.7 / 45.7) |      |                   |                     |             |
| K6 01  | A.C. electrica                                                                     | l power                                                                                                                                                                                           |               | 2.7  | 2.9               | 2.7                 | 2.9         |
| K6 02  | D.C. electrica                                                                     | l nower                                                                                                                                                                                           |               | 2.8  | 3.1               | 2.8                 | 3.1         |
| K6.03  | Static inverter                                                                    | r                                                                                                                                                                                                 |               | 2.7  | 2.9               | 2.7                 | 2.9         |
| Al     | Ability to pred<br>associated witl<br>POWER SUPI                                   | lict and/or monitor changes in parameters<br>h operating the UNINTERRUPTABLE<br>PLY (A.C./D.C.) controls including:                                                                               | (41.5 / 45.5) |      |                   |                     |             |
| A1.01  | Inverter elect                                                                     | rical outputs                                                                                                                                                                                     |               | 2.4  | 2.6               | 2.4                 | 2.6         |
| A1.02  | Motor generat                                                                      | or outputs                                                                                                                                                                                        |               | 2.5  | 2.9               | 2.5                 | 2.9         |
| A2     | Ability to (a) p<br>UNINTERRU<br>and (b) based<br>correct, contro<br>abnormal cont | predict the impacts of the following on the<br>PTABLE POWER SUPPLY (A.C./D.C.);<br>on those predictions, use procedures to<br>ol, or mitigate the consequences of those<br>ditions or operations: | (41.5 / 45.6) |      |                   |                     |             |
| A 2 01 | Under voltage                                                                      |                                                                                                                                                                                                   |               | 2.6  | 2.8               | 2.6                 | 2.8         |
| A2 02  | Over voltage                                                                       | -                                                                                                                                                                                                 |               | 2.5  | 2.7               | 2.5                 | 2.7         |
| A2 03  | Ereauency ch                                                                       | panges in the system                                                                                                                                                                              |               | 2.4* | 2.6               | 2.4                 | 2.6         |
| A2.04  | Abnormal bat                                                                       | tery operation: BWR-1                                                                                                                                                                             |               | 3.2  | 3.4               | 3.2                 | 3.4         |
| A3     | Ability to mon<br>UNINTERRU<br>including:                                          | nitor automatic operations of the<br>PTABLE POWER SUPPLY (A.C./D.C.)                                                                                                                              | (41.7 / 45.7) |      |                   |                     |             |
| A3.01  | Transfer fron                                                                      | n preferred to alternate source                                                                                                                                                                   |               | 2.8  | 3.1               | 2.8                 | 3.1         |
|        |                                                                                    | -                                                                                                                                                                                                 |               |      |                   |                     |             |

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|       | Facility: CPS                                         |                                                    |                 | 1/2006  |     |              |     |
|-------|-------------------------------------------------------|----------------------------------------------------|-----------------|---------|-----|--------------|-----|
|       | System Number:                                        | 262002                                             |                 |         |     |              |     |
|       | System Name: Uninterruptable Power Supply (A.C./D.C.) |                                                    |                 | NRC Imp |     | Facility Imp |     |
|       |                                                       |                                                    | CFR             | RO      | SRO | RO           | SRO |
| A4    | Ability to manu<br>room:                              | ally operate and/or monitor in the control (41.7 / | ( 45.5 to 45.8) |         |     |              |     |
| A4.01 | Transfer from                                         | alternative source to preferred source             |                 | 2.8     | 3.1 | 2.8          | 3.1 |

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|               | Facility: CPS                                                                                                                                |                                  |      | Printe | d: 08/1       | 1/2006 |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|--------|---------------|--------|
|               | System Number: 263000                                                                                                                        |                                  |      |        |               |        |
|               | System Name: D.C. Electrical Distribution                                                                                                    |                                  | NRC  | Imp    | <u>Facili</u> | ty Imp |
| · • • ·       |                                                                                                                                              | CFR                              | RO   | SRO    | RO            | SRO    |
| K1            | Knowledge of the physical connections and/or cause-<br>effect relationships between D.C. ELECTRICAL<br>DISTRIBUTION and the following:       | (41.2 to 41.9 / 45.7 to<br>45.8) |      |        |               |        |
| K1.01         | A.C. electrical distribution                                                                                                                 |                                  | 3.3  | 3.5    | 3.3           | 3.5    |
| K1.02         | Battery charger and battery                                                                                                                  |                                  | 3.2  | 3.3    | 3.2           | 3.3    |
| K1.03         | Battery ventilation                                                                                                                          |                                  | 2.6  | 2.8    | 2.6           | 2.8    |
| K1.04         | Ground detection                                                                                                                             |                                  | 2.6  | 2.9    | 2.6           | 2.9    |
| К2            | Knowledge of electrical power supplies to the following:                                                                                     | (41.7)                           |      |        |               |        |
| K2.01         | Major D.C. loads                                                                                                                             |                                  | 3.1  | 3.4    | 3.1           | 3.4    |
| K2.02         | Battery room ventilation                                                                                                                     |                                  | 2.1* | 2.2*   | 2.1           | 2.2    |
| КЗ            | Knowledge of the effect that a loss or malfunction of the D.C. ELECTRICAL DISTRIBUTION will have on following:                               | (41.7 / 45.4)                    |      |        |               |        |
| K3.01         | Emergency generators: Plant-Specific                                                                                                         |                                  | 3.4  | 3.8    | 3.4           | 3.8    |
| K3.02         | Components using D.C. control power (i.e. breakers)                                                                                          |                                  | 3.5  | 3.8    | 3.5           | 3.8    |
| <b>K3</b> .03 | Systems with D.C. components (i.e. valves, motors, solenoids, etc.)                                                                          |                                  | 3.4  | 3.8    | 3.4           | 3.8    |
| 4             | Knowledge of D.C. ELECTRICAL DISTRIBUTION design feature(s) and/or interlocks which provide for the following:                               | (41.7)                           |      |        |               |        |
| K4.01         | Manual/ automatic transfers of control: Plant-Specific                                                                                       |                                  | 3.1  | 3.4    | 3.1           | 3.4    |
| K4.02         | Breaker interlocks, permissives, bypasses and cross ties:<br>Plant-Specific                                                                  |                                  | 3.1  | 3.5    | 3.1           | 3.5    |
| К5            | Knowledge of the operational implications of the following concepts as they apply to D.C. ELECTRICAL DISTRIBUTION:                           | (41.5 / 45.3)                    |      |        |               |        |
| K5.01         | Hydrogen generation during battery charging                                                                                                  |                                  | 2.6  | 2.9    | 2.6           | 2.9    |
| K6            | Knowledge of the effect that a loss or malfunction of the following will have on the D.C. ELECTRICAL DISTRIBUTION:                           | (41.7 / 45.7)                    |      |        |               |        |
| K6.01         | A.C. electrical distribution                                                                                                                 |                                  | 3.2  | 3.5    | 3.2           | 3.5    |
| K6.02         | Battery ventilation                                                                                                                          |                                  | 2.5  | 2.6    | 2.5           | 2.6    |
| Al            | Ability to predict and/or monitor changes in parameters<br>associated with operating the D.C. ELECTRICAL<br>DISTRIBUTION controls including: | (41.5 / 45.5)                    |      |        |               |        |
| A1.01         | Battery charging/discharging rate                                                                                                            |                                  | 2.5  | 2.8    | 2.5           | 2.8    |
|               |                                                                                                                                              |                                  |      |        |               |        |

|       | Facility: CPS                                                                                                                                                                                                                                              |                    |            | Printe | d: 0 <b>8</b> /1 | 1/2006       |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------|------------------|--------------|
|       | System Number: 263000                                                                                                                                                                                                                                      |                    |            |        |                  |              |
|       | System Name: D.C. Electrical Distribution                                                                                                                                                                                                                  |                    | <u>NRC</u> | Imp    | <u>Facilit</u>   | <u>y I</u> r |
|       |                                                                                                                                                                                                                                                            | CFR                | RO         | SRO    | RO               | ĸ.           |
| A2    | Ability to (a) predict the impacts of the following on the (41.<br>D.C. ELECTRICAL DISTRIBUTION; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations: | .5 / 45.6)         |            |        |                  |              |
| A2.01 | Grounds                                                                                                                                                                                                                                                    |                    | 2.8        | 3.2    | 2.8              | 3.2          |
| A2.02 | Loss of ventilation during charging                                                                                                                                                                                                                        |                    | 2.6        | 2.9    | 2.6              | 2.9          |
| A3    | Ability to monitor automatic operations of the D.C. (41.<br>ELECTRICAL DISTRIBUTION including:                                                                                                                                                             | .7 / 45.7)         |            |        |                  |              |
| A3.01 | Meters, dials, recorders, alarms, and indicating lights                                                                                                                                                                                                    |                    | 3.2        | 3.3    | 3.2              | 3.3          |
| A4    | Ability to manually operate and/or monitor in the control (41. room:                                                                                                                                                                                       | .7 / 45.5 to 45.8) |            |        |                  |              |
| A4.01 | Major breakers and control power fuses: Plant-Specific                                                                                                                                                                                                     |                    | 3.3        | 3.5    | 3.3              | 3.5          |
| A4.02 | Battery voltage indicator: Plant-Specific                                                                                                                                                                                                                  |                    | 3.2        | 3.1    | 3.2              | 3.1          |
| A4.03 | Battery discharge rate: Plant-Specific                                                                                                                                                                                                                     |                    | 2.7        | 2.8    | 2.7              | 2.8          |
| A4.04 | Ground detection circuit: Plant-Specific                                                                                                                                                                                                                   |                    | 3.0        | 3.2    | 3.0              | 3.2          |

|                | Facility: CPS                   |                                                                                    |                         |      | Printe | d: 08/1 | 1/2006 |
|----------------|---------------------------------|------------------------------------------------------------------------------------|-------------------------|------|--------|---------|--------|
|                | System Number:                  | 264000                                                                             |                         |      |        |         |        |
|                | System Name                     | Emergency Cenerators (Diesel/Jet)                                                  |                         | NRC  | Imp    | Facilit | w Imn  |
|                | System Name:                    | Emergency Generators (Diesenser)                                                   | CFR                     | RO   | SRO    | RO      | SRO    |
| К1             | Knowledge of t                  | he physical connections and/or cause-                                              | (41.2 to 41.9 / 45.7 to |      |        |         |        |
|                | effect relationsl               | hips between EMERGENCY<br>S (DIFSEL/IFT) and the following:                        | 45.8)                   |      |        |         |        |
| K1 01          | A C electrical                  | distribution                                                                       |                         | 38   | 41     | 3.8     | 4.1    |
| K1.01          | D C electrical                  | distribution                                                                       |                         | 3.3  | 3.4    | 3.3     | 3.4    |
| K1.02          | Fire protection                 | a system                                                                           |                         | 2.9  | 3.2    | 2.9     | 3.2    |
| K1.05          | Emergency ge                    | nerator cooling water system                                                       |                         | 3.2  | 33     | 32      | 3.3    |
| K1.04          | Emergency ge                    | nerator fuel oil supply system                                                     |                         | 3.2  | 33     | 3.2     | 3.3    |
| K1.05          | Storting system                 |                                                                                    |                         | 3.2  | 3.2    | 32      | 3.2    |
| K1.00<br>K1.07 | Emergency co                    | re cooling systems                                                                 |                         | 3.9  | 4.1    | 3.9     | 4.1    |
|                |                                 |                                                                                    |                         |      |        |         |        |
| К2             | Knowledge of e                  | electrical power supplies to the following:                                        | (41.7)                  |      |        |         |        |
| K2.01          | Air compresso                   | pr                                                                                 |                         | 2.2* | 2.4*   | 2.2     | 2.4    |
| K2.02          | Fuel oil pumps                  | S                                                                                  |                         | 2.2* | 2.4*   | 2.2     | 2.4    |
| K2.03          | <del>Turning gear (j</del>      | et engine): Plant-Specific                                                         |                         | 2.0* | 2.3*   | 2.0     | 2.3    |
| K2.04          | Ignition system                 | (jet engine): Plant Specific                                                       |                         | 2.3* | 2.7*   | 2.3     | 2.7    |
| K2.05          | Lube oil pump                   | 05                                                                                 |                         | 2.3* | 2.4*   | 2.3     | 2.4    |
| K2.06          | Battery charge                  | er                                                                                 |                         | 2.2* | 2.2*   | 2.2     | 2.2    |
| K2.07          | Emergency ge                    | nerator field flash                                                                |                         | 2.1* | 2.3*   | 2.1     | 2.3    |
| •<3            | Knowledge of t<br>EMERGENCY     | he effect that a loss or malfunction of the<br>' GENERATORS (DIESEL/JET) will have | (41.7 / 45.4)           |      |        |         |        |
|                | on following:                   |                                                                                    |                         | 4.04 |        | 4.0     |        |
| K3.01          | Emergency co                    | re cooling systems                                                                 |                         | 4.2* | 4.4*   | 4.2     | 4.4    |
| K3.02          | A.C. electrical                 | distribution                                                                       |                         | 3.9  | 4.0    | 3.9     | 4.0    |
| K3.03          | Major loads pe<br>emergency get | owered from electrical buses fed by the nerator(s)                                 |                         | 4.1* | 4.2*   | 4.1     | 4.2    |
| K4             | Knowledge of I<br>(DIESEL/JET)  | EMERGENCY GENERATORS<br>design feature(s) and/or interlocks which                  | (41.7)                  |      |        |         |        |
|                | provide for the                 | following:                                                                         |                         |      |        |         |        |
| K4.01          | Emergency ge                    | enerator trips (normal)                                                            |                         | 3.5  | 3.7    | 3.5     | 3.7    |
| K4.02          | Emergency ge                    | enerator trips (emergency/LOCA)                                                    |                         | 4.0  | 4.2    | 4.0     | 4.2    |
| K4.03          | Speed droop c                   | control                                                                            |                         | 2.5  | 2.7    | 2.5     | 2.7    |
| K4.04          | Field flashing                  |                                                                                    |                         | 2.6  | 2.7    | 2.6     | 2.7    |
| K4.05          | Load shedding                   | g and sequencing                                                                   |                         | 3.2  | 3.5    | 3.2     | 3.5    |
| K4.06          | Governor con                    | trol                                                                               |                         | 2.6  | 2.7    | 2.6     | 2.7    |
| K4.07          | Local operation                 | on and control                                                                     |                         | 3.3  | 3.4    | 3.3     | 3.4    |
| K4.08          | Automatic sta                   | rtup                                                                               |                         | 3.8  | 3.7    | 3.8     | 3.7    |

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|       | Facility: CPS                                   | 5                                                                                                             |               |      | Printe | ed: 08/1 | 1/2006 |
|-------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|------|--------|----------|--------|
|       | System Number:                                  | 264000                                                                                                        |               |      |        |          |        |
|       | System Name:                                    | Emergency Generators (Diesel/Jet)                                                                             |               | NRC  | Imp    | Facili   | ty Ir  |
|       |                                                 | g                                                                                                             | CFR           | k RO | SRO    | RO       | Ľ      |
| К5    | Knowledge of a<br>following conce<br>GENERATOR  | the operational implications of the<br>epts as they apply to EMERGENCY<br>& (DIESEL/JET):                     | (41.5 / 45.3) |      |        |          |        |
| K5.01 | Definition of                                   | frequency and synchronous frequency                                                                           |               | 2.0* | 2.1*   | 2.0      | 2.1    |
| K5.02 | Reactive pow                                    | er control                                                                                                    |               | 2.0* | 2.1*   | 2.0      | 2.1    |
| K5.03 | Real power co                                   | ontrol                                                                                                        |               | 2.4* | 2.4*   | 2.4      | 2.4    |
| K5.04 | Governor con                                    | trol                                                                                                          |               | 2.4  | 2.5    | 2.4      | 2.5    |
| K5.05 | Paralleling A.                                  | C. power sources                                                                                              |               | 3.4  | 3.4    | 3.4      | 3.4    |
| K5.06 | Load sequenc                                    | ing                                                                                                           |               | 3.4  | 3.5    | 3.4      | 3.5    |
| K5.07 | Sneed droop                                     | <i>c</i>                                                                                                      |               | 2.3  | 2.4    | 2.3      | 2.4    |
| K6    | Knowledge of t<br>following will I<br>GENERATOR | the effect that a loss or malfunction of the have on the EMERGENCY                                            | (41.7 / 45.7) |      |        |          |        |
| K6 01 | Starting air                                    |                                                                                                               |               | 3.8  | 3.9    | 3.8      | 3.9    |
| K6 02 | Fuel oil pump                                   | 15                                                                                                            |               | 3.6  | 3.6    | 3.6      | 3.6    |
| K6 03 | Lube oil num                                    | ns                                                                                                            |               | 3.5  | 3.7    | 3.5      | 3.7    |
| K6 04 | Turning-gear (                                  | iet engine): Plant-Specific                                                                                   |               | 2.5  | 2.5    | 2.5      | 2.5    |
| K6 05 | Ignition system                                 | n (iet engine): Plant-Specific                                                                                |               | 2.5  | 3.0    | 2.5      | 3.0    |
| K6 06 | Battery charge                                  | er                                                                                                            |               | 2.9  | 3.1    | 2.9      | 3.1    |
| K6 07 | Cooling water                                   | r system                                                                                                      |               | 3.8  | 3.9    | 3.8      | 3.9    |
| K6 08 | A C nower                                       |                                                                                                               |               | 3.6  | 3.7    | 3.6      | 3.     |
| K6.09 | D.C. power                                      |                                                                                                               |               | 3.3  | 3.5    | 3.3      | 3.     |
| A1    | Ability to pred<br>associated with<br>GENERATOR | lict and/or monitor changes in parameters<br>a operating the EMERGENCY<br>RS (DIESEL/JET) controls including: | (41.5 / 45.5) |      |        |          |        |
| A1 01 | Lube oil temr                                   | verature                                                                                                      |               | 3.0* | 3.0*   | 3.0      | 3.0    |
| A1.02 | Fuel consum                                     | otion rate                                                                                                    |               | 2.2* | 2.3    | 2.2      | 2.3    |
| A1 03 | Onerating vol                                   | tages, currents, and temperatures                                                                             |               | 2.8  | 2.9    | 2.8      | 2.9    |
| A1 04 | Crank case te                                   | mperature and pressure                                                                                        |               | 2.6  | 2.7    | 2.6      | 2.7    |
| A1.05 | Cylinder tem                                    | perature differential                                                                                         |               | 2.4* | 2.4*   | 2.4      | 2.4    |
| A1.06 | Emergency of                                    | enerator room temperature                                                                                     |               | 2.3  | 2.4    | 2.3      | 2.4    |
| A1 07 | Gas concretor                                   | temperature: Plant-Specific                                                                                   |               | 2.0* | 2.5    | 2.0      | 2.5    |
| A1 09 | Gas generator                                   | enced: Plant-Specific                                                                                         |               | 2.0* | 2.5    | 2.0      | 2.5    |
| A1.09 | Maintaining r<br>prevent rever                  | ninimum load on emergency generator (to se power)                                                             |               | 3.0  | 3.1    | 3.0      | 3.1    |

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Facility: CPS

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|       | System Name: Emergency Generators (Diesel/Jet)                               | NRC  | NRC Imp |     | Facility Imp |  |
|-------|------------------------------------------------------------------------------|------|---------|-----|--------------|--|
| • *   | CFI                                                                          | R RO | SRO     | RO  | SRO          |  |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / 45.6)     |      |         |     |              |  |
|       | EMERGENCY GENERATORS (DIESEL/JET); and (b)                                   |      |         |     |              |  |
|       | based on those predictions, use procedures to correct,                       |      |         |     |              |  |
|       | control, or mitigate the consequences of those abnormal                      |      |         |     |              |  |
|       | conditions or operations:                                                    |      |         |     |              |  |
| A2.01 | Parallel operation of emergency generator                                    | 3.5  | 3.6     | 3.5 | 3.6          |  |
| A2.02 | Unloading prior to securing emergency generator                              | 3.1  | 3.1     | 3.1 | 3.1          |  |
| A2.03 | Operating unloaded, lightly loaded, and highly loaded                        | 3.4  | 3.4     | 3.4 | 3.4          |  |
| A2.04 | Consequences of operating under/over excited                                 | 2.9  | 3.0     | 2.9 | 3.0          |  |
| A2.05 | Synchronization of the emergency generator with other electrical supplies    | 3.6  | 3.6     | 3.6 | 3.6          |  |
| A2.06 | Opening normal and/or alternate power to emergency bus                       | 3.4  | 3.4     | 3.4 | 3.4          |  |
| A2.07 | Loss of off-site power during full-load testing                              | 3.5  | 3.7     | 3.5 | 3.7          |  |
| A2.08 | Initiation of emergency generator room fire protection system                | 3.3  | 3.7     | 3.3 | 3.7          |  |
| A2.09 | Loss of A.C. power                                                           | 3.7  | 4.1     | 3.7 | 4.1          |  |
| A2.10 | LOCA                                                                         | 3.9  | 4.2*    | 3.9 | 4.2          |  |
| A3    | Ability to monitor automatic operations of the (41.7 / 45.7)                 |      |         |     |              |  |
|       | EMERGENCY GENERATORS (DIESEL/JET)                                            |      |         |     |              |  |
|       | including:                                                                   |      |         |     |              |  |
| A3.01 | Automatic starting of compressor and emergency generator                     | 3.0  | 3.1     | 3.0 | 3.1          |  |
| A3.02 | Minimum time for load pick up                                                | 3.1  | 3.1     | 3.1 | 3.1          |  |
| A3.03 | Indicating lights, meters, and recorders                                     | 3.4  | 3.4     | 3.4 | 3.4          |  |
| A3.04 | Operation of the governor control system on frequency and voltage control    | 3.1  | 3.1     | 3.1 | 3.1          |  |
| A3.05 | Load shedding and sequencing                                                 | 3.4  | 3.5     | 3.4 | 3.5          |  |
| A3.06 | Cooling water system operation                                               | 3.1  | 3.2     | 3.1 | 3.2          |  |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45 | .8)  |         |     |              |  |
|       | room:                                                                        |      |         |     |              |  |
| A4.01 | Adjustment of exciter voltage                                                | 3.3  | 3.4     | 3.3 | 3.4          |  |
| A4.02 | Synchroscope                                                                 | 3.4  | 3.4     | 3.4 | 3.4          |  |
| A4.03 | Transfer of emergency control between manual and automatic                   | 3.2  | 3.4     | 3.2 | 3.4          |  |
| A4.04 | Manual start, loading, and stopping of emergency generator: Plant-Specific   | 3.7  | 3.7     | 3.7 | 3.7          |  |
| A4.05 | Transfer of emergency generator (with load) to grid                          | 3.6  | 3.7     | 3.6 | 3.7          |  |
| A4.06 | Droop setting                                                                | 2.4* | 2.8*    | 2.4 | 2.8          |  |

|                  | Facility: CPS                                    |                                                                             |                                  |      | Printe     | d: 08/1       | 1/2006       |
|------------------|--------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|------|------------|---------------|--------------|
|                  | System Number:                                   | 268000                                                                      |                                  |      |            |               |              |
|                  | System Name:                                     | Radwaste                                                                    |                                  | NRC  | <u>lmp</u> | <u>Facili</u> | <u>y Imp</u> |
| See 1            |                                                  |                                                                             | CFR                              | RO   | SRO        | RO            | SRO          |
| K1               | Knowledge of t<br>effect relations               | he physical connections and/or cause-<br>hips between RADWASTE and the      | (41.2 to 41.9 / 45.7 to<br>45.8) |      |            |               |              |
| 771.01           | following:                                       |                                                                             |                                  | 2.2  | 2.6        | 2.2           | 24           |
| KJ.01<br>K1.02   | Condensate sy                                    |                                                                             |                                  | 2.2  | 2.0        | 2.2           | 2.0          |
| K1.02<br>K1.02   | Plant air syste<br>Pootor buildi                 | ms<br>na aquinment drains: Dient Specific                                   |                                  | 2.1  | 2.4        | 2.1           | 2.4          |
| K1.05            | Reactor build                                    | ng floor drains: Plant-Specific                                             |                                  | 2.0  | 2.9        | 2.0           | 2.9          |
| K 1.04<br>K 1.05 | Dravall aquin                                    | ment drains                                                                 |                                  | 2.7  | 2.9        | 2.7           | 3.2          |
| K1.05            | Drywell floor                                    | drains                                                                      |                                  | 2.9  | 3.2        | 2.9           | 3.2          |
| K1.00            | Reactor water                                    |                                                                             |                                  | 2.5  | 2.2<br>2.9 | 2.9           | 2.9          |
| K107             | Fuel pool                                        | cicalup                                                                     |                                  | 2.0  | 2.2        | 2.0           | 2.9          |
| K1.00            | FCCS systeme                                     | S                                                                           |                                  | 2.6  | 2.8        | 2.6           | 2.8          |
| K1.09            | Auxiliary stea                                   | m: Plant-Specific                                                           |                                  | 2.2  | 2.4        | 2.2           | 2.4          |
| K1.10            | Applicable co                                    | mponent cooling water system                                                |                                  | 2.2  | 2.4        | 2.2           | 2.4          |
| K1.12            | Suppression n                                    | 00                                                                          |                                  | 2.3  | 2.5        | 2.3           | 2.5          |
| K1.13            | Auxiliary buil                                   | ding floor drains: Plant-Specific                                           |                                  | 2.2  | 2.4        | 2.2           | 2.4          |
| K1.14            | Auxiliary buil                                   | ding equipment drains: Plant-Specific                                       |                                  | 2.0* | 2.2        | 2.0           | 2.2          |
| K1.15            | Offgas system                                    |                                                                             |                                  | 2.3  | 2.5        | 2.3           | 2.5          |
| K1.16            | Circulating wa                                   | ater system: Plant-Specific                                                 |                                  | 2.3  | 2.5        | 2.3           | 2.5          |
| К3               | Knowledge of t<br>RADWASTE v                     | he effect that a loss or malfunction of the vill have on following:         | (41.5 / 45.3)                    |      |            |               |              |
| <b>—</b> K3.01   | RWCU system                                      | n                                                                           |                                  | 2.4  | 2.5        | 2.4           | 2.5          |
| K3.02            | Condensate sy                                    | stem                                                                        |                                  | 2.2  | 2.4        | 2.2           | 2.4          |
| K3.03            | ECCS systems                                     | S                                                                           |                                  | 2.2* | 2.4        | 2.2           | 2.4          |
| K3.04            | Drain sumps                                      |                                                                             |                                  | 2.7  | 2.8        | 2.7           | 2.8          |
| K3.05            | Fuel pools: Pl                                   | ant-Specific                                                                |                                  | 2.1  | 2.4        | 2.1           | 2.4          |
| К5               | Knowledge of t                                   | he operational implications of the                                          | (41.5 / 45.3)                    |      |            |               |              |
| <b>V5</b> 01     | tollowing conce                                  | epts as they apply to KADWASTE:                                             |                                  | 27   | 3.0        | 27            | 3.0          |
| K5.02            | Radiation haz                                    | ards and ALARA concept                                                      |                                  | 3.1  | 3.6*       | 3.1           | 3.6          |
| K6               | Knowledge of t                                   | he effect that a loss or malfunction of the                                 | (41.7)                           |      |            |               |              |
|                  | following will h                                 | ave on the RADWASTE:                                                        |                                  |      |            |               |              |
| K6.01            | Applicable co                                    | mponent cooling water system                                                |                                  | 2.2  | 2.5        | 2.2           | 2.5          |
| K6.02            | Plant air syste                                  | ms                                                                          |                                  | 2.3  | 2.6        | 2.3           | 2.6          |
| K6.03            | Building venti                                   | ilation                                                                     |                                  | 2.4  | 2.7        | 2.4           | 2.7          |
| K6.04            | Circulating wa                                   | ater                                                                        |                                  | 2.1* | 2.3        | 2.1           | 2.3          |
| A1               | Ability to pred<br>associated with<br>including: | ict and/or monitor changes in parameters<br>operating the RADWASTE controls | (41.5 / 45.5)                    |      |            |               |              |
| 41.01            | Radiation leve                                   | 21                                                                          |                                  | 2.7* | 3.1*       | 2.7           | 3.1          |
| A1.02            | Off-site releas                                  | e                                                                           |                                  | 2.6* | 3.6*       | 2.6           | 3.6          |

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|       | Facility: CPS                                                                                                                                                                                                                      |                     |         | Printe | d: 08/1     | 1/2006 |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|--------|-------------|--------|
|       | System Number: 268000                                                                                                                                                                                                              |                     |         |        |             |        |
|       | <u>System Name:</u> Radwaste                                                                                                                                                                                                       |                     | NRC Imp |        | Imp Facilit |        |
|       |                                                                                                                                                                                                                                    | CFR                 | RO      | SRO    | RO          | ۲.     |
| A2    | Ability to (a) predict the impacts of the following on the (4)<br>RADWASTE; and (b) based on those predictions, use<br>procedures to correct, control, or mitigate the<br>consequences of those abnormal conditions or operations: | 1.5 / 45.6)         |         |        |             |        |
| A2.01 | System rupture                                                                                                                                                                                                                     |                     | 2.9     | 3.5    | 2.9         | 3.5    |
| A2.02 | High turbidity water                                                                                                                                                                                                               |                     | 2.3     | 2.7    | 2.3         | 2.7    |
| A2.03 | Loss of steam supply                                                                                                                                                                                                               |                     | 2.0*    | 2.3    | 2.0         | 2.3    |
| A4    | Ability to manually operate and/or monitor in the control (4) room:                                                                                                                                                                | 1.7 / 45.5 to 45.8) |         |        |             |        |
| A4.01 | Sump integrators                                                                                                                                                                                                                   |                     | 3.4     | 3.6    | 3.4         | 3.6    |

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|        | Facility: CPS                                                                                                        |                                  | Printed: 08/11/200 |      |        |        |  |
|--------|----------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------|------|--------|--------|--|
|        | System Number: 271000                                                                                                |                                  |                    |      |        |        |  |
|        | System Name: Offage System                                                                                           |                                  | NRC                | Imn  | Facili | tv Imn |  |
|        | System (value, Ofigas System)                                                                                        | CFR                              | RO                 | SRO  | RO     | SRO    |  |
| K1     | Knowledge of the physical connections and/or cause-<br>effect relationships between OFFGAS SYSTEM and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |                    |      |        |        |  |
| K 1 01 | Condenser air removal system                                                                                         |                                  | 3.1                | 3.1  | 3.1    | 3.1    |  |
| K1.07  | Process radiation monitoring system                                                                                  |                                  | 3.1                | 3.3  | 3.1    | 3.3    |  |
| K1.02  | Flevated release point                                                                                               |                                  | 2.7                | 3.0  | 2.7    | 3.0    |  |
| K1.05  | Condensate system                                                                                                    |                                  | 2.7                | 2.7  | 2.7    | 2.7    |  |
| K1.04  | Radwaste system                                                                                                      |                                  | 2.3                | 2.5  | 2.3    | 2.5    |  |
| K1.05  | Main steam system                                                                                                    |                                  | 2.8                | 2.9  | 2.8    | 2.9    |  |
| K1.00  | Plant air systems                                                                                                    |                                  | 2.7                | 2.7  | 2.7    | 2.7    |  |
| K1.07  | Ovugen injection system: Plant Specific                                                                              |                                  | 2.3                | 2.3  | 2.3    | 2.3    |  |
| K1 00  | Component cooling water systems                                                                                      |                                  | 2.6                | 2.6  | 2.6    | 2.6    |  |
| K1 10  | Condenser vacuum                                                                                                     |                                  | 3.2                | 3.3  | 3.2    | 3.3    |  |
| K1 11  | *Station radioactive release rate                                                                                    |                                  | 3.1                | 3.6  | 3.1    | 3.6    |  |
| K1 12  | A C electrical distribution                                                                                          |                                  | 2.3                | 2,4  | 2.3    | 2.4    |  |
| K1.12  | Process sampling system                                                                                              |                                  | 2.6                | 2.8  | 2.6    | 2.8    |  |
| K1.14  | Radwaste sparging air: Design-Specific                                                                               |                                  | 2.0*               | 2.5  | 2.0    | 2.5    |  |
| K2     | Knowledge of electrical power supplies to the following:                                                             | (41.7)                           | 15*                | 15*  | 15     | 15     |  |
| K2.01  | Glycol pumps                                                                                                         |                                  | 1.5*               | 1.5* | 1.5    | 1.5    |  |
| ЖЗ     | Knowledge of the effect that a loss or malfunction of the OFFGAS SYSTEM will have on following:                      | (41.5 / 45.3)                    |                    |      |        |        |  |
| K3.01  | Condenser vacuum                                                                                                     |                                  | 3.5                | 3.5  | 3.5    | 3.5    |  |
| K3.02  | †Off-site radioactive release rate                                                                                   |                                  | 3.3                | 3.9  | 3.3    | 3.9    |  |
| K4     | Knowledge of OFFGAS SYSTEM design feature(s)<br>and/or interlocks which provide for the following:                   | (41.7)                           |                    |      |        |        |  |
| K4.01  | Dilution of hydrogen gas concentration                                                                               |                                  | 2.9                | 3.3  | 2.9    | 3.3    |  |
| K4.02  | Prevention of the poisoning of the recombiner catalyst by                                                            |                                  | 2.6                | 2.7  | 2.6    | 2.7    |  |
|        | the presence of water                                                                                                |                                  |                    |      |        |        |  |
| K4.03  | Maintenance of sufficient oxygen gas inventory to allow for complete hydrogen recombination: Plant-Specific          |                                  | 2.4                | 2.8  | 2.4    | 2.8    |  |
| K4.04  | The prevention of hydrogen explosions and/or fires                                                                   |                                  | 3.3                | 3.6  | 3.3    | 3.6    |  |
| K4.05  | Redundancy                                                                                                           |                                  | 2.6                | 2.6  | 2.6    | 2.6    |  |
| K4.06  | Decay of fission product gases to particulate daughters                                                              |                                  | 2.7                | 2.9  | 2.7    | 2.9    |  |
| K4.07  | Maximizing charcoal bed efficiency                                                                                   |                                  | 2.6                | 2.7  | 2.6    | 2.7    |  |
| K4.08  | Automatic system isolation                                                                                           |                                  | 3.1                | 3.3  | 3.1    | 3.3    |  |
| K4.09  | Filtration of radioactive particulate                                                                                |                                  | 2.8                | 3.1  | 2.8    | 3.1    |  |

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|       | Facility: CPS                                                                                       |                 |      | ed: 08/11/200 |             |            |
|-------|-----------------------------------------------------------------------------------------------------|-----------------|------|---------------|-------------|------------|
|       | System Number: 271000                                                                               |                 |      |               |             |            |
|       | System Name: Offgas System                                                                          |                 | NRC  | Ішр           | Facility Ir |            |
|       |                                                                                                     | CFR             | RO   | SRO           | RO          | <u>S</u> . |
| К5    | Knowledge of the operational implications of the                                                    | (41.7 / 45.4)   |      |               |             |            |
|       | following concepts as they apply to OFFGAS SYSTEM:                                                  | :               |      |               |             |            |
| K5.01 | Air operated valve operation                                                                        |                 | 2.3  | 2.3           | 2.3         | 2.3        |
| K5.02 | Heat removal mechanisms                                                                             |                 | 2.2  | 2.2           | 2.2         | 2.2        |
| K5.03 | Heat addition mechanisms                                                                            |                 | 2.2* | 2.2           | 2.2         | 2.2        |
| K5.04 | Hydrogen concentration measurement                                                                  |                 | 2.9  | 3.1           | 2.9         | 3.1        |
| K5.05 | Oxygen concentration measurement                                                                    |                 | 2.8  | 2.9           | 2.8         | 2.9        |
| K5.06 | Catalytic recombination                                                                             |                 | 2.7  | 2.7           | 2.7         | 2.7        |
| K5.07 | Radioactive decay                                                                                   |                 | 2.7  | 2.9           | 2.7         | 2.9        |
| K5.08 | Charcoal absorption of fission product gases                                                        |                 | 2.5  | 2.6           | 2.5         | 2.6        |
| K5.09 | Hydrogen and oxygen recombination                                                                   |                 | 2.6  | 2.8           | 2.6         | 2.8        |
| K5.10 | Decontamination factors                                                                             |                 | 2.0* | 2.3*          | 2.0         | 2.3        |
| K5.11 | Explain the necessity of reducing relative humidity for carbon bed filters                          |                 | 2.6  | 2.8           | 2.6         | 2.8        |
| K6    | Knowledge of the effect that a loss or malfunction of the following will have on the OFFGAS SYSTEM: | e (41.7 / 45.7) |      |               |             |            |
| K6.01 | Plant air systems                                                                                   |                 | 2.7  | 2.8           | 2.7         | 2.8        |
| K6.02 | Process radiation monitoring system                                                                 |                 | 3.0  | 3.2           | 3.0         | 3.2        |
| K6.03 | Component cooling water systems                                                                     |                 | 2.4  | 2.4           | 2.4         | 2.4        |
| K6.04 | Dilution steam                                                                                      |                 | 2.8  | 2.8           | 2.8         | 2.8        |
| K6.05 | Heating steam: Design-Specific                                                                      |                 | 2.4  | 2.4           | 2.4         | 2          |
| K6.06 | Oxygen injection system: Plant-Specific                                                             |                 | 2.5  | 2.5           | 2.5         | 2          |
| K6.07 | A.C. electrical distribution                                                                        |                 | 2.4  | 2.5           | 2.4         | 2.5        |
| K6.08 | Condenser air removal system                                                                        |                 | 2.9  | 3.0           | 2.9         | 3.0        |
| K6.09 | Fuel cladding integrity                                                                             |                 | 3.4  | 3.6           | 3.4         | 3.6        |
| K6.10 | Condensate system flow                                                                              |                 | 2.7  | 2.8           | 2.7         | 2.8        |
| K6.11 | Condenser vacuum                                                                                    |                 | 3.2  | 3.3           | 3.2         | 3.3        |
| K6.12 | Glycol system                                                                                       |                 | 2.1* | 2.2*          | 2.1         | 2.2        |
| K6.13 | Plant exhaust: BWR-1                                                                                |                 | 3.0  | 3.4           | 3.0         | 3.4        |
|       |                                                                                                     |                 |      |               |             |            |
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|       | KA Catalog                                                                                                                                  |            |         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
|       | Facility: CPS                                                                                                                               |            | Pr      |
|       | System Number: 271000                                                                                                                       |            |         |
|       | System Name: Offgas System                                                                                                                  | NRC        | Imp     |
|       | CFR                                                                                                                                         | RO         | SRO     |
| A1    | Ability to predict and/or monitor changes in parameters (41.5 / 45.5)<br>associated with operating the OFFGAS SYSTEM controls<br>including: |            |         |
| A1.01 | Condenser vacuum                                                                                                                            | 3.3        | 3.3     |
| A1.02 | Station radioactive release rate                                                                                                            | 3.0        | 3.0     |
| A1.03 | Preheater discharge temperature                                                                                                             | 2.2*       | 2.      |
| A1.04 | Recombiner catalyst temperature                                                                                                             | 2.2*       | 2.4     |
| A1.05 | Cooler condenser discharge temperature                                                                                                      | 2.2*       | 2.4     |
| A1.06 | Filter differential pressure                                                                                                                | 2,4*       | 2.      |
| A1.07 | Charcoal bed humidity                                                                                                                       | 2.4*       | 2.      |
| A1.08 | System flow                                                                                                                                 | 3.1        | 3.      |
| A1.09 | Charcoal bed temperature                                                                                                                    | 2.1*       | 2.      |
| A1.10 | Charcoal vault temperature                                                                                                                  | 2.3        | 2.      |
| A1.11 | Offgas condenser temperatures                                                                                                               | 2.3        | 2.      |
| A1.12 | Process radiation monitoring indications                                                                                                    | 3.1        | 3.      |
| A1.13 | Hydrogen gas concentration                                                                                                                  | 3.2        | 3.      |
| A1.14 | Oxygen gas concentration                                                                                                                    | 2.7        | 3.      |
| A1.15 | Steam supply pressures                                                                                                                      | 2.7        | 2.      |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / 45.6)<br>OFFGAS SYSTEM; and (b) based on those predictions,              |            |         |
|       | use procedures to correct, control, or untigate the                                                                                         |            |         |
| A2 01 | Low condensor vacuum                                                                                                                        | 3 1        | 3       |
| A2.01 | Low condenser vacuum                                                                                                                        | 20         | ງ.<br>ຊ |
| A2.02 | Low dilution steam flow                                                                                                                     | 2.5        | 3.<br>2 |
| A2.03 | Main steamine righ radiation                                                                                                                | 3.5        | э.<br>Л |
| A2.04 | Origas system high radiation                                                                                                                | 5.1<br>5.5 | 4.<br>ว |
| A2.05 | High charcoal bed humidity                                                                                                                  | 2,3        | 2.      |

| A2.04 | Offgas system high radiation                | 3.7 | 4.1 | 3.7 | 4.1 |
|-------|---------------------------------------------|-----|-----|-----|-----|
| A2.05 | High charcoal bed humidity                  | 2.5 | 2.9 | 2.5 | 2.9 |
| A2.06 | Offgas system holdup volume explosion/ fire | 3.5 | 3.9 | 3.5 | 3.9 |
| A2.07 | Low oxygen injection flow: Plant Specific   | 2.7 | 3.3 | 2.7 | 3.3 |
| A2.08 | A.C. distribution failures                  | 2.5 | 2.7 | 2.5 | 2.7 |
| A2.09 | Valve closures                              | 2.6 | 2.8 | 2.6 | 2.8 |
| A2.10 | Offgas system high flow                     | 3.1 | 3.3 | 3.1 | 3.3 |
| A2.11 | Offgas system low flow                      | 2.8 | 2.9 | 2.8 | 2.9 |
| A2.12 | Recombiner high temperature                 | 2.7 | 2.9 | 2.7 | 2.9 |
| A2.13 | Recombiner low temperature                  | 2.4 | 2.8 | 2.4 | 2.8 |
| A2.14 | Offgas filter high differential pressure    | 2.6 | 2.8 | 2.6 | 2.8 |
| A2.15 | Air intrusion                               | 2.7 | 2.9 | 2.7 | 2.9 |
| A2.16 | Loss of offgas system loop seals            | 2.9 | 3.2 | 2.9 | 3.2 |
| A2.17 | Reactor power changes                       | 2.9 | 3.1 | 2.9 | 3.1 |

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| System Number:         771000           System Name:         Offgas System         Ref Imp         Ref Imp <thref imp<="" th=""> <thref imp<="" th="">         Ref Imp</thref></thref>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | Facility: CPS                                                                            |     | Printe | ed: 08/1      | 1/2006            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------|-----|--------|---------------|-------------------|
| System Name:         Offgas System         NRC Imp<br>CFR         NRC Imp<br>RO         Facility I<br>RO         Facility I<br>RO           A3         Ability to monitor automatic operations of the OFFGAS         (41.7 / 45.7)<br>SYSTEM including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | System Number: 271000                                                                    |     |        |               |                   |
| CFR         RO         SRO         RO         .           A3         Ability to monitor automatic operations of the OFFGAS         (41.7 / 45.7)         .         .           SYSTEM including:         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.4         3.6         3.4         3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | System Name: Offgas System                                                               | NRC | Imp    | <u>Facili</u> | ty I <sup>.</sup> |
| A3       Ability to monitor automatic operations of the OFFGAS (41.7 / 45.7)<br>SYSTEM including:         A3.01       Automatic system isolations       3.3       3.3       3.3       3.3         A3.02       System flows       2.9       2.8       2.9       2.8         A3.03       System temperatures       2.8       2.8       2.8       2.8       2.8         A3.04       †Station radioactive release rate: Plant-Specific       3.0       3.8       3.0       3.8         A3.05       System indicating lights and alarms       2.9       2.9       2.9       2.9       2.9         A3.06       System differential pressures       2.5       2.5       2.5       2.5       2.5         A3.07       †Process radiation monitoring system indications       3.4       3.6       3.4       3.6         A4       Ability to manually operate and/or monitor in the control       (41.7 / 45.5 to 45.8)       700m:         A4.01       Reset system isolations       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | CFR                                                                                      | RO  | SRO    | RO            |                   |
| A3.01Automatic system isolations $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$ $3.3$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A3     | Ability to monitor automatic operations of the OFFGAS (41.7 / 45.7)<br>SYSTEM including: |     |        |               |                   |
| A3.02       System flows       2.9       2.8       2.9       2.8         A3.03       System temperatures       2.8       2.8       2.8       2.8       2.8         A3.04       †Station radioactive release rate: Plant-Specific       3.0       3.8       3.0       3.8         A3.05       System indicating lights and alarms       2.9       2.9       2.9       2.9       2.9         A3.06       System differential pressures       2.5       2.5       2.5       2.5       2.5         A3.07       †Process radiation monitoring system indications       3.4       3.6       3.4       3.6         A4       Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)       7       7         room:       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A3.01  | Automatic system isolations                                                              | 3.3 | 3.3    | 3.3           | 3.3               |
| A3.03System temperatures2.82.82.82.82.82.82.8A3.04 $\uparrow$ Station radioactive release rate: Plant-Specific3.03.83.03.8A3.05System indicating lights and alarms2.92.92.92.92.9A3.06System differential pressures2.52.52.52.52.52.5A3.07 $\uparrow$ Process radiation monitoring system indications3.43.63.43.6A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room:A4.01Reset system isolations2.82.82.82.8A4.02System temperatures2.82.82.82.82.8A4.03System temperatures2.82.82.82.82.8A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Off concers radiation monitoring system3.23.63.23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A3.02  | System flows                                                                             | 2.9 | 2.8    | 2.9           | 2.8               |
| A3.04       †Station radioactive release rate: Plant-Specific       3.0       3.8       3.0       3.8         A3.05       System indicating lights and alarms       2.9       2.9       2.9       2.9       2.9         A3.06       System differential pressures       2.5       2.5       2.5       2.5       2.5       2.5       2.5         A3.07       †Process radiation monitoring system indications       3.4       3.6       3.4       3.6         A4       Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8) room:       2.8       2.8       2.8       2.8       2.8       2.8         A4.01       Reset system isolations       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9 <td>A3.03</td> <td>System temperatures</td> <td>2.8</td> <td>2.8</td> <td>2.8</td> <td>2.8</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A3.03  | System temperatures                                                                      | 2.8 | 2.8    | 2.8           | 2.8               |
| A3.05System indicating lights and alarms2.92.92.92.92.92.9A3.06System differential pressures $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$ $2.5$ $2.4$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A3.04  | +Station radioactive release rate: Plant-Specific                                        | 3.0 | 3.8    | 3.0           | 3.8               |
| A3.06System differential pressures $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.5$ $2.6$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.8$ $2.$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A3.05  | System indicating lights and alarms                                                      | 2.9 | 2.9    | 2.9           | 2.9               |
| A3.07†Process radiation monitoring system indications3.43.63.43.6A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room:2.82.82.82.8A4.01Reset system isolations2.82.82.82.92.92.92.9A4.02System flows2.92.92.92.92.92.92.92.9A4.03System temperatures2.82.82.82.82.82.82.82.82.8A4.04Condenser vacuum3.43.53.43.53.43.53.43.5A4.05Station radioactive release rate3.23.93.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.23.33.2A4.08Process radiation monitoring system3.23.63.23.63.23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A3.06  | System differential pressures                                                            | 2.5 | 2.5    | 2.5           | 2.5               |
| A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room:A4.01Reset system isolations2.82.82.82.8A4.02System flows2.92.92.92.9A4.03System temperatures2.82.82.82.82.8A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A3.07  | †Process radiation monitoring system indications                                         | 3.4 | 3.6    | 3.4           | 3.6               |
| A4.01Reset system isolations2.82.82.82.82.8A4.02System flows2.92.92.92.92.9A4.03System temperatures2.82.82.82.82.8A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Q25Q4Q55Q4Q55Q4Q55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A4     | Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)          |     |        |               |                   |
| A4.01Resci system isolations2.62.62.62.6A4.02System flows2.92.92.92.92.9A4.03System temperatures2.82.82.82.82.8A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Qffand the protein system3.33.23.33.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A A 01 | Poole system isolations                                                                  | 2.8 | 2.8    | 28            | 28                |
| A4.02System hows2.52.52.5A4.03System temperatures2.82.82.82.8A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Qffand the protein temperature3.33.23.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A4.03  | System flows                                                                             | 2.0 | 2.0    | 2.9           | 2.0               |
| A4.05System temperatures2.62.62.6A4.04Condenser vacuum3.43.53.43.5A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Offand alarms3.23.33.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A4.02  | System temperatures                                                                      | 2.8 | 2.8    | 2.8           | 2.8               |
| A4.05Station radioactive release rate3.23.93.23.9A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.09Offand alarms3.23.63.23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A4.03  | Condenser vacuum                                                                         | 3.4 | 3.5    | 3.4           | 3.5               |
| A4.06System indicating lights and alarms3.33.23.33.2A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.00Qffand alarms3.23.63.23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A4.05  | Station radioactive release rate                                                         | 3.2 | 3.9    | 3.2           | 39                |
| A4.07System differential pressures2.42.52.42.5A4.08Process radiation monitoring system3.23.63.23.6A4.00Offand a label and | A4 06  | System indicating lights and alarms                                                      | 3.3 | 3.2    | 3.3           | 3.2               |
| A4.08Process radiation monitoring system3.23.63.23.6A4.00OffImage: A system3.23.63.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A4 07  | System differential pressures                                                            | 2.4 | 2.5    | 2.4           | 2.5               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A4 08  | Process radiation monitoring system                                                      | 3.2 | 3.6    | 3.2           | 3.6               |
| A4.09 Utigas system controls/components 5.3 5.2 5.3 5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A4.09  | Offgas system controls/components                                                        | 3.3 | 3.2    | 3.3           | 3.2               |

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|              | Facility: CPS                                                                  |                            |      | Printe | d: 08/1 | 1/2006 |
|--------------|--------------------------------------------------------------------------------|----------------------------|------|--------|---------|--------|
|              | System Number: 272000                                                          |                            |      |        |         |        |
|              | System Name: Radiation Monitoring System                                       |                            | NRC  | Imn    | Facili  | tv Imn |
| 5.2          | System Traine: Radiation Monitoring System                                     | CFR                        | RO   | SRO    | RO      | SRO    |
| K1           | Knowledge of the physical connections and/or caus                              | e- (41.2 to 41.9 / 45.7 to |      |        |         |        |
|              | effect relationships between RADIATION<br>MONITORING SYSTEM and the following: | 45.8)                      |      |        |         |        |
| K1.01        | Main steam system                                                              |                            | 3.6  | 3.8    | 3.6     | 3.8    |
| K1.02        | Offgas system (augmented offgas): Plant-Specific                               |                            | 3.2  | 3.5    | 3.2     | 3.5    |
| K1.03        | Stack gas: Plant-Specific                                                      |                            | 3.3  | 3.6    | 3.3     | 3.6    |
| K1.04        | Applicable component cooling water system                                      |                            | 2.9  | 2.9    | 2.9     | 2.9    |
| K1.05        | Radwaste system                                                                |                            | 2.8  | 3.1    | 2.8     | 3,1    |
| K1.06        | Reactor building ventilation system: Plant Specific                            |                            | 3.2  | 3.3    | 3.2     | 3.3    |
| K1.07        | Isolation condenser: Plant-Specific                                            |                            | 3.0  | 3.2    | 3.0     | 3.2    |
| K1.08        | Reactor protection system                                                      |                            | 3.6  | 3.9    | 3.6     | 3.9    |
| K1.09        | Primary containment isolation system                                           |                            | 3.6  | 3.8    | 3.6     | 3.8    |
| K1.10        | Reactor building refuel floor: Plant-Specific                                  |                            | 3.4  | 3.6    | 3.4     | 3.6    |
| K1.11        | Reactor building overhead crane; Plant-Specific                                |                            | 2.1* | 2.4*   | 2.1     | 2.4    |
| K1.12        | Reactor building                                                               |                            | 3.1  | 3.2    | 3.1     | 3.2    |
| K1.13        | Turbine building                                                               |                            | 2.9  | 3.0    | 2.9     | 3.0    |
| K1.14        | Radwaste building: Plant-Specific                                              |                            | 2.7  | 2.8    | 2.7     | 2.8    |
| K1.15        | Filter building: Plant-Specific                                                |                            | 2.8  | 3.0    | 2.8     | 3.0    |
| K1.16        | Process computer                                                               |                            | 2.2* | 2.3*   | 2.2     | 2.3    |
| K1.17        | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                            |                            | 2.4  | 2.7    | 2.4     | 2.7    |
| K1.18        | Primary containment/containment building: Plant-S                              | pecific                    | 3.1  | 3.1    | 3.1     | 3.1    |
| K1.19        | Drywell                                                                        | •                          | 3.1  | 3.2    | 3.1     | 3.2    |
| .20          | †Auxiliary building: Plant-Specific                                            |                            | 2.8  | 3.0    | 2.8     | 3.0    |
| -1.21        | Circulating water: Plant-Specific                                              |                            | 2.3  | 2.4    | 2.3     | 2.4    |
| K1.22        | Fuel building: mark-III                                                        |                            | 3.0  | 3.4    | 3.0     | 3.4    |
| <b>K1.23</b> | Continuous air monitoring: Plant-Specific                                      |                            | 3.0  | 3.3    | 3.0     | 3.3    |
| К2           | Knowledge of electrical power supplies to the follo                            | wing: (41.7)               |      |        |         |        |
| K2.01        | Main steamline radiation monitors                                              |                            | 2.5  | 2.8    | 2.5     | 2.8    |
| K2.02        | Offgas radiation monitoring system                                             |                            | 2.5  | 2.8    | 2.5     | 2.8    |
| K2.03        | Stack gas radiation monitoring system                                          |                            | 2.5  | 2.8    | 2.5     | 2.8    |
| K2.04        | Process liquid radiation monitoring system                                     |                            | 2.3  | 2.5    | 2.3     | 2.5    |
| K2.05        | Reactor building ventilation monitors: Plant-Specif                            | ic                         | 2.6  | 2.9    | 2.6     | 2.9    |
| K2.06        | Area radiation monitors                                                        |                            | 2.1* | 2.2*   | 2.1     | 2.2    |
| K2.07        | Control room ventilation monitors: Plant-Specific                              |                            | 2.2* | 2.4*   | 2.2     | 2.4    |

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Area radiation monitors K2.06 Control room ventilation monitors: Plant-Specific K2.07

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| System Number       Radiation Monitoring System       CFR $RO$ $RO$ $RC$ <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | Facility: CPS                                   | 8                                                                                        |               |      | Printe | ed: 08/1 | 1/2006     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------|------------------------------------------------------------------------------------------|---------------|------|--------|----------|------------|
| Sector Name:         Padiation Monitoring System         CFR         NBC Law         Pectity - Pe |       | System Number:                                  | 272000                                                                                   |               |      |        |          |            |
| Kinetic CFR         RO         SRO         RO         S.           K3         Knowledge of the effect that a loss or malfunction of the<br>RADIATION MONITORING System will have on<br>following:         (41.5/ 45.3)         S.         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | System Name:                                    | Radiation Monitoring System                                                              |               | NRC  | Imp    | Facili   | tv In      |
| K3       Knowledge of the effect that a loss or malfunction of the ADIATION MONITORING System will have on following:       (41.5 / 45.3)         K3.01       †Station itquid effluent release monitoring       3.2       3.8       3.2       3.8         K3.02       †Station gasceus effluent release monitoring       3.1       3.8       3.1       3.8         K3.03       Station area radiation monitoring       3.7       3.8       3.7       3.8         K3.04       Main steam system       3.7       3.8       3.7       3.8         K3.05       Offgas system       3.7       3.8       3.7       3.8         K3.06       Reactor building ventilation: Plant-Specific       2.4       3.0       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.10       Control room ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K4.       Knowledge of RADIATION MONITORING System design feature(s) and/or interlocks which provide for the following:       (41.7)       2.7       2.8       2.7       2.8         K4.03       Fail safe tripping of process radiation monitoring logic during conditions of instrument failure       (41.7/ 45.4)       3.0       3.2       3.5       3.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | <u></u>                                         |                                                                                          | CFR           | RO   | SRO    | RO       | <u>s</u> . |
| following:         K3.01       †Station (af Gluent release monitoring       3.2       3.8       3.1       3.8         K3.02       †Station gascous effluent release monitoring       3.1       3.8       3.1       3.8         K3.02       TStation gascous effluent release monitoring       3.1       3.8       3.7       3.8         K3.03       Station area radiation monitoring       3.5       3.7       3.8       3.7       3.8         K3.05       Offgas system       3.5       3.7       3.8       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.4       3.6       3.1       3.8 </td <td>K3</td> <td>Knowledge of RADIATION</td> <td>the effect that a loss or malfunction of the<br/>MONITORING System will have on</td> <td>(41.5 / 45.3)</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K3    | Knowledge of RADIATION                          | the effect that a loss or malfunction of the<br>MONITORING System will have on           | (41.5 / 45.3) |      |        |          |            |
| K3.01       fStation liquid effluent release monitoring       3.2       3.8       3.2       3.8         K3.02       fStation gaseous effluent release monitoring       3.1       3.8       3.1       3.8         K3.03       Station area radiation monitoring       3.1       3.8       3.1       3.8         K3.04       Main steam system       3.7       3.8       3.7       3.8         K3.05       Offgas system       3.5       3.7       3.8       3.7       3.8         K3.06       Reactor building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.06       Reductor building ventilation: Plant-Specific       2.8       3.1       2.8       3.1       2.8         K3.07       Redundarcy       2.7       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       2.8       3.1       3.8       3.1 <td></td> <td>following:</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | following:                                      | -                                                                                        |               |      |        |          |            |
| K3.02       fStation gaseous effluent release monitoring       3.1       3.8       3.1       3.8         K3.03       Station area radiation monitoring       3.2       3.4       3.2       3.4         K3.04       Main stear system       3.7       3.5       3.7       3.5         K3.05       Offgas system       3.5       3.7       3.5       3.7         K3.06       Reactor building ventilation: Plant-Specific       2.4       3.0       2.4       3.0         K3.07       Reactor building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.08       fAuxiliary building ventilation: Plant-Specific       2.8       3.1       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.8       3.1       2.9       3.3         K4       Knowledge of RADIATION MONITORING System (41.7)       (41.7)       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       3.9       3.6       3.9         K4.02       Automatic actions to contain the radioactive release in the event that the predetermined release rates are exceeded       3.7       4.1       3.7       4.1         K5       Knowledge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K3.01 | †Station liqui                                  | d effluent release monitoring                                                            |               | 3.2  | 3.8    | 3.2      | 3.8        |
| K3.03       Station area radiation monitoring       3.2       3.4       3.2       3.4       3.2       3.4         K3.04       Main steam system       3.7       3.8       3.7       3.8       3.7       3.8         K3.05       Ofigas system       3.5       3.7       3.8       3.7       3.8         K3.05       Reactor building ventilation: Plant-Specific       2.4*       3.0       2.4       3.0         K3.09       Radwaste building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.00       Radwaste building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONITORING System design feature(s) and/or interlocks which provide for the following:       (41.7)       2.8       2.7       2.8       2.7       2.8       3.9       3.9         K4.01       Redundancy       2.7       2.8       2.7       2.8       2.7       2.8       3.9       3.6       3.9         K4.02       Automatic actions to contain the radioactive release in the event that the predetermined release rates are exceeded       3.7       4.1       3.7       4.1       3.7       4.1         K4.03       Fail safe tripping of proccess radiation monitoring logic       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K3.02 | †Station gase                                   | ous effluent release monitoring                                                          |               | 3.1  | 3.8    | 3.1      | 3.8        |
| K3.04       Main steam system       3.7       3.8       3.7       3.8       3.7       3.8       3.7       3.8         K3.05       Offgas system       3.5       3.7       3.5       3.7       3.6       3.4         K3.06       Reactor building ventilation: Plant-Specific       2.4*       3.0       2.4       3.0         K3.08       TAuxiliary building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.00       Control room ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONTORING System<br>following:       (41.7)       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       2.7       2.8         K4.02       Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded       3.7       4.1       3.7       4.1         K5       Knowledge of the operation's effect on process radiation<br>indications: Plant-Specific       3.6       3.9       3.6       3.9       3.6       3.9         K6       Knowl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | K3.03 | Station area ra                                 | adiation monitoring                                                                      |               | 3.2  | 3.4    | 3.2      | 3.4        |
| K3.05       Offgas system       3.5       3.7       3.5       3.7       3.5       3.7         K3.06       Reactor building ventilation: Plant-Specific       3.4       3.6       3.4       3.6         K3.07       Reactor building oventilation: Plant-Specific       2.4       3.0       2.4       3.0         K3.09       Radwaste building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONITORING System design feature(s) and/or interlocks which provide for the following:       (41.7)       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       3.0       3.9         K4.02       Automatic actions to contain the radioactive release in the event that the predetermined release rates are exceeded       3.7       4.1       3.7       4.1         K4.03       Fail safe tripping of process radiation monitoring logic       3.6       3.9       3.6       3.9         K5       Knowledge of the operational implications of the following concepts as they apply to RADIATION MONITORING SYSTEM:       (41.7 / 45.4)       3.0       3.2       3.5       3.7 <td>K3.04</td> <td>Main steam s</td> <td>ystem</td> <td></td> <td>3.7</td> <td>3.8</td> <td>3.7</td> <td>3.8</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | K3.04 | Main steam s                                    | ystem                                                                                    |               | 3.7  | 3.8    | 3.7      | 3.8        |
| K3.06       Reactor building ventilation: Plant-Specific       3.4       3.6       3.4       3.6         K3.07       Reactor building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.08       Rdwaste building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.00       Radwaste building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.10       Control room ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONITORING System<br>following:       (41.7)       2.8       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       2.7       2.8         K4.03       Fail safe tripping of process radiation monitoring logic       3.6       3.9       3.6       3.9         during conditions of instrument failure       (41.7 / 45.4)       following concepts as they apply to RADIATION<br>MONITORING SYSTEM:       3.2       3.5       3.2       3.5         K5       Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:       3.0       3.2       3.0       3.2       3.5         K6.01       Reactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K3.05 | Offgas system                                   | 1                                                                                        |               | 3.5  | 3.7    | 3.5      | 3.7        |
| K3.07       Reactor building overhead crane operation: Plant-Specific       2.4*       3.0       2.4       3.0         K3.08       †Auxiliary building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.00       Control room ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONITORING System<br>design feature(s) and/or interlocks which provide for the<br>following:       (41.7)       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       3.0       2.4       3.0         K4.02       Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded       3.6       3.9       3.6       3.9         K4.03       Fail safe tripping of process radiation monitoring logic       3.6       3.9       3.6       3.9         K5       Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:       (41.7 / 45.4)       3.0       3.2       3.5         K6       Knowledge of the effect that a loss or malfunction of the<br>indications: Plant-Specific       3.0       3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K3.06 | Reactor build                                   | ing ventilation: Plant-Specific                                                          |               | 3.4  | 3.6    | 3.4      | 3.6        |
| K3.08       †Auxiliary building ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K3.09       Radwaste building ventilation: Plant-Specific       2.8       3.1       2.8       3.1         K3.10       Control room ventilation: Plant-Specific       2.9       3.3       2.9       3.3         K4       Knowledge of RADIATION MONITORING System<br>design feature(s) and/or interlocks which provide for the<br>following:       (41.7)       2.7       2.8       2.7       2.8         K4.01       Redundancy       2.7       2.8       2.7       2.8       2.7       2.8         K4.02       Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded       3.6       3.9       3.6       3.9         K5       Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:       (41.7 / 45.4)       3.2       3.5       3.2       3.5         K6       Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:       3.0       3.2       3.0       3.2       3.0       3.2         K6.01       Reactor protection system<br>SYSTEM:       3.0       3.2       3.0       3.2       3.0       3.2       3.0       3.2         K6.02 <td>K3.07</td> <td>Reactor build</td> <td>ing overhead crane operation: Plant-Specific</td> <td></td> <td>2.4*</td> <td>3.0</td> <td>2,4</td> <td>3.0</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | K3.07 | Reactor build                                   | ing overhead crane operation: Plant-Specific                                             |               | 2.4* | 3.0    | 2,4      | 3.0        |
| K3.09Radwaste building ventilation: Plant-Specific2.83.12.83.1K3.10Control room ventilation: Plant-Specific2.93.32.93.3K4Knowledge of RADIATION MONITORING System<br>following:<br>K4.01(41.7)2.93.32.93.3K4Knowledge of RADIATION MONITORING System<br>following:<br>event that the predetermined release in the<br>event that the predetermined release rates are exceeded3.74.13.74.1K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>indications: Plant-Specific(41.7 / 45.4)3.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)3.03.23.03.23.03.2K6.01Reactor protection system<br>SUSTEM:3.03.23.03.23.03.23.03.2K6.03A.C. power<br>SUSTEM:2.52.72.52.72.52.72.52.7K6.03A.C. power<br>Continuous air monitoring: Plant-Specific2.42.62.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K3.08 | †Auxiliary bu                                   | ilding ventilation: Plant-Specific                                                       |               | 2.9  | 3.3    | 2.9      | 3.3        |
| K3.10Control room ventilation: Plant-Specific2.93.32.93.3K4Knowledge of RADIATION MONITORING System<br>design feature(s) and/or interlocks which provide for the<br>following:(41.7)K4.01Redundancy2.72.82.72.8K4.02Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded3.74.13.74.1K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)3.23.53.23.5K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.03.23.03.23.03.2K6.01Reactor protection system<br>SYSTEM:3.03.23.03.23.03.2K6.02D.C. power2.52.72.52.72.52.7K6.03A.C. power2.83.02.83.03.0K6.04Process computer<br>Cost D/C power2.83.02.83.03.2K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.4*2.62.4*2.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K3.09 | Radwaste bui                                    | Iding ventilation: Plant-Specific                                                        |               | 2.8  | 3.1    | 2.8      | 3.1        |
| K4Knowledge of RADIATION MONITORING System<br>design feature(s) and/or interlocks which provide for the<br>following:(41.7)K4.01Redundancy2.72.82.72.8K4.02Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded3.74.13.74.1K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)3.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)3.03.23.03.23.03.2K6.02D.C. power2.52.72.52.72.52.72.52.7K6.03A.C. power2.83.02.83.02.83.0K6.04Process computer2.0*2.2*2.02.22.02.2K6.05SPBS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.42.62.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K3.10 | Control room                                    | ventilation: Plant-Specific                                                              |               | 2.9  | 3.3    | 2.9      | 3.3        |
| K4.01Redundancy2.72.82.72.8K4.02Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded3.74.13.74.1K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)3.23.53.23.5K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.23.53.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)3.03.23.03.23.03.2K6.01Reactor protection system<br>(K6.023.03.23.03.23.03.23.03.2K6.02D.C. power<br>(K6.032.52.72.52.72.52.72.52.72.52.72.52.72.53.03.03.03.23.03.03.03.23.03.03.23.03.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.23.03.03.03.23.0 <td< td=""><td>K4</td><td>Knowledge of J<br/>design feature(<br/>following:</td><td>RADIATION MONITORING System<br/>(s) and/or interlocks which provide for the</td><td>(41.7)</td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K4    | Knowledge of J<br>design feature(<br>following: | RADIATION MONITORING System<br>(s) and/or interlocks which provide for the               | (41.7)        |      |        |          |            |
| K4.02Automatic actions to contain the radioactive release in the<br>event that the predetermined release rates are exceeded3.74.13.74.1K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)3.23.53.23.5K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)3.03.23.03.2K6.01Reactor protection system<br>0.2.0.2.23.03.23.03.23.03.2K6.02D.C. power<br>2.62.52.72.52.72.52.7K6.03A.C. power<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | K4 01 | Redundancy                                      |                                                                                          |               | 2.7  | 2.8    | 2.7      | 2.8        |
| K4.03Fail safe tripping of process radiation monitoring logic<br>during conditions of instrument failure3.63.93.63.9K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)3.23.53.23.23.5K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.23.53.23.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)3.03.23.03.23.03.2K6.01Reactor protection system<br>SUSTEM:3.03.23.03.23.03.2K6.02D.C. power<br>2.52.72.52.72.52.7K6.03A.C. power<br>Process computer2.0*2.2*2.02.2K6.04Process computer<br>Continuous air monitoring: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.1*2.4*2.12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K4.02 | Automatic act<br>event that the                 | tions to contain the radioactive release in the predetermined release rates are exceeded |               | 3.7  | 4.1    | 3.7      | 4.1        |
| K5Knowledge of the operational implications of the<br>following concepts as they apply to RADIATION<br>MONITORING SYSTEM:(41.7 / 45.4)K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K4.03 | Fail safe tripp<br>during conditi               | ing of process radiation monitoring logic ons of instrument failure                      |               | 3.6  | 3.9    | 3.6      | 3.9        |
| K5.01Hydrogen injection operation's effect on process radiation<br>indications: Plant-Specific3.23.53.23.5K6Knowledge of the effect that a loss or malfunction of the<br>following will have on the RADIATION MONITORING<br>SYSTEM:(41.7 / 45.7)(41.7 / 45.7)K6.01Reactor protection system3.03.23.03.2K6.02D.C. power2.52.72.52.7K6.03A.C. power2.83.02.83.0K6.04Process computer2.0*2.2*2.02.2K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | К5    | Knowledge of<br>following conc<br>MONITORIN     | the operational implications of the<br>epts as they apply to RADIATION<br>G SYSTEM:      | (41.7 / 45.4) |      |        |          |            |
| K6       Knowledge of the effect that a loss or malfunction of the following will have on the RADIATION MONITORING SYSTEM:       (41.7 / 45.7)         K6.01       Reactor protection system       3.0       3.2       3.0       3.2         K6.02       D.C. power       2.5       2.7       2.5       2.7         K6.03       A.C. power       2.8       3.0       2.8       3.0         K6.04       Process computer       2.0*       2.2*       2.0       2.2         K6.05       SPDS/ERIS/CRID/GDS: Plant-Specific       2.1*       2.4*       2.1       2.4         K6.06       Continuous air monitoring: Plant-Specific       2.4       2.6       2.4       2.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K5.01 | Hydrogen inje<br>indications: P                 | ection operation's effect on process radiation<br>lant-Specific                          |               | 3.2  | 3.5    | 3.2      | 3.5        |
| K6.01Reactor protection system3.03.23.03.2K6.02D.C. power2.52.72.52.7K6.03A.C. power2.83.02.83.0K6.04Process computer2.0*2.2*2.02.2K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K6    | Knowledge of<br>following will l<br>SYSTEM:     | the effect that a loss or malfunction of the have on the RADIATION MONITORING            | (41.7 / 45.7) |      |        |          |            |
| K6.02D.C. power2.52.72.52.7K6.03A.C. power2.83.02.83.0K6.04Process computer2.0*2.2*2.02.2K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K6.01 | Reactor prote                                   | ction system                                                                             |               | 3.0  | 3.2    | 3.0      | 3.2        |
| K6.03A.C. power2.83.02.83.0K6.04Process computer2.0*2.2*2.02.2K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K6.02 | D.C. power                                      | -                                                                                        |               | 2.5  | 2.7    | 2.5      | 2.7        |
| K6.04         Process computer         2.0*         2.2*         2.0         2.2           K6.05         SPDS/ERIS/CRID/GDS: Plant-Specific         2.1*         2.4*         2.1         2.4           K6.06         Continuous air monitoring: Plant-Specific         2.4         2.6         2.4         2.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K6.03 | A.C. power                                      |                                                                                          |               | 2.8  | 3.0    | 2.8      | 3.0        |
| K6.05SPDS/ERIS/CRID/GDS: Plant-Specific2.1*2.4*2.12.4K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K6.04 | Process comp                                    | uter                                                                                     |               | 2.0* | 2.2*   | 2.0      | 2.2        |
| K6.06Continuous air monitoring: Plant-Specific2.42.62.42.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | K6.05 | SPDS/ERIS/C                                     | CRID/GDS: Plant-Specific                                                                 |               | 2.1* | 2.4*   | 2.1      | 2.4        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K6.06 | Continuous ai                                   | r monitoring: Plant-Specific                                                             |               | 2.4  | 2.6    | 2.4      | 2.6        |

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|   |        | System Number:   | 272000                                          |               |     |     |            |        |        |
|---|--------|------------------|-------------------------------------------------|---------------|-----|-----|------------|--------|--------|
|   |        | System Name:     | <b>Radiation Monitoring System</b>              |               |     | NRC | Imp        | Facili | ty Imp |
| 1 | ~      |                  |                                                 |               | CFR | RO  | SRO        | RO     | SRO    |
|   | Al     | Ability to pred  | lict and/or monitor changes in parameters       | (41.5 / 45.5) |     |     |            |        |        |
|   |        | associated with  | h operating the RADIATION                       |               |     |     |            |        |        |
|   |        | MONITORIN        | G SYSTEM controls including:                    |               |     |     |            | • •    |        |
|   | A1.01  | Lights, alarm    | s, and indications associated with normal       |               |     | 3.2 | 3.2        | 3.2    | 3.2    |
|   | 41.00  | operations       |                                                 |               |     | 2.0 | 2.0        | 2.0    | 2.0    |
|   | A1.02  | testing          | s, and indications associated with surveillance |               |     | 2.9 | 2.9        | 2.9    | 2.9    |
|   | A2     | Ability to (d) t | predict the impacts of the following on the     | (41.5 / 45.6) |     |     |            |        |        |
|   |        | RADIATION        | MONITORING SYSTEM; and (b) based                | ,             |     |     |            |        |        |
|   |        | on those predi   | ctions, use procedures to correct, control,     |               |     |     |            |        |        |
|   |        | or mitigate the  | e consequences of those abnormal conditions     | i             |     |     |            |        |        |
|   |        | or operations:   |                                                 |               |     |     |            | ~ -    |        |
|   | A2.01  | Fuel element     | failure                                         |               |     | 3.7 | 4.1        | 3,7    | 4.1    |
|   | A2.02  | Reactor prote    | ection system power failure                     |               |     | 3.3 | 3.6        | 3,3    | 3.0    |
|   | A2.03  | A.C. electrica   | al failure                                      |               |     | 2.9 | 3.1        | 2.9    | 3.1    |
|   | A2.04  | D.C. electrica   | al failure                                      |               |     | 2.7 | 2.8        | 2.1    | 2.8    |
|   | A2.05  | Loss of diluti   | on steam                                        |               |     | 2.5 | 2.0        | 2.5    | 2.0    |
|   | A2.06  | Downscale tr     | ips                                             |               |     | 2.8 | 2.9        | 2.8    | 2.9    |
|   | A2.07  | Hydrogen-inje    | clin operation: Plant-Specific                  |               |     | 2.0 | 2.8        | 2.0    | 2.0    |
|   | A2.08  | Ofigas syster    |                                                 |               |     | 2.9 | 2.1        | 2.9    | 2.1    |
|   | A2.09  | Low rue poo      | n level                                         |               |     | 2.1 | 5.5<br>A 1 | 2.0    | 3.3    |
| - | A2.10  | Loss of coola    | in accident                                     |               |     | 3.9 | 37         | 3.2    | 37     |
|   | AZ, 11 | atmosphere of    | or breaks from containinated systems to         |               |     | 5.4 | 5.7        | 5.4    | 5.1    |
|   | A2 12  | tRefuel floor    | handling accidents/operations                   |               |     | 33  | 4.0        | 3.3    | 4.0    |
|   | A2 13  | Low reactor      | water level during refueling operations         |               |     | 3.3 | 3.8        | 3.3    | 3.8    |
|   | A2 14  | Loss of or in    | adequate shielding                              |               |     | 3.2 | 3.5        | 3.2    | 3.5    |
|   | A2 15  | Maintenance      | operations                                      |               |     | 2.5 | 2.7        | 2.5    | 2.7    |
|   | A2.16  | Instrument m     | alfunctions                                     |               |     | 2.7 | 2.9        | 2.7    | 2.9    |
|   | A3     | Ability to mor   | nitor automatic operations of the               | (41.7 / 45.7) |     |     |            |        |        |
|   | A3 01  | Main steam i     | solation indications                            |               |     | 3.8 | 3.9        | 38     | 3.9    |
|   | A3.02  | Offoas system    | n isolation indications                         |               |     | 3.6 | 3.7        | 3.6    | 3.7    |
|   | A3 03  | Liquid radwa     | is isolation indications                        |               |     | 3.1 | 3.5        | 3.1    | 3.5    |
|   | A3 04  | Radwaste ha      | nding interlocks                                |               |     | 2.3 | 2.8        | 2.3    | 2.8    |
|   | A3.05  | Refuel floor     | overhead crane operation interrupt:             |               |     | 3.0 | 3.1        | 3.0    | 3.1    |
|   | 115105 | Plant-Specifi    | c                                               |               |     |     | -          |        | ~ ^    |
|   | A3.06  | Ventilation s    | ystem isolation indications                     |               |     | 3.4 | 3.4        | 3.4    | 3.4    |
|   | A3.07  | Recorder ind     | ications                                        |               |     | 2.8 | 2.9        | 2.8    | 2.9    |
|   | A3.08  | Meter indicat    | tions                                           |               |     | 2.9 | 2.9        | 2.9    | 2.5    |
|   | A3.09  | Containment      | isolation indications                           |               |     | 3.6 | 3.5        | 3.6    | 3.1    |
|   | A3.10  | Lights and al    | arms                                            |               |     | 3.3 | 3.2        | 3.3    | 3.2    |
|   | A3.11  | Circulating w    | ater system blowdown isolations: Plant-Specif   | Æ             |     | 2.6 | 2.7        | 2.6    | 2.     |
|   |        |                  |                                                 |               |     |     |            |        |        |

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|       | System Number:                  | 272000                                                       |                 |      |      |        |                    |
|-------|---------------------------------|--------------------------------------------------------------|-----------------|------|------|--------|--------------------|
|       | <u>System Name:</u>             | Radiation Monitoring System                                  |                 | NRC  | Imp  | Facili | ty Im <sup>.</sup> |
|       |                                 |                                                              | CFR             | RO   | SRO  | RO     | <b>S</b> .         |
| A4    | Ability to man<br>room:         | ually operate and/or monitor in the control (41.7            | / 45.5 to 45.8) |      |      |        |                    |
| A4.01 | Recorder indi                   | cations                                                      |                 | 2.9  | 2.9  | 2.9    | 2.9                |
| A4.02 | Meter indicati                  | ons                                                          |                 | 3.0  | 3.0  | 3.0    | 3.0                |
| A4.03 | Power supply                    | status indicators                                            |                 | 2.6  | 2.6  | 2.6    | 2.6                |
| A4.04 | SPDS/ERIS/C                     | CRID/GDS                                                     |                 | 2.5* | 2.7* | 2.5    | 2.7                |
| A4.05 | †Convert proc<br>release rates: | cess radiation monitor readings to offsite<br>Plant-Specific |                 | 2.3* | 3.7* | 2.3    | 3.7                |
| A4.06 | †Manually tri                   | p process radiation monitor logic                            |                 | 2.9  | 3.2  | 2.9    | 3.2                |

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| System | Number: | 286000 |
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|   |         | System Name: Fire Protection System                                                                            |                                     | NRC  | Imp  | Facili | ty Imp |
|---|---------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|------|------|--------|--------|
| , |         |                                                                                                                | CFR                                 | RO   | SRO  | RO     | SRO    |
|   | K1      | Knowledge of the physical connections and/or cause-<br>effect relationships between FIRE PROTECTION            | (41.2 to 41.9 / 45.7 to<br>45.8)    |      |      |        |        |
|   | K L Å L | Component cooling water systems                                                                                |                                     | 2.7  | 2.8  | 2.7    | 2.8    |
|   | K1.01   | Isolation condencer: Plant Specific                                                                            |                                     | 3.8  | 3.8  | 3.8    | 3.8    |
|   | K1 03   | Reactor water level: Plant-Specific                                                                            |                                     | 2.9  | 3.0  | 2.9    | 3.0    |
|   | K1.04   | D C. electrical distribution: Plant-Specific                                                                   |                                     | 2.6  | 2.6  | 2.6    | 2.6    |
|   | K1.05   | Main generator hydrogen system: Plant-Specific                                                                 |                                     | 3.1  | 3.1  | 3.1    | 3.1    |
|   | K1.06   | Auxiliary (hoiler) steam system: Plant-Specific                                                                |                                     | 2.2* | 2.3* | 2.2    | 2.3    |
|   | K1.07   | A C. power supplies                                                                                            |                                     | 2.8  | 2.9  | 2.8    | 2.9    |
|   | K1.08   | Intake canals: Plant-Specific                                                                                  |                                     | 3.0  | 3.0  | 3.0    | 3.0    |
|   | K1.09   | Emergency generator rooms: Plant-Specific                                                                      |                                     | 3.2  | 3.3  | 3.2    | 3.3    |
|   | K1.10   | Main generator exciter: Plant-Specific                                                                         |                                     | 2.8  | 2.8  | 2.8    | 2.8    |
|   | K1.11   | Screen wash system: Plant-Specific                                                                             |                                     | 2.5  | 2.5  | 2.5    | 2.5    |
|   | К2      | Knowledge of electrical power supplies to the following:                                                       | (41.7)                              |      |      |        |        |
|   | K2.01   | †Fire protection supervisory circuits: Plant-Specific                                                          |                                     | 2.3* | 2.5* | 2.3    | 2.5    |
|   | K2.02   | Pumps                                                                                                          |                                     | 2.9  | 3.1  | 2.9    | 3.1    |
|   | K2.03   | Fire detection system: Plant-Specific                                                                          |                                     | 2.5* | 2.7* | 2.5    | 2.7    |
|   | КЗ      | Knowledge of the effect that a loss or malfunction of the FIRE PROTECTION SYSTEM will have on following:       | (41.7 / 45.4)                       |      |      |        |        |
| - | K3.01   | The ability to detect fires                                                                                    |                                     | 3.2  | 3.4  | 3.2    | 3.4    |
|   | K3.02   | Personnel protection                                                                                           |                                     | 3.2  | 3.4  | 3.2    | 3.4    |
|   | K3.03   | Plant protection                                                                                               |                                     | 3.6  | 3.8  | 3.6    | 3.8    |
|   | К4      | Knowledge of FIRE PROTECTION SYSTEM design<br>feature(s) and/or interlocks which provide for the<br>following: | (41.7 41.5 / 45.3 41.7<br>/ 45.7 4) |      |      |        |        |
|   | K4.01   | Adequate supply of water for the fire protection system                                                        |                                     | 3.4  | 3.6  | 3.4    | 3.6    |
|   | K4.02   | Automatic system initiation                                                                                    |                                     | 3.3  | 3.5  | 3.3    | 3.5    |
|   | K4.03   | Maintenance of fire header pressure                                                                            |                                     | 3.3  | 3.4  | 3.3    | 3.4    |
|   | K4.04   | Personnel safety during halon and/or carbon dioxide system actuation                                           |                                     | 3.6  | 3.7  | 3.6    | 3.7    |
|   | K4.05   | Fire protection capability during loss of off-site power                                                       |                                     | 3.7  | 3.8  | 3.7    | 3.8    |
|   | K4.06   | Fire suppression capability that does not rely on the displacement of oxygen (Halon): Plant-Specific           |                                     | 3.4  | 3.4  | 3.4    | 3.4    |
|   | K4.07   | Diesel engine protection                                                                                       |                                     | 3.3  | 3.3  | 3.3    | 3.3    |
|   |         |                                                                                                                |                                     |      |      |        |        |

|       | Facility: CPS                                                                                                                          |               |      | Printe | :d: 08/1     | 1/2006 |
|-------|----------------------------------------------------------------------------------------------------------------------------------------|---------------|------|--------|--------------|--------|
|       | System Number: 286000                                                                                                                  |               |      |        |              |        |
|       | System Name: Fire Protection System                                                                                                    |               | NRC  | Imp    | Facility Im- |        |
|       |                                                                                                                                        | CFR           | RO   | SRO    | RO           | S.     |
| K5    | Knowledge of the operational implications of the following concepts as they apply to FIRE PROTECTION SYSTEM:                           | (41.5 / 45.3) |      |        |              |        |
| K5.01 | Effect of carbon dioxide on fires                                                                                                      |               | 2.6  | 2.7    | 2.6          | 2.7    |
| K5.02 | Effect of Halon on fires: Plant-Specific                                                                                               |               | 2.6  | 2.6    | 2.6          | 2.6    |
| K5.03 | Effect of water spray on electrical components                                                                                         |               | 3.3  | 3.4    | 3.3          | 3.4    |
| K5.04 | Valve operation                                                                                                                        |               | 2.9  | 2.9    | 2.9          | 2.9    |
| K5.05 | Diesel operations                                                                                                                      |               | 3.0* | 3.1*   | 3.0          | 3.1    |
| K5.06 | Heat detection                                                                                                                         |               | 2.6  | 2.7    | 2.6          | 2.7    |
| K5.07 | Smoke detection                                                                                                                        |               | 2.6  | 2.7    | 2.6          | 2.7    |
| K5.08 | Gas refrigeration: Plant-Specific                                                                                                      |               | 2.4* | 2.5*   | 2.4          | 2.5    |
| K6    | Knowledge of the effect that a loss or malfunction of the following will have on the FIRE PROTECTION SYSTEM                            | (41.7 / 45.7) |      |        |              |        |
| K6.01 | A.C. electrical distribution: Plant-Specific                                                                                           |               | 3.1  | 3.1    | 3.1          | 3.1    |
| K6.02 | D.C. electrical distribution                                                                                                           |               | 2.8* | 2.9*   | 2.8          | 2.9    |
| K6.03 | Applicable component cooling water system: Plant-Specific                                                                              |               | 2.4* | 2.5*   | 2.4          | 2.5    |
| K6.04 | Diesel fuel transfer system: Plant-Specific                                                                                            |               | 2.8  | 3.0    | 2.8          | 3.0    |
| K6.05 | Screen wash system: Plant-Specific                                                                                                     |               | 2.6  | 2.6    | 2.6          | 2.6    |
| A1    | Ability to predict and/or monitor changes in parameters<br>associated with operating the FIRE PROTECTION<br>SYSTEM controls including: | (41.5 / 45.5) |      |        |              |        |
| A1.01 | System pressure                                                                                                                        |               | 2.9  | 2.9    | 2.9          | 2.9    |
| A1.02 | System flow                                                                                                                            |               | 2.4* | 2.5*   | 2.4          | 2.5    |
| A1.03 | Fire doors                                                                                                                             |               | 2.8  | 3.1    | 2.8          | 3.1    |
| A1.04 | Fire dampers                                                                                                                           |               | 2.8  | 3.1    | 2.8          | 3.1    |
| A1.05 | System lineups                                                                                                                         |               | 3.2  | 3.2    | 3.2          | 3.2    |
| A1.06 | Tank pressure: Plant-Specific                                                                                                          |               | 2.9  | 3.0    | 2.9          | 3.0    |

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2.9 2.7 3.0 2.4

3.3 3.2 2.9 3.3 2.8 2.7 3.2 3.3

3.4

3.2 3.3 3.3 3.1 3.1

3.2 2.5 2.5 2.8 3.3 3.4

|            | KA Catalog                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|            | Facility: CPS                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2         | Ability to (a) predict the impacts of the following on the<br>FIRE PROTECTION SYSTEM; and (b) based on those                                                                                                                           | (41.5 / 45.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|            | predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.01      | System logic failure: Plant-Specific                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.02      | D.C. distribution failure: Plant-Specific                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.03      | A.C. distribution failure: Plant-Specific                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.04      | Applicable component cooling water system failure:<br>Plant-Specific                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.05      | Fire protection diesel trips                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.06      | Low fire main pressure: Plant-Specific                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.07      | Inadvertent system initiation                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.09      | Valve closures: Plant-Specific                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.10      | Valve openings: Plant-Specific                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.11      | Pump trips: Plant-Specific                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A2.12      | Low diesel fuel supply: Plant-Specific                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A3         | Ability to monitor automatic operations of the FIRE<br>PROTECTION SYSTEM including:                                                                                                                                                    | (41.7 / 45.7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| A3.01      | Fire water pump start                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A3.03      | Actuation of fire detectors                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A3.04      | System initiation                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A3.05      | Fire doors                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A3.06      | Fire dampers                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A4         | Ability to manually operate and/or monitor in the control room:                                                                                                                                                                        | (41.7 / 45.5 to 45.8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| A4.01      | System alarms and indicating lights                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A4.02      | Applicable component cooling water system: Plant-Specific                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A4.03      | Applicable component cooling water pressure                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| A4.04      | Fire main pressure: Plant-Specific                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|            | A2<br>A2.01<br>A2.02<br>A2.03<br>A2.04<br>A2.05<br>A2.06<br>A2.07<br>A2.08<br>A2.09<br>A2.10<br>A2.11<br>A2.12<br>A3<br>A3.01<br>A3.02<br>A3.03<br>A3.04<br>A3.05<br>A3.06<br>A4<br>A4.01<br>A4.02<br>A4.03<br>A4.04<br>A4.05<br>A4.06 | Facility:       CPS         System Number:       286000         System Name:       Fire Protection System         A2       Ability to (a) predict the impacts of the following on the<br>FIRE PROTECTION SYSTEM; and (b) based on those<br>predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:         A2.01       System logic failure: Plant-Specific         A2.02       D.C. distribution failure: Plant-Specific         A2.03       A.C. distribution failure: Plant-Specific         A2.04       Applicable component cooling-water system failure:<br>Plant-Specific         A2.05       Fire protection diesel trips         A2.06       Low fire main pressure: Plant-Specific         A2.07       Inadvertent system initiation         A2.08       Failure to actuate when required         A2.09       Valve closures: Plant-Specific         A2.10       Valve openings: Plant-Specific         A2.11       Pump trips: Plant-Specific         A2.12       Low diesel fuel supply: Plant-Specific         A3.01       Fire water pump start         A3.02       Fire main pressure         A3.03       Actuation of fire detectors         A3.04       System nititation         A3.05       Fire dampers         A4       Ability to manual | All       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A3       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         A4       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         Fire main pressure:       Plant-Specific         A3.0       Actuation of fire detectors         A3.0       Actuation of fire detectors         A3.0       Fire manually operate and/or monitor in the control (41.7/45.5 to 45.8)         Fire main pressure:       Plant-Specific         A3.0       Fire dampers:         A4       Ability to manually operate and/or monitor in the control (41.7/45.5 to 45.8)         Fire dampers:       Advication of fire detectors         A4.04       Fire main pressure:         A4.04       Fire main pressure:         A4.04       Fire main pressure:         A | RACE Catalog         Facility:       CPS         System Name:       Fire Protection System       NRC         A2       Ability to (a) predict the impacts of the following on the fIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       2.7         A2.01       System logic failure: Plant-Specific       2.7         A2.02       D.C. distribution failure: Plant-Specific       2.9         A2.03       A.C. distribution failure: Plant-Specific       2.9         A2.04       Applicable component cooling water system failure:       2.3*         Plant-Specific       3.1         A2.05       Fire protection diesel trips       3.1         A2.06       Low fire main pressure: Plant-Specific       2.7         A2.09       Valve closures: Plant-Specific       3.1         A2.09       Valve closures: Plant-Specific       3.1         A2.11       Pump trips: Plant-Specific       3.1         A2.12       Low direst fuel supply: Plant-Specific       3.1         A2.11       Pump trips: Plant-Specific       3.1         A3.11       Fire water pump start       3.4         A3.20       Fire water pump start       3.3         A3.30 <td< td=""><td>A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       NRC Imp<br/>RO       SRC         A2.1       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       (41.5/45.6)       FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       2.7       2.9         A2.01       System logic failure: Plant-Specific       2.6       2.7       2.9         A2.02       D.C, distribution failure: Plant-Specific       2.9       3.0         A2.03       A.C. distribution failure: Plant-Specific       2.1*       2.4*         Plant-Specific       3.1       3.3         A2.05       Fire protection dised trips       3.1       3.2         A2.07       Indvertent system initiation       2.9       2.9         A2.08       Failure to actuate when required       3.2       3.3         A2.04       Valve closures: Plant-Specific       2.7       2.8         A2.10       Valve openings: Plant-Specific       2.6*       2.7         A3.11       Pump trips: Plant-Specific       3.1       3.3         A3.02<!--</td--><td>A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       NRC Imp       Rec Imp       Rec Imp         A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       CFR       RC Imp       RC Imp       Facility         A2.01       System logic failure: Plant-Specific       2.7       2.9       2.7       2.6         A2.02       D.C. distribution failure: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A2.03       A.C. distribution failure: Plant-Specific       2.1       2.4       2.3       3.1       3.2       3.1         A2.05       Fire protection diesel trips       3.1       3.3       3.2       3.1       3.2       3.1         A2.06       Low fire main pressure: Plant-Specific       3.1       3.2       3.1       3.2       3.1         A2.09       Valve coloning: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A3.01       Haute to active twole required       3.2       3.1       3.2       3.1       3.2       3.1         A3.03       Fire water pump start</td></td></td<> | A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       NRC Imp<br>RO       SRC         A2.1       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       (41.5/45.6)       FIRE PROTECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       2.7       2.9         A2.01       System logic failure: Plant-Specific       2.6       2.7       2.9         A2.02       D.C, distribution failure: Plant-Specific       2.9       3.0         A2.03       A.C. distribution failure: Plant-Specific       2.1*       2.4*         Plant-Specific       3.1       3.3         A2.05       Fire protection dised trips       3.1       3.2         A2.07       Indvertent system initiation       2.9       2.9         A2.08       Failure to actuate when required       3.2       3.3         A2.04       Valve closures: Plant-Specific       2.7       2.8         A2.10       Valve openings: Plant-Specific       2.6*       2.7         A3.11       Pump trips: Plant-Specific       3.1       3.3         A3.02 </td <td>A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       NRC Imp       Rec Imp       Rec Imp         A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       CFR       RC Imp       RC Imp       Facility         A2.01       System logic failure: Plant-Specific       2.7       2.9       2.7       2.6         A2.02       D.C. distribution failure: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A2.03       A.C. distribution failure: Plant-Specific       2.1       2.4       2.3       3.1       3.2       3.1         A2.05       Fire protection diesel trips       3.1       3.3       3.2       3.1       3.2       3.1         A2.06       Low fire main pressure: Plant-Specific       3.1       3.2       3.1       3.2       3.1         A2.09       Valve coloning: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A3.01       Haute to active twole required       3.2       3.1       3.2       3.1       3.2       3.1         A3.03       Fire water pump start</td> | A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       NRC Imp       Rec Imp       Rec Imp         A2       Ability to (a) predict the impacts of the following on the predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:       CFR       RC Imp       RC Imp       Facility         A2.01       System logic failure: Plant-Specific       2.7       2.9       2.7       2.6         A2.02       D.C. distribution failure: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A2.03       A.C. distribution failure: Plant-Specific       2.1       2.4       2.3       3.1       3.2       3.1         A2.05       Fire protection diesel trips       3.1       3.3       3.2       3.1       3.2       3.1         A2.06       Low fire main pressure: Plant-Specific       3.1       3.2       3.1       3.2       3.1         A2.09       Valve coloning: Plant-Specific       2.6       2.7       2.6       2.7       2.6         A3.01       Haute to active twole required       3.2       3.1       3.2       3.1       3.2       3.1         A3.03       Fire water pump start |

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Facility: CPS

|   |                | System Name: Plant Ventilation Systems                                                                          |                         | NRC  | Imp  | Facili | ty Imp |
|---|----------------|-----------------------------------------------------------------------------------------------------------------|-------------------------|------|------|--------|--------|
| ~ |                | System Tyme: France venination Systems                                                                          | CFR                     | RO   | SRO  | RO     | SRO    |
|   | KI             | Knowledge of the physical connections and/or cause-                                                             | (41.2 to 41.9 / 45.7 to |      |      |        |        |
|   |                | effect relationships between PLANT VENTILATION                                                                  | 45.8)                   |      |      |        |        |
|   |                | SYSTEMS and the following:                                                                                      |                         |      |      |        |        |
|   | K1.01          | A.C. electrical                                                                                                 |                         | 2.6  | 2.6  | 2.6    | 2.6    |
|   | K1.02          | Secondary containment                                                                                           |                         | 3.4  | 3.4  | 3.4    | 3.4    |
|   | K1.03          | Standby gas treatment                                                                                           |                         | 3.7  | 3.7  | 3.7    | 3.7    |
|   | K1.04          | Applicable component cooling water system: Plant-Specific                                                       |                         | 2.6  | 2.6  | 2.6    | 2.6    |
|   | K1.05          | Process radiation monitoring system                                                                             |                         | 3.3  | 3.6  | 3.3    | 3.6    |
|   | K1.06          | Plant air systems                                                                                               |                         | 2.7  | 2.7  | 2.7    | 2.7    |
|   | К2             | Knowledge of electrical power supplies to the following:                                                        | (41.7)                  |      |      |        |        |
|   | K2.01          | Reactor building supply and exhaust fans: Plant-Specific                                                        |                         | 2.4  | 2.4  | 2.4    | 2.4    |
|   | K2.02          | Auxiliary building supply and exhaust fans (turbine building/ radwaste building): Plant-Specific                |                         | 1.8* | 1.9* | 1.8    | 1.9    |
|   | К3             | Knowledge of the effect that a loss or malfunction of the<br>PLANT VENTILATION SYSTEMS will have on             | (41.5 / 45.3)           |      |      |        |        |
|   | V2 01          | Tollowing:<br>Seconders containment temperature: Plant-Specific                                                 |                         | 2.8  | 3.0  | 2.8    | 3.0    |
|   | K3.01<br>K3.02 | Reactor building temperature: Plant Specific                                                                    |                         | 2.9  | 3.1  | 2.9    | 3.1    |
|   | K3.02<br>K3.02 | Auxilian building temperature: Plant-Specific                                                                   |                         | 2.5  | 2.5  | 2.5    | 2.5    |
|   | K3.05          | Secondary containment pressure: Plant-Specific                                                                  |                         | 3.2  | 3.3  | 3.2    | 3.3    |
|   | K3.04          | Reactor building pressure: Plant Specific                                                                       |                         | 3.1  | 3.3  | 3.1    | 3.3    |
|   | K3.06          | Auxiliary building pressure: Plant-Specific                                                                     |                         | 2.4* | 2.4  | 2.4    | 2.4    |
|   | K4             | Knowledge of PLANT VENTILATION SYSTEMS design                                                                   | (41.7)                  |      |      |        |        |
|   |                | feature(s) and/or interlocks which provide for the                                                              |                         |      |      |        |        |
|   | K4 01          | Automatic initiation of standby gas treatment system                                                            |                         | 3.7  | 3.9  | 3.7    | 3.9    |
|   | K4.01          | Secondary containment isolation                                                                                 |                         | 3.7  | 3.8  | 3.7    | 3,8    |
|   | K4.03          | Automatic starting and stopping of fans                                                                         |                         | 2.8  | 2.9  | 2.8    | 2.9    |
|   | K5             | Knowledge of the operational implications of the following concepts as they apply to PLANT VENTILATION SYSTEMS: | (41.7 / 45.4)           |      |      |        |        |
|   | K5.01          | Airborne contamination control                                                                                  |                         | 3.1  | 3.2  | 3.1    | 3.2    |
|   |                |                                                                                                                 |                         |      |      |        |        |
|   | K5.02          | Differential pressure control                                                                                   |                         | 3.2  | 3.4  | 3.2    | 3.4    |

| System Number:28800System Name:Plant Ventilation Systems $CFR$ $RC$ $Important PROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROSROS$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | Facility: CPS                                     | 3                                                                                               |                       |      | Printo | ed: 08/1 | 1/2006         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|------|--------|----------|----------------|
| System Name:Plant Ventilation SystemsCFR $RO$ <th< th=""><th></th><th>System Number:</th><th>288000</th><th></th><th></th><th></th><th></th><th></th></th<>                                                                                                                                                                                                                                                                                                                                                                                            |       | System Number:                                    | 288000                                                                                          |                       |      |        |          |                |
| CFR         RO         SRO         RO         SNO                                                                                                                                    |       | System Name:                                      | Plant Ventilation Systems                                                                       |                       | NRC  | lmp    | Facili   | <u>ty Im</u> . |
| K6       Knowledge of the effect that a loss or malfunction of the<br>following will have on the PLANT VENTILATION<br>SYSTEMS:       (41.7/45.7)         K6.01       A.C. electrical       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.4       2.4       2.4 </th <th></th> <th></th> <th></th> <th>CFR</th> <th>RO</th> <th>SRO</th> <th>RO</th> <th>Sì</th>                                                                    |       |                                                   |                                                                                                 | CFR                   | RO   | SRO    | RO       | Sì             |
| K6.01       A.C. electrical       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.7       2.2 <td>K6</td> <td>Knowledge of 1<br/>following will ł<br/>SYSTEMS:</td> <td>the effect that a loss or malfunction of the nave on the PLANT VENTILATION</td> <td>(41.7 / 45.7)</td> <td></td> <td></td> <td></td> <td></td> | K6    | Knowledge of 1<br>following will ł<br>SYSTEMS:    | the effect that a loss or malfunction of the nave on the PLANT VENTILATION                      | (41.7 / 45.7)         |      |        |          |                |
| K6.02       Applicable component cooling water system: Plant-Specific       2.5       2.5       2.5       2.5         K6.03       Plant air systems       2.7       2.7       2.7       2.7       2.7         A1       Ability to predict and/or monitor changes in parameters associated with operating the PLANT VENTILATION SYSTEMS controls including:       (41.5 / 45.5)       2.2*       2.2*       2.2       2.2         A1.01       Filter differential pressure       2.2*       2.2*       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2                                                                                                                                        | K6.01 | A.C. electrica                                    | 1                                                                                               |                       | 2.7  | 2.7    | 2.7      | 2.7            |
| K6.03Plant air systems2.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.72.7 <t< td=""><td>K6.02</td><td>Annlicable co</td><td>mponent cooling water system: Plant-Specific</td><td></td><td>2.5</td><td>25</td><td>25</td><td>2.5</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K6.02 | Annlicable co                                     | mponent cooling water system: Plant-Specific                                                    |                       | 2.5  | 25     | 25       | 2.5            |
| AIAbility to predict and/or monitor changes in parameters<br>associated with operating the PLANT VENTILATION<br>SYSTEMS controls including:(41.5 / 45.5)A1.01Filter differential pressure2.2*2.2*2.22.2A1.02Fan differential pressure2.2*2.2*2.22.2A1.03Area temperatures2.42.42.42.4A2Ability to (a) predict the impacts of the following on the<br>PLANT VENTILATION SYSTEMS; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the coasequences of those abnormal conditions or<br>operations:3.33.43.33.4A2.01High drywell pressure: Plant-Specific3.43.63.43.6A2.02Low reactor water level: Plant-Specific3.73.83.73.8A2.03Loss of coolant accident: Plant-Specific3.73.83.73.8A2.04High radiation: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>room:(41.7 / 45.7)4.07A4.01Start and stop fans3.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                  | K6.03 | Plant air syste                                   | ms                                                                                              |                       | 2.7  | 2.7    | 2.7      | 2.7            |
| A1.01Filter differential pressure2.2*2.2*2.22.22.2A1.02Fan differential pressure2.2*2.2*2.2*2.22.22.2A1.03Area temperatures2.42.42.42.42.4A2Ability to (a) predict the impacts of the following on the<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.43.33.4A2.01High drywell pressure: Plant-Specific3.43.63.43.63.43.6A2.02Low reactor water level: Plant-Specific3.53.73.53.73.53.7A2.04High radiation: Plant-Specific3.73.83.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:3.83.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1    | Ability to pred<br>associated with<br>SYSTEMS con | ict and/or monitor changes in parameters<br>operating the PLANT VENTILATION<br>trols including: | (41.5 / 45.5)         |      |        |          |                |
| A1.02Fan differential pressure2.2*2.2*2.22.22.2A1.03Area temperatures2.42.42.42.42.42.4A2Ability to (a) predict the impacts of the following on the<br>pLANT VENTILATION SYSTEMS; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.43.33.4A2.01High drywell pressure: Plant-Specific3.33.43.33.43.43.6A2.02Low reactor water level: Plant-Specific3.53.73.53.7A2.03Loss of coolant accident: Plant-Specific3.53.73.83.73.8A2.04High radiation: Plant-Specific3.73.83.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific3.73.83.73.83.83.8A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:4.01Isolation/initiation signals3.83.83.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)<br>room:3.12.93.12.9A4.02Area temperature2.82.82.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                              | A1.01 | Filter differen                                   | tial pressure                                                                                   |                       | 2.2* | 2.2*   | 2.2      | 2.2            |
| A1.03Area temperatures2.42.42.42.42.42.4A2Ability to (a) predict the impacts of the following on the<br>PLANT VENTILATION SYSTEMS; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:3.33.43.33.4A2.01High drywell pressure: Plant-Specific3.33.43.63.43.6A2.02Low reactor water level: Plant-Specific3.53.73.53.7A2.03Loss of coolant accident: Plant-Specific3.53.73.83.73.8A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>A3.013.83.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.02Area temperature3.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1.02 | Fan differentia                                   | al pressure                                                                                     |                       | 2.2* | 2.2*   | 2.2      | 2.2            |
| A2Ability to (a) predict the impacts of the following on the<br>PLANT VENTILATION SYSTEMS; and (b) based on<br>those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:(41.5 / 45.6)A2.01High drywell pressure: Plant-Specific3.33.43.33.4A2.02Low reactor water level: Plant-Specific3.43.63.43.6A2.03Loss of coolant accident: Plant-Specific3.53.73.53.7A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>Isolation/initiation signals3.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.024.17 / 45.5 to 45.8)<br>2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1.03 | Area temperat                                     | ures                                                                                            |                       | 2.4  | 2.4    | 2.4      | 2.4            |
| those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions or<br>operations:A2.01High drywell pressure: Plant-Specific3.33.43.33.4A2.02Low reactor water level: Plant-Specific3.43.63.43.6A2.03Loss of coolant accident: Plant-Specific3.53.73.53.7A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>A3.011solation/initiation signals3.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.013.12.93.12.93.12.9A4.02Area temperature2.82.82.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A2    | Ability to (a) p<br>PLANT VENT                    | redict the impacts of the following on the<br>ILATION SYSTEMS; and (b) based on                 | (41.5 / 45.6)         |      |        |          |                |
| A2.01       High drywell pressure: Plant-Specific       3.3       3.4       3.3       3.4         A2.02       Low reactor water level: Plant-Specific       3.4       3.6       3.4       3.6         A2.03       Loss of coolant accident: Plant-Specific       3.5       3.7       3.5       3.7         A2.04       High radiation: Plant-Specific       3.7       3.8       3.7       3.8         A2.05       Extreme outside weather conditions: Plant-Specific       2.6       2.7       2.6       2.7         A3       Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:       (41.7 / 45.7)       7       7         A3.01       Isolation/initiation signals       3.8       3.8       3.8       3.8         A4       Ability to manually operate and/or monitor in the control<br>room:       (41.7 / 45.5 to 45.8)       7         A4.01       Start and stop fans       3.1       2.9       3.1       2.9         A4.02       Area temperature       2.8       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                     |       | those predictio<br>mitigate the co<br>operations: | ns, use procedures to correct, control, or<br>nsequences of those abnormal conditions or        |                       |      |        |          |                |
| A2.02Low reactor water level: Plant-Specific3.43.63.43.6A2.03Loss of coolant accident: Plant-Specific3.53.73.53.7A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:(41.7 / 45.7)41.7 / 45.7)A3Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)3.83.8A4Ability to manually operate and/or monitor in the control<br>venture(41.7 / 45.5 to 45.8)3.12.93.12.9A4.01Start and stop fans3.12.93.12.93.12.93.12.9A4.02Area temperature2.82.82.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A2.01 | High drywell                                      | pressure: Plant-Specific                                                                        |                       | 3.3  | 3.4    | 3.3      | 3.4            |
| A2.03Loss of coolant accident: Plant-Specific3.53.73.53.7A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>A3.01(41.7 / 45.7)41.7 / 45.7)A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.01(41.7 / 45.5 to 45.8)3.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.023.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A2.02 | Low reactor w                                     | vater level: Plant-Specific                                                                     |                       | 3.4  | 3.6    | 3.4      | 3.6            |
| A2.04High radiation: Plant-Specific3.73.83.73.8A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>A3.01(41.7 / 45.7)3.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.01(41.7 / 45.5 to 45.8)3.12.93.12.9A4.01Start and stop fans3.12.93.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A2.03 | Loss of coolar                                    | nt accident: Plant-Specific                                                                     |                       | 3.5  | 3.7    | 3.5      | 3.7            |
| A2.05Extreme outside weather conditions: Plant-Specific2.62.72.62.7A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:<br>A3.01(41.7 / 45.7)3.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:<br>A4.01(41.7 / 45.5 to 45.8)3.12.93.12.9A4.01Start and stop fans3.12.93.12.93.12.9A4.02Area temperature2.82.82.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A2.04 | High radiation                                    | : Plant-Specific                                                                                |                       | 3.7  | 3.8    | 3.7      | 3.8            |
| A3Ability to monitor automatic operations of the PLANT<br>VENTILATION SYSTEMS including:(41.7 / 45.7)A3.01Isolation/initiation signals3.83.83.83.8A4Ability to manually operate and/or monitor in the control<br>room:(41.7 / 45.5 to 45.8)5A4.01Start and stop fans3.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A2.05 | Extreme outsi                                     | de weather conditions: Plant-Specific                                                           |                       | 2.6  | 2.7    | 2.6      | 2.7            |
| A3.01Isolation/initiation signals3.83.83.83.8A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room:3.12.93.12.9A4.01Start and stop fans3.12.93.12.9A4.02Area temperature2.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A3    | Ability to moni<br>VENTILATIO                     | itor automatic operations of the PLANT<br>N SYSTEMS including:                                  | (41.7 / 45.7)         |      |        |          |                |
| A4Ability to manually operate and/or monitor in the control (41.7 / 45.5 to 45.8)<br>room:A4.01Start and stop fans3.12.93.12.9A4.02Area temperature2.82.82.82.82.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A3.01 | Isolation/initia                                  | ation signals                                                                                   |                       | 3.8  | 3.8    | 3.8      | 3.8            |
| A4.01       Start and stop fans       3.1       2.9       3.1       2.9         A4.02       Area temperature       2.8       2.8       2.8       2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A4    | Ability to man<br>room:                           | ually operate and/or monitor in the control                                                     | (41.7 / 45.5 to 45.8) |      |        |          |                |
| A4.02         Area temperature         2.8         2.8         2.8         2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A4.01 | Start and stop                                    | fans                                                                                            |                       | 3.1  | 2.9    | 3.1      | 2.9            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 44.02 | Area temperat                                     | ure                                                                                             |                       | 2.8  | 2.8    | 2.8      | 2.8            |

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|                | Facility: CPS                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                  | Printe | ed: 08/1            | 1/2006               |
|----------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|--------|---------------------|----------------------|
|                | System Number:                                  | 290001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                  |        |                     |                      |
|                | System Name:                                    | Secondary Containment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CFR                              | <u>NRC</u><br>RO |        | <u>Facili</u><br>RO | <u>ty Imp</u><br>SRO |
| )              |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UN                               | NO.              | BRO    | NO                  | 5105                 |
| K1             | Knowledge of t<br>effect relations              | he physical connections and/or cause-<br>hips between SECONDARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (41.2 to 41.9 / 45.7 to<br>45.8) |                  |        |                     |                      |
| <b>V1 01</b>   | CONTAINME<br>Reseter huildin                    | N I and the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  | 2 2              | 25     | 2 2                 | 25                   |
| K1.01<br>K1.02 | Drimon contain                                  | in weight and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  | 3.5              | 3.5    | 3.5                 | 3.5                  |
| K1.02          | Padwasta buil                                   | ding vontilation: Plant Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | 2.4              | 3.0    | 5.4<br>2.4          | 2.0                  |
| K1.03          | SRGT                                            | ung ventilation. Frant-speeme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | 2.7              | 3.0    | 2.4                 | 3.0                  |
| K1.04<br>K1.05 | Auviliary buil                                  | ding ventilation: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | 3.7              | 3.7    | 3.7                 | 3.3                  |
| N1.05          | Auviliary built                                 | ding isolation: RWP 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | 3.1              | 3.6    | 3.4                 | 3.5                  |
| K1.00<br>K1.07 | Turbine buildi                                  | ng ventilation (steam tunnel): Blant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | 3.0              | 3.0    | 3.4                 | 3.0                  |
| K1.07          | Exhaust stack                                   | $\mathbf{R}\mathbf{U}\mathbf{D}_{-1}^{-2}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  | 3.0              | 33     | 3.0                 | 3.1                  |
| K1.00          | Plant air system                                | DWRZ; 5, T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  | 2.2              | 2.9    | 2.0                 | 2.9                  |
| K1.09          | Auxiliant boile                                 | r evetom : DWD - 2 = 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  | 1.6*             | 1.6*   | 1.6                 | 1.6                  |
| <b>K</b> 1.10  | Auxinary bone                                   | i system. D WK-2, 5,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | 1.0              | 1.0    | 1.0                 | 1.0                  |
| K3             | Knowledge of t<br>SECONDARY                     | he effect that a loss or malfunction of the<br>CONTAINMENT will have on following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (41.7 / 45.4)                    |                  |        |                     |                      |
| K3.01          | †Off-site radio                                 | pactive release rates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | 4.0              | 4.4*   | 4.0                 | 4.4                  |
| K4             | Knowledge of S                                  | SECONDARY CONTAINMENT design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (41.7)                           |                  |        |                     |                      |
|                | feature(s) and/o<br>following:                  | or interlocks which provide for the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                  |        |                     |                      |
| <u>+.01</u>    | Personnel acce<br>containment: I                | ess without breaching secondary<br>Plant-System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  | 3.5              | 3.8    | 3.5                 | 3.8                  |
| K4.02          | Protection aga                                  | inst over pressurization: Plant-System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  | 3.4              | 3.5    | 3.4                 | 3.5                  |
| K4.03          | Fluid leakage                                   | collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  | 2.8              | 2.9    | 2.8                 | 2.9                  |
| K4.04          | Auxiliary buil                                  | ding isolation: BWR-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | 3.4              | 3.4    | 3.4                 | 3.4                  |
| К5             | Knowledge of t<br>following conce<br>CONTAINME  | the operational implications of the operational implications of the operation of the operat | (41.5 / 45.3)                    |                  |        |                     |                      |
| K5.01          | Vacuum breake                                   | er operation: BWR-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  | 3.3*             | 3.4*   | 3.3                 | 3.4                  |
| K5.02          | Flow measuren                                   | nent: BWR-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  | 2.2              | 2.2    | 2.2                 | 2.2                  |
| K6             | Knowledge of t<br>following will h<br>CONTAINME | he effect that a loss or malfunction of the<br>nave on the SECONDARY<br>NT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (41.7 / 45.7)                    |                  |        |                     |                      |
| K6.01          | Reactor buildin                                 | equal to the second sec |                                  | 3.5              | 3.6    | 3.5                 | 3.6                  |
| K6.02          | Radwaste buil                                   | ding ventilation: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | 2.4              | 2.6    | 2.4                 | 2.6                  |
| K6.03          | SBGT                                            | _ 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  | 3.8              | 4.0    | 3.8                 | 4.0                  |
| K6.04          | Primary conta                                   | inment system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | 3.9              | 4.1    | 3.9                 | 4.1                  |
| K6.05          | Auxiliary buil                                  | ding ventilation: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | 2.9              | 3.0    | 2.9                 | 3.0                  |
| K6.06          | Turbine buildi                                  | ng ventilation: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  | 2.2*             | 2.3    | 2.2                 | 2.3                  |
| K6.07          | Auxiliary boile                                 | <del>r system: BWR-3,</del> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | 1.9*             | 2.0*   | 1.9                 | 2.0                  |
| (6.08          | Plant air system                                | ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 2.7              | 2.8    | 2.7                 | 2.8                  |
|                | A.C. power: B                                   | SWR-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | 3.4              | 3.6    | 3,4                 | 3.6                  |

|       | Facility: CPS                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |            |            |            |          |
|-------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|------------|------------|----------|
|       | System Number:                                                       | 290001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |            |            |            |          |
|       | System Name:                                                         | Secondary Containment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | NRC        | Imp        | Facili     | ty hy    |
|       |                                                                      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFR                   | RO         | SRO        | RO         | <u>s</u> |
| A1    | Ability to predi<br>associated with<br>CONTAINME                     | ict and/or monitor changes in parameters<br>operating the SECONDARY<br>NT controls including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (41.5 / 45.5)         |            |            |            |          |
| A1.01 | System lineup                                                        | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | 3.1        | 3.1        | 3.1        | 3.1      |
| A1.02 | High area tem                                                        | perature: BWR-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 3.6        | 3.6        | 3.6        | 3.6      |
| 42    | Ability to (a) p<br>SECONDARY<br>predictions, use<br>mitigate the co | redict the impacts of the following on the<br>CONTAINMENT; and (b) based on those<br>e procedures to correct, control, or<br>nsequences of those abnormal conditions or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (41.5 / 45.6)         |            |            |            |          |
| 1201  | operations:                                                          | de de failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 2 2        | 77         | 2.2        | 27       |
| 42.01 | Tersonnel air                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 3.5        | 3.7<br>3.7 | 3.3        | 2.7      |
| 42.02 | TExcessive ou                                                        | Interkage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | 3.3        | 3.1        | 3.5        | 3.1      |
| 42.03 | High area radi                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 5.4<br>2.4 | 3.0<br>2.7 | 5.4<br>2.4 | 2.0      |
| 42.04 | High airdorne                                                        | radiation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | 3.4<br>2.1 | 3.7        | 3.4        | 3.7      |
| A2.05 | High area tem                                                        | perature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 3.1        | 3.3        | 3.1        | 3.3      |
| A2.06 | Auxiliary buil                                                       | ding isolation: BWK-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | 3.7        | 4.0        | 3.7        | 4.0      |
| A3    | Ability to moni<br>SECONDARY                                         | tor automatic operations of the CONTAINMENT including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (41.7 / 45.7)         |            |            |            |          |
| A3.01 | Secondary cor                                                        | stainment isolation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | 3.9        | 4.0        | 3.9        | 4.0      |
| A3.02 | Normal buildi                                                        | ng differential pressure: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 3.5        | 3.5        | 3.5        | 3        |
| A4    | Ability to man<br>room:                                              | ually operate and/or monitor in the control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (41.7 / 45.5 to 45.8) |            |            |            |          |
| A4.01 | Reactor buildi                                                       | ng differential pressure: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 3.3        | 3.4        | 3.3        | 3.4      |
| A4.02 | Reactor buildi                                                       | ng area temperatures: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | 3.3        | 3.4        | 3.3        | 3.4      |
| A4.03 | Auxiliary buil                                                       | ding differential pressure: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | 2.6*       | 2.7        | 2.6        | 2.7      |
| A4.04 | Auxiliary buil                                                       | ding area temperature: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | 2.6*       | 2,7        | 2.6        | 2.7      |
| 44.05 | Fuel building                                                        | differential pressure: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | 3.3        | 3.5        | 3.3        | 3.5      |
| 44.06 | Fuel building                                                        | area temperature: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | 3.3        | 3.5        | 3.3        | 3.5      |
| A4.07 | Radwaste buil                                                        | ding differential pressure: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | 2.3        | 2.5        | 2.3        | 2.5      |
| A4.08 | Radwaste buil                                                        | ding area temperature: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | 2.2        | 2.4        | 2.2        | 2.4      |
| A4.09 | System status                                                        | lights and alarms: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | 3.2        | 3.2        | 3.2        | 3.2      |
| A4.10 | System lineun                                                        | s: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | 3.4        | 3.3        | 3.4        | 3.3      |
| A4.11 | System reset:                                                        | Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | 3.4        | 3.4        | 3.4        | 3.4      |
| A4.12 | Surveillance to                                                      | esting: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | 2.8        | 3.2        | 2.8        | 3.2      |
|       | · •••••••••                                                          | C The second sec |                       |            |            | -          |          |

System Number: 290002

Facility: CPS

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|                           | System Name: Reactor Vessel Internals                                                                                                           |              |      | NRC Imp |     | <u>Facility Imp</u> |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|---------|-----|---------------------|--|
| $\smile$                  |                                                                                                                                                 | CFR          | RO   | SRO     | RO  | SRO                 |  |
| K1                        | Knowledge of the physical connections and/or cause-<br>effect relationships between REACTOR VESSEL(41.2 to 41.INTERNALS and the following:45.8) | .9 / 45.7 to |      |         |     |                     |  |
| K1.01                     | Main steam system                                                                                                                               |              | 3.2  | 3.2     | 3.2 | 3.2                 |  |
| K1.02                     | Recirculation system                                                                                                                            |              | 3.2  | 3.2     | 3.2 | 3.2                 |  |
| K1.03                     | Reactor feedwater system                                                                                                                        |              | 3.2  | 3.2     | 3.2 | 3.2                 |  |
| K1.04                     | HPCI: Plant-Specific                                                                                                                            |              | 3.4  | 3.5     | 3.4 | 3.5                 |  |
| K1.05                     | RHR: Plant-Specific                                                                                                                             |              | 3.1  | 3.2     | 3.1 | 3.2                 |  |
| K1.06                     | HPCS: Plant-Specific                                                                                                                            |              | 3.1  | 3.1     | 3.1 | 3.1                 |  |
| K1.07                     | Isolation condenser: Plant-Specific                                                                                                             |              | 3.4  | 3.4     | 3.4 | 3.4                 |  |
| K1.08                     | RCIC: Plant-Specific                                                                                                                            |              | 3.1  | 3.1     | 3.1 | 3.1                 |  |
| K1.09                     | LPCI: Plant-Specific                                                                                                                            |              | 3.2  | 3.3     | 3.2 | 3.3                 |  |
| K1.10                     | CRD hydraulic system                                                                                                                            |              | 3.1  | 3.1     | 3.1 | 3.1                 |  |
| <b>K1.1</b> 1             | CRD mechanism                                                                                                                                   |              | 2.9  | 2.9     | 2.9 | 2.9                 |  |
| K1.12                     | SBLC                                                                                                                                            |              | 3.4  | 3.5     | 3.4 | 3.5                 |  |
| K1.13                     | Relief/safety valves                                                                                                                            |              | 3.4  | 3.5     | 3.4 | 3.5                 |  |
| K1.14                     | RWCU                                                                                                                                            |              | 2.9  | 3.1     | 2.9 | 3.1                 |  |
| K1.15                     | Nuclear boiler instrumentation                                                                                                                  |              | 3.4  | 3.5     | 3.4 | 3.5                 |  |
| K1.16                     | LPCS                                                                                                                                            |              | 3.2  | 3.4     | 3.2 | 3.4                 |  |
| K1.17                     | ADS                                                                                                                                             |              | 3.3  | 3.4     | 3.3 | 3.4                 |  |
| K1.18                     | Lost parts monitoring: Plant-Specific                                                                                                           |              | 2.1* | 2.2*    | 2.1 | 2.2                 |  |
| K1.19                     | TIP                                                                                                                                             |              | 2.5  | 2.6     | 2.5 | 2.6                 |  |
| $\smile$ <sup>(1.20</sup> | Nuclear instrumentation                                                                                                                         |              | 3.2  | 3.3     | 3.2 | 3.3                 |  |
| К3                        | Knowledge of the effect that a loss or malfunction of the (41.7 / 45.4<br>REACTOR VESSEL INTERNALS will have on<br>following:                   | 4)           |      |         |     |                     |  |
| K3.01                     | Reactor water level                                                                                                                             |              | 3.2  | 3.3     | 3.2 | 3.3                 |  |
| K3.02                     | Reactor pressure                                                                                                                                |              | 2.9  | 3.0     | 2.9 | 3.0                 |  |
| K3.03                     | Reactor power                                                                                                                                   |              | 3.3  | 3.4     | 3.3 | 3.4                 |  |
| K3.04                     | Plant radiation levels                                                                                                                          |              | 2.9  | 3.2     | 2.9 | 3.2                 |  |
| K3.05                     | Off-site radiation levels                                                                                                                       |              | 2.9  | 3.2     | 2.9 | 3.2                 |  |
| K3.06                     | PCIS/NSSSS                                                                                                                                      |              | 3.1  | 3.1     | 3.1 | 3.1                 |  |
| K3.07                     | Nuclear boiler instrumentation                                                                                                                  |              | 3.1  | 3.1     | 3.1 | 3.1                 |  |
| К4                        | Knowledge of REACTOR VESSEL INTERNALS design (41.7)<br>feature(s) and/or interlocks which provide for the<br>following:                         |              |      |         |     |                     |  |
| K4 01                     | 2/3 core coverage following a DBA LOCA                                                                                                          |              | 3.7  | 3.9     | 3.7 | 3.9                 |  |
| K4.02                     | Separation of fluid flow paths within the vessel                                                                                                |              | 3.1  | 3.2     | 3.1 | 3.2                 |  |
| K4.03                     | Core orificing                                                                                                                                  |              | 3.2  | 3.3     | 3.2 | 3.3                 |  |
| K4.04                     | Moisture removal from generated steam                                                                                                           |              | 2.8  | 2.8     | 2.8 | 2.8                 |  |
| K4.05                     | Natural circulation                                                                                                                             |              | 3.3  | 3.5     | 3.3 | 3.5                 |  |

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|-------|------------------|---------|---|---|-----|
|       |                  | - VU/ I |   |   | ~~~ |

|        | Facility: CPS                                                                                                         |               |     |            | Printe      | d: 08/1        | 1/2006            |
|--------|-----------------------------------------------------------------------------------------------------------------------|---------------|-----|------------|-------------|----------------|-------------------|
|        | System Number: 290002                                                                                                 |               |     |            |             |                |                   |
|        | System Name: Reactor Vessel Internals                                                                                 |               |     | <u>NRC</u> | Imp         | <u>Facilit</u> | <u>y 1</u> ,      |
|        |                                                                                                                       |               | CFR | RO         | SRO         | RO             |                   |
| К5     | Knowledge of the operational implications of the following concepts as they apply to REACTOR VESSEL                   | (41.5 / 45.3) |     |            |             |                |                   |
| V 5 01 | Thermal limits                                                                                                        |               |     | 35         | 39          | 35             | 39                |
| NJ.01  | Figure product poisons                                                                                                |               |     | 29         | 31          | 29             | 31                |
| KJ.02  | Pussion product poisons<br>Burnable poisons                                                                           |               |     | 2.9        | 3.0         | 27             | 3.0               |
| K5.03  | *PCIOMR: Plant-Specific                                                                                               |               |     | 31         | 3.7         | 3.1            | 37                |
| K5.04  | Brittle fracture                                                                                                      |               |     | 3.1        | 3.3         | 3.1            | 33                |
| NJ.03  | Heat transfer mechanisms                                                                                              |               |     | 2.8        | 3.2         | 2.8            | 3.2               |
| K5.07  | †Safety limits                                                                                                        |               |     | 3.9        | 4.4*        | 3.9            | 4.4               |
| K6     | Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR VESSEL INTERNALS:        | (41.7 / 45.7) |     |            |             |                |                   |
| K6.01  | CRD hydraulic system                                                                                                  |               |     | 2.8        | 2.9         | 2.8            | 2.9               |
| K6.02  | CRD mechanism                                                                                                         |               |     | 2.9        | 2.9         | 2.9            | 2.9               |
| K6.03  | Recirculation system                                                                                                  |               |     | 3.1        | 3.2         | 3.1            | 3.2               |
| K6.04  | Reactor feedwater system                                                                                              |               |     | 3.0        | 3.1         | 3.0            | 3.1               |
| K6.05  | SBLC                                                                                                                  |               |     | 3.3        | 3.4         | 3.3            | 3.4               |
| K6 06  | Relief/safety valves                                                                                                  |               |     | 3.0        | 3.2         | 3.0            | 3.2               |
| K6.07  | RWCU                                                                                                                  |               |     | 2.6        | 2.7         | 2.6            | 2.7               |
| K6.08  | Nuclear boiler instrumentation                                                                                        |               |     | 2.9        | 3.2         | 2.9            | -                 |
| K6.09  | LPCS                                                                                                                  |               |     | 3.2        | 3.3         | 3.2            | 5                 |
| K6.10  | HPCI: Plant-Specific                                                                                                  |               |     | 3.0        | 3.3         | 3.0            | 3.3               |
| K6.11  | RHR: Plant-Specific                                                                                                   |               |     | 3.1        | 3.2         | 3.1            | 3.2               |
| K6.12  | Isolation condenser: Plant-Specific                                                                                   |               |     | 3.0        | 3.2         | 3.0            | 3.2               |
| K6.13  | RCIC: Plant-Specific                                                                                                  |               |     | 2.7        | 2.8         | 2.7            | 2.8               |
| K6.14  | LPCI: Plant-Specific                                                                                                  |               |     | 3.1        | 3.3         | 3.1            | 3.3               |
| K6.15  | ADS                                                                                                                   |               |     | 3.1        | 3.4         | 3.1            | 3.4               |
| K6.16  | Loss parts monitoring                                                                                                 |               |     | 2.0*       | 2.0*        | 2,0            | 2.0               |
| K6.17  | TIP                                                                                                                   |               |     | 2.5        | 2.5         | 2.5            | 2.5               |
| K6.18  | Nuclear instrumentation                                                                                               |               |     | 3.0        | 3.1         | 3.0            | 3.1               |
| K6.19  | HPCS: Plant-Specific(BWR-5&6)                                                                                         |               |     | 3.0        | 3.1         | 3.0            | 3.1               |
| K6.20  | Main steam system                                                                                                     |               |     | 2.9        | 3.1         | 2.9            | 3.1               |
| A2     | Ability to (a) predict the impacts of the following on the REACTOR VESSEL INTERNALS; and (b) based on                 | (41.5 / 45.6) |     |            |             |                |                   |
|        | those predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal conditions o | r             |     |            |             |                |                   |
| 42.01  | operations;                                                                                                           |               |     | 27         | 40          | 37             | 4 0               |
| A2.01  | LUCA                                                                                                                  |               |     | 3.7        | 3.0         | 3.6            | 20                |
| A2.02  | +Control rod drop aggident                                                                                            |               |     | 3.6        | 30          | 3.6            | 3.0               |
| A2.03  | Teoreta in teoreta ante a secondaria de la contra ante a secondaria de la contra ante a secondaria de la contra       |               |     | 2.0        |             | 37             | <i>J.)</i><br>⊿ 1 |
| A2.04  | Excessive nearup/cooldown rate                                                                                        |               |     | 2.1        | 4.1<br>A 7  | 2.7            | 4.1<br>4.7        |
| A2.05  | Exceeding inernial limits                                                                                             |               |     | J./<br>/ N | ⊐.∠<br>∧ <* | J./<br>4.0     | <b>-</b> , ·      |
| A2.00  | 1Exceeding safety minus                                                                                               |               |     | 7.0        | 7.0         | 7.0            |                   |

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| Facility: CPS       |                          |     |     | Printed: | 08/11/2006   |
|---------------------|--------------------------|-----|-----|----------|--------------|
| System Number:      | 290002                   |     |     |          |              |
| <u>System Name:</u> | Reactor Vessel Internals |     | NRC | Imp      | Facility Imp |
|                     |                          | CFR | RO  | SRO      | RO SRO       |

|         | Facility: CPS                                                                                                               |                                  |      | Printe | d: 08/1       | : 08/11/2006 |  |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|--------|---------------|--------------|--|
|         | System Number: 290003                                                                                                       |                                  |      |        |               |              |  |
|         | System Name: Control Room HVAC                                                                                              |                                  | NRC  | Imp    | <u>Facili</u> | ty Imp       |  |
|         |                                                                                                                             | CFR                              | RO   | SRO    | RO            | SRO          |  |
| K1      | Knowledge of the physical connections and/or cause-<br>effect relationships between CONTROL ROOM HVAC<br>and the following: | (41.2 to 41.9 / 45.7 to<br>45.8) |      |        |               |              |  |
| K1.01   | Radiation monitors                                                                                                          |                                  | 3.4  | 3.5    | 3.4           | 3.5          |  |
| K1.02   | Chlorine amonia detectors: Plant-Specific                                                                                   |                                  | 2.9  | 3.1    | 2.9           | 3.1          |  |
| K1.03   | Remote air intakes: Plant-Specific                                                                                          |                                  | 2.8  | 2.9    | 2.8           | 2.9          |  |
| K1.04   | Nuclear steam supply shut off system (NSSSS/PCIS):<br>Plant-Specific                                                        |                                  | 3.2  | 3.3    | 3.2           | 3.3          |  |
| K1.05   | Component cooling water systems                                                                                             |                                  | 2.8  | 3.0    | 2.8           | 3.0          |  |
| K1.06   | Plant air systems                                                                                                           |                                  | 2.6  | 2.7    | 2.6           | 2.7          |  |
| K1.07   | Fire protection                                                                                                             |                                  | 2.9  | 3.0    | 2.9           | 3.0          |  |
| K2      | Knowledge of electrical power supplies to the following:                                                                    | (41.7)                           |      |        |               | _            |  |
| K2.01   | Fans                                                                                                                        |                                  | 2.2* | 2.4*   | 2.2           | 2.4          |  |
| K2.02   | Chiller units                                                                                                               |                                  | 2.4* | 2.4*   | 2.4           | 2.4          |  |
| K2.03   | Motor operated valves: Plant-Specific                                                                                       |                                  | 1.9* | 2.0*   | 1.9           | 2.0          |  |
| КЗ      | Knowledge of the effect that a loss or malfunction of the CONTROL ROOM HVAC will have on following:                         | (41.7 / 45.4)                    |      |        |               |              |  |
| K3.01   | Control room habitability                                                                                                   |                                  | 3.5  | 3.8    | 3.5           | 3.8          |  |
| K3.02   | Computer/instrumentation: Plant-Specific                                                                                    |                                  | 3.3  | 3.6    | 3.3           | 3.6          |  |
| 3.03 کم | Control room temperature                                                                                                    |                                  | 2.9  | 3.1    | 2.9           | 3.1          |  |
| K3.04   | Control room pressure                                                                                                       |                                  | 2.8* | 2.9    | 2.8           | 2.9          |  |
| K4      | Knowledge of CONTROL ROOM HVAC design feature(s) and/or interlocks which provide for the following:                         | (41.7)                           |      |        |               |              |  |
| K4.01   | System initiations/reconfiguration: Plant-Specific                                                                          |                                  | 3.1  | 3.2    | 3.1           | 3.2          |  |
| K4.02   | Control room temperatures                                                                                                   |                                  | 2.4* | 2.6    | 2.4           | 2.6          |  |
| К5      | Knowledge of the operational implications of the following concepts as they apply to CONTROL ROOM HVAC                      | (41.5 / 45.3)                    |      |        |               |              |  |
| K5.01   | Airborne contamination (e.g., radiological, toxic gas, smoke) control                                                       |                                  | 3.2  | 3.5    | 3.2           | 3.5          |  |
| K5.02   | Differential pressure control                                                                                               |                                  | 2.8  | 2.8    | 2.8           | 2.8          |  |
| K5.03   | Temperature control                                                                                                         |                                  | 2.6  | 2.7    | 2.6           | 2.7          |  |
| K6      | Knowledge of the effect that a loss or malfunction of the following will have on the CONTROL ROOM HVAC:                     | (41.7 / 45.7)                    |      |        |               |              |  |
| K6.01   | Electrical power                                                                                                            |                                  | 2.7  | 2.9    | 2.7           | 2.9          |  |
| K6.02   | Component cooling water systems                                                                                             |                                  | 2.7  | 2.9    | 2.7           | 2.9          |  |
| K6.03   | Plant air systems                                                                                                           |                                  | 2.4  | 2.6    | 2.4           | 2.6          |  |
| к6.04   | Fire protection: Plant-Specific                                                                                             |                                  | 2.6  | 2.8    | 2.6           | 2.8          |  |
| ٩       |                                                                                                                             |                                  |      |        |               |              |  |

|                | Facility: CPS                                                                                                                           |                   |            | Printe     | d: 08/1             | 1/2006       |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|------------|---------------------|--------------|
|                | System Number: 290003                                                                                                                   |                   |            |            |                     |              |
|                | System Name: Control Room HVAC                                                                                                          | CEP               | NRC        | <u>lmp</u> | <u>Facili</u><br>RO | <u>ty Ir</u> |
|                |                                                                                                                                         | UFR               | KU         | SKU        | ĸo                  | i            |
| A1             | Ability to predict and/or monitor changes in parameters (41.5<br>associated with operating the CONTROL ROOM HVAC<br>controls including: | 5 / 45.5)         |            |            |                     |              |
| <b>A</b> 1 01  | Filter differential pressure                                                                                                            |                   | 2.1*       | 2.1*       | 21                  | 2.1          |
| A1 02          | Fan differential pressure                                                                                                               |                   | 2.1*       | 2.1*       | 2.1                 | 2.1          |
| A1.03          | Area temperatures                                                                                                                       |                   | 2.6        | 2.6        | 2.6                 | 2.6          |
| A1 04          | Control room pressure                                                                                                                   |                   | 2.5        | 2.8        | 2.5                 | 2.8          |
| A1.05          | Radiation monitoring (control room)                                                                                                     |                   | 3.2        | 3.3        | 3.2                 | 3.3          |
| A2             | Ability to (a) predict the impacts of the following on the (41.5<br>CONTROL ROOM HVAC; and (b) based on those                           | 5 / 45.6)         |            |            |                     |              |
|                | predictions, use procedures to correct, control, or                                                                                     |                   |            |            |                     |              |
|                | mitigate the consequences of those abnormal conditions or                                                                               |                   |            |            |                     |              |
| 40.01          | operations:                                                                                                                             |                   | 2.1        | 3 7        | 2 1                 | 2 7          |
| A2.01          | Initiation/reconfiguration                                                                                                              |                   | 3.I<br>7 1 | 3.2        | 3.1                 | 3.2          |
| A2.02          | Extreme environmental conditions                                                                                                        |                   | 2.4        | 3,4        | 3.1<br>2.4          | 5.4<br>2.6   |
| A2.03<br>A2.04 | Initiation/reconfiguration failure<br>Initiation/failure of fire protection system                                                      |                   | 3.4<br>3.1 | 3.3        | 3.4<br>3.1          | 3.0<br>3.3   |
| 47             | Ability to manifer automatic appreciants of the (41)                                                                                    | 7 / <b>AE 7</b> ) |            |            |                     |              |
| АЗ             | CONTROL ROOM HVAC including:                                                                                                            | (745.7)           |            |            |                     |              |
| A 3 01         | Initiation/reconfiguration                                                                                                              |                   | 33         | 35         | 33                  |              |
| A3.02          | Initiation/failure of fire protection system                                                                                            |                   | 3.0        | 3.4        | 3.0                 | 3.4          |
| A4             | Ability to manually operate and/or monitor in the control (41.7 room:                                                                   | 7 / 45.5 to 45.8) |            |            |                     |              |
| A4.01          | Initiate/reset system                                                                                                                   |                   | 3.2        | 3.2        | 3.2                 | 3.2          |
| A4.02          | Fans                                                                                                                                    |                   | 2.8        | 2.8        | 2.8                 | 2.8          |
| A4.03          | Reposition dampers                                                                                                                      |                   | 2.8        | 2.8        | 2.8                 | 2.8          |
| A4.04          | Environmental conditions                                                                                                                |                   | 2.8        | 3.0        | 2.8                 | 3.0          |

System Number:

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|          |        | System Name:                                    | GENERIC                                                                                                                    |                               | NRC | Imp | Facili | ty Imp |
|----------|--------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----|-----|--------|--------|
| ~        |        |                                                 |                                                                                                                            | CFR                           | RO  | SRO | RO     | SRO    |
|          | 2.1    | Conduct of Op                                   | perations                                                                                                                  |                               |     |     |        |        |
|          | 2.1.1  | Knowledge o                                     | f conduct of operations requirements.                                                                                      | (41.10/45.13)                 | 3.7 | 3.8 | 3.7    | 3.8    |
|          | 2.1.2  | Knowledge o<br>plant operation                  | f operator responsibilities during all modes of on.                                                                        | (41.10/45.13)                 | 3,0 | 4.0 | 3.0    | 4.0    |
|          | 2.1.3  | Knowledge o                                     | f shift turnover practices.                                                                                                | (41.10/45.13)                 | 3.0 | 3.4 | 3.0    | 3.4    |
|          | 2.1.4  | Knowledge o                                     | f shift staffing requirements.                                                                                             | (41.10 / 43.2)                | 2.3 | 3.4 | 2.3    | 3.4    |
|          | 2.1.5  | Ability to loc<br>to shift staffir              | ate and use procedures and directives related ag and activities.                                                           | (41.10 / 43.5 / 45.12)        | 2.3 | 3.4 | 2.3    | 3.4    |
|          | 2.1.6  | Ability to sup<br>plant transien                | ervise and assume a management role during<br>ts and upset conditions.                                                     | (43.5 / 45.12 / 45.13)        | 2.1 | 4.3 | 2.1    | 4.3    |
|          | 2.1.7  | Ability to eva<br>judgments ba<br>behavior, and | iluate plant performance and make operational sed on operating characteristics, reactor instrument interpretation.         | (43.5 / 45.12 / 45.13)        | 3.7 | 4.4 | 3.7    | 4.4    |
|          | 2.1.8  | Ability to coor<br>room,                        | ordinate personnel activities outside the control                                                                          | (45.5 / 45.12 / 45.13)        | 3.8 | 3.6 | 3.8    | 3.6    |
|          | 2,1,9  | Ability to dire<br>room.                        | ect personnel activities inside the control                                                                                | (45.5 / 45.12 / 45.13)        | 2.5 | 4,0 | 2.5    | 4.0    |
|          | 2,1,10 | Knowledge o<br>license.                         | f conditions and limitations in the facility                                                                               | (43.1 / 45.13)                | 2.7 | 3.9 | 2.7    | 3.9    |
|          | 2.1.11 | Knowledge o<br>action statem                    | f less than one hour technical specification<br>ents for systems.                                                          | (43.2/45.13)                  | 3.0 | 3.8 | 3.0    | 3.8    |
|          | 2.1.12 | Ability to app                                  | bly technical specifications for a system.                                                                                 | (43.2 / 43.5 / 45.3)          | 2.9 | 4.0 | 2.9    | 4.0    |
| $\smile$ | 2.1.13 | Knowledge o<br>controlled acc                   | f facility requirements for controlling vital / cess.                                                                      | (41.10 / 43.5 / 45.9 / 45.10) | 2.0 | 2.9 | 2.0    | 2.9    |
|          | 2.1.14 | Knowledge o<br>notification o                   | f system status criteria which require the flant personnel.                                                                | (43.5 / 45.12)                | 2.5 | 3.3 | 2.5    | 3.3    |
|          | 2.1.15 | Ability to ma<br>standing orde                  | nage short-term information such as night and rs.                                                                          | (45.12)                       | 2.3 | 3.0 | 2.3    | 3.0    |
|          | 2.1.16 | Ability to ope<br>radio.                        | erate plant phone, paging system, and two-way                                                                              | (41.10 / 45.12)               | 2.9 | 2.8 | 2.9    | 2.8    |
|          | 2,1.17 | Ability to ma                                   | ke accurate, clear and concise verbal reports.                                                                             | (45.12/45.13)                 | 3.5 | 3.6 | 3.5    | 3.6    |
|          | 2.1.18 | Ability to ma<br>status boards.                 | ke accurate, clear and concise logs, records,<br>and reports.                                                              | (45.12 / 45.13)               | 2.9 | 3.0 | 2.9    | 3.0    |
|          | 2.1.19 | Ability to use<br>parametric in                 | plant computer to obtain and evaluate formation on system or component status.                                             | (45.12)                       | 3.0 | 3.0 | 3.0    | 3.0    |
|          | 2.1.20 | Ability to exe                                  | cute procedure steps.                                                                                                      | (41.10 / 43.5 / 45.12)        | 4.3 | 4.2 | 4.3    | 4.1    |
|          | 2.1.21 | Ability to obt                                  | ain and verify controlled procedure copy.                                                                                  | (45.10/45.13)                 | 3.1 | 3.2 | 3.1    | 3.1    |
|          | 2.1.22 | Ability to det                                  | ermine Mode of Operation.                                                                                                  | (43.5 / 45.13)                | 2.8 | 3.3 | 2.8    | 3.     |
|          | 2.1.23 | Ability to per<br>procedures di                 | form specific system and integrated plant uring different modes of plant operation.                                        | (45.2 / 45.6)                 | 3.9 | 4.0 | 3.9    | 4.     |
|          | 2.1.24 | Ability to obt<br>mechanical d                  | ain and interpret station electrical and rawings.                                                                          | (45.12 / 45.13)               | 2.8 | 3.1 | 2.8    | 3.     |
|          | 2.1.25 | Ability to obt<br>such as graph<br>performance  | ain and interpret station reference materials<br>is, monographs, and tables which contain<br>data.                         | (41.10 / 43.5 / 45.12)        | 2.8 | 3.1 | 2.8    | 3      |
|          | 2.1.26 | Knowledge o<br>equipment, el<br>caustic, chlor  | f non-nuclear safety procedures (e.g. rotating<br>ectrical, high temperature, high pressure,<br>ine, oxygen and hydrogen). | (41.10 / 45.12)               | 2.2 | 2.6 | 2.2    | 2      |
|          | 2.1.27 | Knowledge o                                     | f system purpose and/or function.                                                                                          | (41.7)                        | 2.8 | 2.9 | 2.8    |        |

#### System Number:

|        | System Name: GENERIC                                                                                                                            |                      | NRC | Imp | <u>Facili</u> | ty Im |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|-----|---------------|-------|
|        |                                                                                                                                                 | CFR                  | RO  | SRO | RO            | S     |
| 2.1    | Conduct of Operations                                                                                                                           |                      |     |     |               |       |
| 2.1.28 | Knowledge of the purpose and function of major system components and controls.                                                                  | (41.7)               | 3.2 | 3.3 | 3.2           | 3.3   |
| 2.1.29 | Knowledge of how to conduct and verify valve lineups.                                                                                           | (41.10/45.1/45.12)   | 3.4 | 3.3 | 3.4           | 3.3   |
| 2.1.30 | Ability to locate and operate components, including local controls.                                                                             | (41.7 / 45.7)        | 3.9 | 3.4 | 3.9           | 3.4   |
| 2.1.31 | Ability to locate control room switches, controls and indications and to determine that they are correctly reflecting the desired plant lineup. | (45.12)              | 4.2 | 3.9 | 4.2           | 3.9   |
| 2.1.32 | Ability to explain and apply system limits and precautions.                                                                                     | (41.10/43.2/45.12)   | 3.4 | 3.8 | 3.4           | 3.8   |
| 2.1.33 | Ability to recognize indications for system operating<br>parameters which are entry-level conditions for technical<br>specifications.           | (43.2 / 43.3 / 45.3) | 3.4 | 4.0 | 3.4           | 4.0   |
| 2.1.34 | Ability to maintain primary and secondary plant chemistry within allowable limits.                                                              | (41.10/43.5/45.12)   | 2.3 | 2.9 | 2.3           | 2.9   |

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#### System Number:

|        |                                | <u>System Name:</u> GENERIC                                           |                                       |     | NRC Imp |                   | ty Imp |
|--------|--------------------------------|-----------------------------------------------------------------------|---------------------------------------|-----|---------|-------------------|--------|
| ·~     |                                |                                                                       | CFR                                   | RO  | SRO     | RO                | SRO    |
|        | 22                             | Fauinment Control                                                     |                                       |     |         |                   |        |
|        | 221                            | Ability to perform pre-startup procedures for the facility (45.)      | )                                     | 37  | 3.6     | 37                | 3.6    |
|        | 2.2.1                          | including operating those controls associated with plant              | ,                                     | 5.1 | 2.0     | 2                 | 010    |
|        |                                | equipment that could affect reactivity.                               |                                       |     |         |                   |        |
|        | 2.2.2                          | Ability to manipulate the console controls as required to (45.2)      | 2)                                    | 4.0 | 3.5     | 4.0               | 3.5    |
|        |                                | operate the facility between shutdown and designated                  |                                       |     |         |                   |        |
|        |                                | power levels.                                                         |                                       |     |         |                   |        |
|        | 2.2.3                          | (multi-unit) Knowledge of the design, procedural, and operational/    | 43 / 45)                              | 3.1 | 3.3     | 3.1               | 3.3    |
|        |                                | differences between units.                                            |                                       |     |         |                   |        |
|        | 2.2.4                          | (multi-unit) Ability to explain the variations in control board (45.1 | -45.13)                               | 2.8 | 3.0*    | 2.8               | 3.0    |
|        |                                | layouts, systems, instrumentation and procedural actions between-     |                                       |     |         |                   |        |
|        | 2.2.5                          | units at a facility.                                                  | 1 1 - 1 - 2 - 2                       | . / | ~ ~     |                   |        |
|        | 2.2.5                          | Knowledge of the process for making changes in the (43.3              | (45.13)                               | 1.6 | 2.7     | 1.6               | 2.7    |
|        | 226                            | facility as described in the safety analysis report.                  | 146 12)                               | 2.2 | 2.2     | 22                | 2.2    |
|        | 2.2.0                          | nowledge of the process for making changes in (43.5                   | (43.15)                               | 2.5 | 3.3     | 2.5               | 5.5    |
|        | 227                            | Knowledge of the process for conducting tests or (43.3)               | ( 15 13)                              | 2.0 | 37      | 20                | 37     |
|        | 4.4.1                          | experiments not described in the safety analysis report               | · · · · · · · · · · · · · · · · · · · | 2.0 | .2      | 2.0               | 9.2    |
|        | 2.2.8                          | Knowledge of the process for determining if the proposed (43.3        | 8 / 45.13)                            | 1.8 | 3.3     | 1.8               | 3.3    |
|        | ~                              | change, test, or experiment involves an unreviewed safety             |                                       |     | 010     |                   | 0.10   |
|        |                                | question.                                                             |                                       |     |         |                   |        |
|        | 2.2.9                          | Knowledge of the process for determining if the proposed (43.3        | 3 / 45.13)                            | 2.0 | 3.3     | 2.0               | 3.3    |
|        |                                | change, test or experiment increases the probability of               |                                       |     |         |                   |        |
| $\sim$ |                                | occurrence or consequences of an accident during the                  |                                       |     |         |                   |        |
|        |                                | change, test or experiment.                                           |                                       |     |         |                   |        |
|        | 2.2.10                         | Knowledge of the process for determining if the margin of (43.3       | 3 / 45.13)                            | 1.9 | 3.3     | 1.9               | 3.3    |
|        |                                | safety, as defined in the basis of any technical specification        |                                       |     |         |                   |        |
|        | 2211                           | is reduced by a proposed change, test or experiment.                  | 0 / 40 0 / 45 10)                     | 2.5 | 2.4*    | <b>3</b> <i>E</i> | 2.4    |
|        | 2.2.11                         | Knowledge of the process for controlling temporary (41.)              | (0/43.3/45.13)                        | 2.5 | 3.4*    | 2.5               | 3.4    |
|        | 2212                           | changes. (A) 1                                                        | 10 / 45 13)                           | 2.0 | 34      | 3.0               | 3.4    |
|        | 2.2.12                         | Knowledge of tagging and cleatance procedures (41.1)                  | 10/45.13                              | 3.6 | 38      | 3.6               | 3.8    |
|        | 2.2.14                         | Knowledge of the process for making configuration (43.3               | 8/45 13)                              | 2.1 | 3.0     | 21                | 3.0    |
|        | <b>A</b> . <b>A</b> . <b>1</b> | changes.                                                              | ,, 15.15)                             | 2.1 | 5.0     | <i>2</i>          | 5.0    |
|        | 2.2.15                         | Ability to identify and utilize as-built design and (43.3)            | 3 / 45.13)                            | 2,2 | 2.9     | 2.2               | 2.9    |
|        |                                | configuration change documentation to ascertain expected              | ,                                     |     |         |                   |        |
|        |                                | current plant configuration and operate the plant.                    |                                       |     |         |                   |        |
|        | 2.2.16                         | Knowledge of the process for making of field changes. (41.)           | 10 / 45.13)                           | 1.9 | 2.6*    | 1.9               | 2.€    |
|        | 2.2.17                         | Knowledge of the process for managing maintenance (43.5               | 5 / 45.13)                            | 2.3 | 3.5     | 2.3               | 3.:    |
|        |                                | activities during power operations.                                   |                                       |     |         |                   |        |
|        | 2.2.18                         | Knowledge of the process for managing maintenance (43.5               | 5 / 45.13)                            | 2.3 | 3.6     | 2.3               | 3.0    |
|        |                                | activities during shutdown operations.                                |                                       |     |         | _                 | _      |
|        | 2.2.19                         | Knowledge of maintenance work order requirements. (43.3               | 5 / 45.13)                            | 2.1 | 3.1     | 2.1               | 3.     |
|        | 2.2.20                         | Knowledge of the process for managing troubleshooting (43.            | 5 / 45.13)                            | 2.2 | 3.3     | 2.2               | 3.     |
|        | 2.2.2.1                        | activities.                                                           | •                                     | 0.0 | 25      | 2.2               | 2      |
|        | 2.2.21                         | Knowledge of pre and post maintenance operability (43.)               | 2)                                    | 2.3 | 3.3     | 2.3               | 5      |
|        | 2222                           | requirements.                                                         | 7 / 15 2)                             | 2.4 | A 1     | 31                | Л      |
|        | 4.4.22                         | knowledge of himling conditions for operations and safety (45.4       | c ( 4).2)                             | 2,4 | -7.1    | 4.د               | 4      |
|        | 2223                           | Ability to track limiting conditions for operations (43)              | 2/45 13)                              | 2.6 | 38      | 26                | 3      |
|        | a. a. <u>6.</u> 1              | many to now minung continuous for operations. (43.                    |                                       | 2.0 | 0.0     | 2.0               | ~      |

| System Name: |                                                                                | GENERIC                                                                                                                                                                                                     |                               | NRC | նաթ  | Facili | ity Iv |
|--------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----|------|--------|--------|
|              |                                                                                |                                                                                                                                                                                                             | CFR                           | RO  | SRO  | RO     | 5      |
| 2.2          | Equipment Co                                                                   | ontrol                                                                                                                                                                                                      |                               |     |      |        |        |
| 2.2.24       | Ability to ana LCO status.                                                     | lyze the affect of maintenance activities on                                                                                                                                                                | (43.2 / 45.13)                | 2.6 | 3.8  | 2.6    | 3.8    |
| 2.2.25       | Knowledge o<br>conditions for                                                  | f bases in technical specifications for limiting<br>r operations and safety limits.                                                                                                                         | (43.2)                        | 2.5 | 3.7  | 2,5    | 3.7    |
| 2.2.26       | Knowledge o                                                                    | f refueling administrative requirements.                                                                                                                                                                    | (43.5 / 45.13)                | 2.5 | 3.7  | 2.5    | 3.7    |
| 2.2.27       | Knowledge o                                                                    | f the refueling process.                                                                                                                                                                                    | (43.6/45.13)                  | 2.6 | 3.5  | 2.6    | 3.5    |
| 2.2.28       | Knowledge o                                                                    | f new and spent fuel movement procedures.                                                                                                                                                                   | (43.7 / 45.13)                | 2.6 | 3.5  | 2.6    | 3.5    |
| 2.2.29       | Knowledge o                                                                    | f SRO fuel handling responsibilities.                                                                                                                                                                       | (43.6 / 45.12)                | 1.6 | 3.8  | 1.6    | 3.8    |
| 2.2.30       | Knowledge o<br>handling such<br>communicatio<br>from the cont<br>and supportin | f RO duties in the control room during fuel<br>as alarms from fuel handling area /<br>on with fuel storage facility / systems operated<br>rol room in support of fueling operations /<br>g instrumentation. | (45.12)                       | 3.5 | 3.3  | 3.5    | 3.3    |
| 2.2.31       | Knowledge o<br>core loading.                                                   | f procedures and limitations involved in initial                                                                                                                                                            | (43.6)                        | 2.2 | 2.9* | 2.2    | 2.9    |
| 2.2.32       | Knowledge o<br>configuration                                                   | f the effects of alterations on core                                                                                                                                                                        | (43.6)                        | 2.3 | 3.3  | 2.3    | 3.3    |
| 2.2.33       | Knowledge o                                                                    | f control rod programming.                                                                                                                                                                                  | (43.6)                        | 2.5 | 2.9  | 2.5    | 2.9    |
| 2.2.34       | Knowledge o<br>external effec                                                  | f the process for determining the internal and<br>ts on core reactivity.                                                                                                                                    | (43.6)                        | 2.8 | 3.2* | 2.8    | 3.2    |
| 2.3          | Radiological C                                                                 | ontrols                                                                                                                                                                                                     |                               |     |      |        |        |
| 2.3.1        | Knowledge of<br>control requir                                                 | f 10 CFR 20 and related facility radiation ements.                                                                                                                                                          | (41.12 / 43.4 / 45.9 / 45.10) | 2.6 | 3.0  | 2.6    | 3.0    |
| 2.3.2        | Knowledge of                                                                   | f facility ALARA program.                                                                                                                                                                                   | (41.12 / 43.4 / 45.9 / 45.10) | 2.5 | 2.9  | 2,5    | 2.9    |
| 2.3.3        | Knowledge of<br>that are outsid<br>handling syste                              | f SRO responsibilities for auxiliary systems<br>le the control room (e.g., waste disposal and<br>ems).                                                                                                      | (43.4 / 45.10)                | 1.8 | 2.9  | 1.8    | 2.9    |
| 2.3.4        | Knowledge of<br>control, includ<br>authorized.                                 | f radiation exposure limits and contamination<br>ling permissible levels in excess of those                                                                                                                 | (43.4 / 45.10)                | 2,5 | 3.1  | 2.5    | 3.1    |
| 2.3.5        | Knowledge of equipment.                                                        | f use and function of personnel monitoring                                                                                                                                                                  | (41.11 / 45.9)                | 2.3 | 2.5  | 2.3    | 2.5    |
| 2.3.6        | Knowledge of<br>approving rel                                                  | f the requirements for reviewing and ease permits.                                                                                                                                                          | (43.4 / 45.10)                | 2.1 | 3.1  | 2.1    | 3.1    |
| 2.3.7        | Knowledge of permit.                                                           | the process for preparing a radiation work                                                                                                                                                                  | (41.10 / 45.12)               | 2.0 | 3.3  | 2.0    | 3.3    |
| 2.3.8        | Knowledge of gaseous radio                                                     | f the process for performing a planned active release.                                                                                                                                                      | (43.4 / 45.10)                | 2.3 | 3.2  | 2.3    | 3.2    |
| 2.3.9        | Knowledge of purge.                                                            | f the process for performing a containment                                                                                                                                                                  | (43.4 / 45.10)                | 2.5 | 3.4  | 2.5    | 3.4    |
| 1.3.10       | Ability to per-<br>radiation and                                               | form procedures to reduce excessive levels of guard against personnel exposure.                                                                                                                             | (43.4 / 45.10)                | 2.9 | 3.3  | 2.9    | 3.3    |
| .3.11        | Ability to con                                                                 | trol radiation releases.                                                                                                                                                                                    | (45.9 / 45.10)                | 2.7 | 3.2  | 2.7    | 3.2    |

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Facility: CPS

System Number:

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|             | System Name:                                                                       | GENERIC                                                                                                                             |                        | NRC | <u>]mp</u> | <u>Facili</u> | t <u>y I</u> mp |
|-------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|------------|---------------|-----------------|
|             |                                                                                    |                                                                                                                                     | CFR                    | RO  | SRO        | RO            | SRO             |
| 2.4         | Emergency Pr                                                                       | ocedures and Plan                                                                                                                   |                        |     |            |               |                 |
| 2.4.1       | Knowledge o<br>steps.                                                              | f EOP entry conditions and immediate action                                                                                         | (41.10 / 43.5 / 45.13) | 4.3 | 4.6        | 4.3           | 4.6             |
| 2.4.2       | Knowledge o<br>actions assoc                                                       | f system set points, interlocks and automatic iated with EOP entry conditions.                                                      | (41.7 / 45.7 / 45.8)   | 3.9 | 4.1        | 3.9           | 4.1             |
| 2.4.3       | Ability to ide                                                                     | ntify post-accident instrumentation.                                                                                                | (41.6 / 45.4)          | 3.5 | 3.8        | 3.5           | 3.8             |
| 2.4.4       | Ability to rec<br>operating par<br>emergency ar                                    | ognize abnormal indications for system<br>ameters which are entry-level conditions for<br>and abnormal operating procedures.        | (41.10/43.2/45.6)      | 4.0 | 4.3        | 4.0           | 4.3             |
| 2.4.5       | Knowledge o<br>network for n                                                       | f the organization of the operating procedures ormal, abnormal, and emergency evolutions.                                           | (41.10 / 43.5 / 45.13) | 2.9 | 3.6        | 2.9           | 3.6             |
| 2.4.6       | Knowledge s                                                                        | ymptom based EOP mitigation strategies.                                                                                             | (41.10 / 43.5 / 45.13) | 3.1 | 4.0        | 3.1           | 4.0             |
| 2.4.7       | Knowledge o                                                                        | f event based EOP mitigation strategies.                                                                                            | (41.10 / 43.5 / 45.13) | 3.1 | 3.8        | 3.1           | 3.8             |
| 2.4.8       | Knowledge o<br>operating pro<br>symptom-bas                                        | f how the event-based emergency/abnormal cedures are used in conjunction with the ed EOPs.                                          | (41.10 / 43.5 / 45.13) | 3.0 | 3.7        | 3.0           | 3.7             |
| 2.4.9       | Knowledge o<br>accident (e.g.                                                      | f low power / shutdown implications in<br>LOCA or loss of RHR) mitigation strategies.                                               | (41.10 / 43.5 / 45.13) | 3.3 | 3.9        | 3.3           | 3.9             |
| 2.4.10      | Knowledge o                                                                        | f annunciator response procedures.                                                                                                  | (41.10 / 43.5 / 45.13) | 3.0 | 3.1        | 3.0           | 3.1             |
| 2.4.11      | Knowledge o                                                                        | f abnormal condition procedures.                                                                                                    | (41.10 / 43.5 / 45.13) | 3.4 | 3.6        | 3.4           | 3.6             |
| 2.4.12      | Knowledge o<br>during emerg                                                        | f general operating crew responsibilities<br>ency operations.                                                                       | (41.10/45.12)          | 3.4 | 3.9        | 3.4           | 3.9             |
| 2.4.13<br>• | Knowledge o<br>flowchart use                                                       | f crew roles and responsibilities during EOP                                                                                        | (41.10 / 45.12)        | 3.3 | 3.9        | 3.3           | 3.9             |
| 2.4.14      | Knowledge o                                                                        | f general guidelines for EOP flowchart use.                                                                                         | (41.10/45.13)          | 3.0 | 3.9        | 3.0           | 3.9             |
| 2.4.15      | Knowledge o<br>EOP impleme                                                         | f communications procedures associated with entation.                                                                               | (41.10 / 45.13)        | 3.0 | 3.5        | 3.0           | 3.5             |
| 2.4.16      | Knowledge o<br>coordination                                                        | f EOP implementation hierarchy and with other support procedures.                                                                   | (41.10 / 43.5 / 45.13) | 3.0 | 4.0        | 3.0           | 4.0             |
| 2.4.17      | Knowledge o                                                                        | f EOP terms and definitions.                                                                                                        | (41.10/45.13)          | 3.1 | 3.8        | 3.1           | 3.8             |
| 2.4.18      | Knowledge o                                                                        | f the specific bases for EOPs.                                                                                                      | (41.10/45.13)          | 2.7 | 3.6        | 2.7           | 3.6             |
| 2.4.19      | Knowledge o                                                                        | f EOP layout, symbols, and icons.                                                                                                   | (41.10/45.13)          | 2.7 | 3.7        | 2.7           | 3.7             |
| 2.4.20      | Knowledge o<br>cautions, and                                                       | f operational implications of EOP warnings, notes.                                                                                  | (41.10 / 45.13)        | 3.3 | 4.0        | 3.3           | 4.0             |
| 2.4.21      | Knowledge o<br>status of safet<br>1.Reactivity o<br>2.Core coolin<br>3.Reactor coo | f the parameters and logic used to assess the<br>ty functions including:<br>control<br>g and heat removal<br>plant system integrity | (43.5 / 45.12)         | 3.7 | 4.3        | 3.7           | 4.3             |
| 0.4.00      | 4.Containmer<br>5.Radioactivi                                                      | nt conditions<br>ty release control.                                                                                                |                        | 2.0 | 4.0        | 2.0           | 4.0             |
| 2.4.22      | Knowledge o<br>during abnor                                                        | t the bases for prioritizing safety functions nal/emergency operations.                                                             | (43.5 / 45.12)         | 3.0 | 4.0        | 3.0           | 4.0             |
| 2.4.23      | Knowledge o<br>procedure im                                                        | f the bases for prioritizing emergency plementation during emergency operations.                                                    | (41.10 / 45.13)        | 2.8 | 3.8        | 2.8           | 3.8             |
| 2.4.24      | Knowledge o                                                                        | f loss of cooling water procedures.                                                                                                 | (41.10/45.13)          | 3.3 | 3.7        | 3.3           | 3.7             |
| 2.4.25      | Knowledge o                                                                        | f fire protection procedures.                                                                                                       | (41.10 / 45.13)        | 2.9 | 3.4        | 2.9           | 3.4             |
| 2.4.26      | Knowledge o<br>fire brigade a                                                      | f facility protection requirements including<br>nd portable fire fighting equipment usage.                                          | (43.5 / 45.12)         | 2.9 | 3.3        | 2.9           | 3.3             |
| 2.4.27      | Knowledge o                                                                        | f fire in the plant procedure.                                                                                                      | (41.10 / 43.5 / 45.13) | 3.0 | 3.5        | 3.0           | 3.5             |

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| Printed: | 08/11/2006 |
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<u>Facility I</u>

NRC Imp

### System Number:

Facility: CPS

System Name: GENERIC

|        |                                                                                                                                                                                     | CFR                    | RO  | SRO | RO  | k.  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-----|-----|
| 2.4    | Emergency Procedures and Plan                                                                                                                                                       |                        |     |     |     |     |
| 2.4.28 | Knowledge of procedures relating to emergency response to sabotage.                                                                                                                 | (41.10 / 43.5 / 45.13) | 2.3 | 3.3 | 2.3 | 3.3 |
| 2.4.29 | Knowledge of the emergency plan.                                                                                                                                                    | (43.5 / 45.11)         | 2.6 | 4.0 | 2.6 | 4.0 |
| 2.4.30 | Knowledge of which events related to system operations/status should be reported to outside agencies.                                                                               | (43.5 / 45.11)         | 2.2 | 3.6 | 2.2 | 3.6 |
| 2.4.31 | Knowledge of annunciators alarms and indications, and use<br>of the response instructions.                                                                                          | (41.10 / 45.3)         | 3.3 | 3.4 | 3.3 | 3.4 |
| 2.4.32 | Knowledge of operator response to loss of all annunciators                                                                                                                          | (41.10/43.5/45.13)     | 33  | 35  | 33  | 35  |
| 2.4.33 | Knowledge of the process used track inonerable alarms                                                                                                                               | (41.10/43.5/45.13)     | 24  | 2.8 | 24  | 2.8 |
| 2.4.34 | Knowledge of RO tasks performed outside the main control<br>room during emergency operations including system<br>geography and system implications.                                 | (43.5 / 45.13)         | 3.8 | 3.6 | 3.8 | 3.6 |
| 2.4.35 | Knowledge of local auxiliary operator tasks during<br>emergency operations including system geography and<br>system implications.                                                   | (43.5 / 45.13)         | 3.3 | 3.5 | 3.3 | 3.5 |
| 2.4.36 | Knowledge of chemistry / health physics tasks during emergency operations.                                                                                                          | (43.5)                 | 2.0 | 2.8 | 2.0 | 2.8 |
| 2.4.37 | Knowledge of the lines of authority during an emergency.                                                                                                                            | (45.13)                | 2.0 | 3.5 | 2.0 | 3.5 |
| 2.4.38 | Ability to take actions called for in the facility emergency<br>plan, including (if required)supporting or acting as<br>emergency coordinator.                                      | (43.5 / 45.11)         | 2.2 | 4.0 | 2.2 | 4.0 |
| 2.4.39 | Knowledge of the RO's responsibilities in emergency plan implementation.                                                                                                            | (45.11)                | 3.3 | 3.1 | 3.3 | 3   |
| 2.4.40 | Knowledge of the SRO's responsibilities in emergency plan implementation.                                                                                                           | (45.11)                | 2.3 | 4.0 | 2.3 | 4.0 |
| 2.4.41 | Knowledge of the emergency action level thresholds and classifications.                                                                                                             | (43.5 / 45.11)         | 2.3 | 4.1 | 2.3 | 4.1 |
| 2.4.42 | Knowledge of emergency response facilities.                                                                                                                                         | (45.11)                | 2.3 | 3.7 | 2.3 | 3.7 |
| 2.4.43 | Knowledge of emergency communications systems and techniques.                                                                                                                       | (45.13)                | 2.8 | 3.5 | 2.8 | 3.5 |
| 2.4.44 | Knowledge of emergency plan protective action recommendations.                                                                                                                      | (43.5 / 45.11)         | 2.1 | 4.0 | 2.1 | 4.0 |
| 2.4.45 | Ability to prioritize and interpret the significance of each annunciator or alarm.                                                                                                  | (43.5 / 45.3 / 45.12)  | 3.3 | 3.6 | 3.3 | 3.6 |
| 2.4.46 | Ability to verify that the alarms are consistent with the plant conditions.                                                                                                         | (43.5 / 45.3 / 45.12)  | 3.5 | 3.6 | 3.5 | 3.6 |
| 2.4.47 | Ability to diagnose and recognize trends in an accurate and<br>timely manner utilizing the appropriate control room<br>reference material.                                          | (41.10 / 43.5 / 45.12) | 3.4 | 3.7 | 3.4 | 3.7 |
| 2.4.48 | Ability to interpret control room indications to verify the status and operation of system, and understand how operator action s and directives affect plant and system conditions. | (43.5 / 45.12)         | 3.5 | 3.8 | 3.5 | 3.8 |
| 2.4.49 | Ability to perform without reference to procedures those<br>actions that require immediate operation of system<br>components and controls.                                          | (41.10 / 43.2 / 45.6)  | 4.0 | 4.0 | 4.0 | 4.0 |
| 2.4.50 | Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.                                                                              | (45.3)                 | 3.3 | 3.3 | 3.3 | 3   |

| Facility:   | CPS  | Printed: | 08/11/2006 |
|-------------|------|----------|------------|
| System Numb | oer: |          |            |

System Name: GENERIC

|          | Facility: CPS                                                 |                                                                                                          |                 | Printed: 08/11/2006 |     |        |        |
|----------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------|---------------------|-----|--------|--------|
|          | <u>System Number:</u>                                         | 295001                                                                                                   |                 |                     |     |        |        |
|          | System Name:                                                  | Partial or Complete Loss of Forced Core                                                                  | Flow            | NRC                 | Imp | Facili | ty imp |
| <u> </u> | <u></u>                                                       | Circulation                                                                                              | CFR             | RO                  | SRO | RO     | SRO    |
| K1       | Knowledge of t<br>following conce<br>COMPLETE I<br>CIRCULATIO | he operational implications of the<br>epts as they apply to PARTIAL OR<br>LOSS OF FORCED CORE FLOW<br>N: | (41.8 to 41.10) |                     |     |        |        |
| AK1.01   | Natural circula                                               | ation                                                                                                    |                 | 3.5                 | 3.6 | 3.5    | 3.6    |
| AK1.02   | Power/flow di                                                 | stribution                                                                                               |                 | 3.3                 | 3.5 | 3.3    | 3.5    |
| AK1.03   | <b>†</b> Thermal limi                                         | ts                                                                                                       |                 | 3.6                 | 4.1 | 3.6    | 4.1    |
| AK1.04   | †Limiting cyc                                                 | le oscillation: Plant-Specific                                                                           |                 | 2.5                 | 3.3 | 2.5    | 3.3    |
| К2       | Knowledge of t<br>COMPLETE I<br>CIRCULATIO                    | be interrelations between PARTIAL OR<br>LOSS OF FORCED CORE FLOW                                         | (41.7, 45.8)    |                     |     |        |        |
| AK2.01   | Recirculation                                                 | system                                                                                                   |                 | 3.6                 | 3.7 | 3.6    | 3.7    |
| AK2.02   | Nuclear boiler                                                | instrumentation                                                                                          |                 | 3.2                 | 3.3 | 3.2    | 3.3    |
| AK2.03   | Reactor water                                                 | level                                                                                                    |                 | 3.6                 | 3.7 | 3.6    | 3.7    |
| AK2.04   | Reactor/turbin                                                | e pressure regulating system: Plant-Specific                                                             |                 | 3.3                 | 3.3 | 3.3    | 3.3    |
| AK2.05   | LPCI loop sele                                                | ct logic: Plant-Specific                                                                                 |                 | 3.2                 | 3.6 | 3.2    | 3.6    |
| AK2.06   | Reactor power                                                 | r                                                                                                        |                 | 3.8                 | 3.8 | 3.8    | 3.8    |
| AK2.07   | Core flow ind                                                 | ication                                                                                                  |                 | 3.4                 | 3.4 | 3.4    | 3.4    |
| AK2.08   | Standby-liquid                                                | control: BWR-1                                                                                           |                 | 2.5*                | 2.8 | 2.5    | 2.8    |
| .3       | Knowledge of t<br>they apply to P<br>FORCED COI               | the reasons for the following responses as<br>ARTIAL OR COMPLETE LOSS OF<br>RE FLOW CIRCULATION:         | (41.5 / 45.6)   |                     |     |        |        |
| AK3.01   | Reactor water                                                 | level response                                                                                           |                 | 3.4                 | 3.6 | 3.4    | 3.6    |
| AK3.02   | Reactor powe                                                  | r response                                                                                               |                 | 3.7                 | 3.8 | 3.7    | 3.8    |
| AK3.03   | Idle loop flow                                                | · ·                                                                                                      |                 | 2.8                 | 2.9 | 2.8    | 2.9    |
| AK3.04   | Reactor SCRA                                                  | λM                                                                                                       |                 | 3.4                 | 3.6 | 3.4    | 3.6    |
| AK3.05   | Reduced loop                                                  | operating requirements: Plant-Specific                                                                   |                 | 3.2                 | 3.6 | 3.2    | 3.6    |
| AK3.06   | Core flow ind                                                 | ication                                                                                                  |                 | 2.9                 | 3.0 | 2.9    | 3.0    |
| A1       | Ability to oper<br>apply to PART<br>FORCED COI                | ate and/or monitor the following as they<br>IAL OR COMPLETE LOSS OF<br>RE FLOW CIRCULATION:              | (41.7 / 45.6)   |                     |     |        |        |
| AA1.01   | Recirculation                                                 | system                                                                                                   |                 | 3.5                 | 3.6 | 3.5    | 3.6    |
| AA1.02   | RPS                                                           | •                                                                                                        |                 | 3.3                 | 3.3 | 3.3    | 3.3    |
| AA1.03   | RMCS: Plant-                                                  | Specific                                                                                                 |                 | 2.6                 | 2.7 | 2.6    | 2.7    |
| AA1.04   | Rod control a                                                 | nd information system: BWR-5&6                                                                           |                 | 2.6                 | 2.8 | 2.6    | 2.8    |
| AA1.05   | Recirculation                                                 | flow control system                                                                                      |                 | 3.3                 | 3.3 | 3.3    | 3.3    |
| AA1.06   | Neutron moni                                                  | toring system                                                                                            |                 | 3.3                 | 3.4 | 3.3    | 3.4    |
| AA1.07   | Nuclear boile                                                 | r instrumentation system                                                                                 |                 | 3.1                 | 3.2 | 3.1    | 3.2    |
| AA1.08   | Standby liquid                                                | -control: BWR-1                                                                                          |                 | 2.5*                | 2.8 | 2.5    | 2.8    |

|        | Facility: CPS                                       |                                                                                             | Printed: 08/11/2006    |     |     |               |               |
|--------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------|-----|-----|---------------|---------------|
|        | <u>System Number:</u>                               | 295001                                                                                      |                        |     |     |               |               |
|        | System Name: Partial or Complete Loss of Forced Cor |                                                                                             | re Flow                | NRC | lmp | <u>Facili</u> | <u>ty l</u> 7 |
|        |                                                     | Circulation                                                                                 | CFR                    | RO  | SRO | RO            | •             |
| A2     | Ability to deter<br>they apply to P<br>FORCED COR   | mine and/or interpret the following as<br>ARTIAL OR COMPLETE LOSS OF<br>E FLOW CIRCULATION: | (41.10 / 43.5 / 45.13) |     |     |               |               |
| AA2.01 | Power/flow ma                                       | ар                                                                                          |                        | 3.5 | 3.8 | 3.5           | 3.8           |
| AA2.02 | Neutron monit                                       | oring                                                                                       |                        | 3.1 | 3.2 | 3.1           | 3.2           |
| AA2.03 | Actual core flo                                     | W .                                                                                         |                        | 3.3 | 3.3 | 3.3           | 3.3           |
| AA2.04 | Individual jet j                                    | oump flows: Not-BWR-1&2                                                                     |                        | 3.0 | 3.1 | 3.0           | 3.1           |
| AA2.05 | Jet pump opera                                      | ability: Not-BWR-1&2                                                                        |                        | 3.1 | 3.4 | 3.1           | 3.4           |
| AA2.06 | Nuclear boiler                                      | instrumentation                                                                             |                        | 3.2 | 3.3 | 3.2           | 3.3           |

|          | Facility: CPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |      | Printed: 08/11/2006 |                |       |  |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------------------|----------------|-------|--|--|
|          | System Number: 295002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |                     |                |       |  |  |
|          | System Name: Loss of Main Condenser Vacuum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | NRC  | Imp                 | <u>Facilit</u> | y Imp |  |  |
| <u> </u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CFR    | RO   | SRO                 | RO             | SRO   |  |  |
| K1       | Knowledge of the operational implications of the (41.8 to 4<br>following concepts as they apply to LOSS OF MAIN<br>CONDENSER VACUUM:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11.10) |      |                     |                |       |  |  |
| AK1.01   | Plant efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | 2.1* | 2.5                 | 2.1            | 2.5   |  |  |
| AK1.02   | Turbine efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | 2.2* | 2.5                 | 2.2            | 2.5   |  |  |
| AK1.03   | Loss of heat sink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | 3.6  | 3.8                 | 3.6            | 3.8   |  |  |
| AK1.04   | Increased offgas flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 3.0  | 3.3                 | 3.0            | 3.3   |  |  |
| К2       | Knowledge of the interrelations between LOSS OF MAIN (41.7, 45. CONDENSER VACUUM and the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .8)    |      |                     |                |       |  |  |
| AK2.01   | RPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | 3.5  | 3.5                 | 3.5            | 3.5   |  |  |
| AK2.02   | Main turbine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 3.1  | 3.2                 | 3.1            | 3.2   |  |  |
| AK2.03   | PCIS/NSSSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 3.5  | 3.6                 | 3.5            | 3.6   |  |  |
| AK2.04   | Reactor/turbine pressure regulating system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 3.2  | 3.3                 | 3.2            | 3.3   |  |  |
| AK2.05   | Feedwater system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | 2.7  | 2.7                 | 2.7            | 2.7   |  |  |
| AK2.06   | Condensate system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | 2.6  | 2.7                 | 2.6            | 2.7   |  |  |
| AK2.07   | Offgas system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 3.1  | 3.1                 | 3.1            | 3.1   |  |  |
| AK2.08   | Condenser circulating water system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | 3.1  | 3.2                 | 3.1            | 3.2   |  |  |
| AK2.09   | Vacuum drag (low conductivity drain): Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 2.4  | 2.4                 | 2.4            | 2.4   |  |  |
| AK2.10   | Reactor recirculation system: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 2.4* | 2.5                 | 2.4            | 2.5   |  |  |
| AK2.11   | Seal steam: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 2.6  | 2.7                 | 2.6            | 2.7   |  |  |
| К3       | Knowledge of the reasons for the following responses as (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45) (41.5 / 45 | 5.6)   |      |                     |                |       |  |  |
| AK3.01   | Reactor SCRAM: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 3.7  | 3.8                 | 3.7            | 3.8   |  |  |
| AK3.02   | Turbine trip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 3.4  | 3.4                 | 3.4            | 3.4   |  |  |
| AK3.03   | Reactor feedpump turbine trip: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 3.3  | 3.3                 | 3.3            | 3.3   |  |  |
| AK3.04   | Bypass valve closure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 3.4  | 3.6                 | 3.4            | 3.6   |  |  |
| AK3.05   | Main steam isolation valve: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 3.4  | 3.4                 | 3.4            | 3.4   |  |  |
| AK3.06   | Air ejector flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | 2.9  | 2.9                 | 2.9            | 2.9   |  |  |
| AK3.07   | Decreased main generator output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | 2.4  | 2.5                 | 2.4            | 2.5   |  |  |
| AK3.08   | Recirculation system run-backs: Plant Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | 2.8  | 2.9                 | 2.8            | 2.9   |  |  |
| AK3.09   | Reactor power reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | 3.2  | 3.2                 | 3.2            | 3.2   |  |  |

|        | Facility: CPS                                                                                                              | Printed: 08/11/2006 |              |        |       |
|--------|----------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|--------|-------|
|        | System Number: 295002                                                                                                      | ·                   |              |        |       |
|        | System Name: Loss of Main Condenser Vacuum                                                                                 | NRC                 | <u>' Imp</u> | Facili | ty Ir |
|        | CFR                                                                                                                        | RO                  | SRO          | RO     | ٤     |
| A1     | Ability to operate and/or monitor the following as they (41.7 / 45.6) apply to LOSS OF MAIN CONDENSER VACUUM:              |                     |              |        |       |
| AA1.01 | Condensate system                                                                                                          | 2.6                 | 2.6          | 2.6    | 2.6   |
| AA1.02 | Offgas system                                                                                                              | 2.9                 | 2.9          | 2.9    | 2.9   |
| AA1.03 | RPS                                                                                                                        | 3.4                 | 3.5          | 3.4    | 3.5   |
| AA1.04 | PCIS/NSSSS                                                                                                                 | 3.3                 | 3.4          | 3.3    | 3.4   |
| AA1.05 | Main turbine                                                                                                               | 3.2                 | 3.2          | 3.2    | 3.2   |
| AA1.06 | Reactor/turbine pressure regulating system                                                                                 | 3.0                 | 3.1          | 3.0    | 3.1   |
| AA1.07 | Condenser circulating water system                                                                                         | 3.1                 | 2.9          | 3.1    | 2.9   |
| AA1.08 | Recirculating flow control system                                                                                          | 2.6                 | 2.7          | 2.6    | 2.7   |
| AA1.09 | Reactor manual control/rod control and information system                                                                  | 2.4                 | 2.4          | 2.4    | 2.4   |
| AA1.10 | Feedwater system: Plant-Specific                                                                                           | 2.7                 | 2.7          | 2.7    | 2.7   |
| A2     | Ability to determine and/or interpret the following as (41.10 / 43.5 / 45.13) they apply to LOSS OF MAIN CONDENSER VACUUM: |                     |              |        |       |
| AA2.01 | Condenser vacuum/absolute pressure                                                                                         | 2.9                 | 3.1          | 2.9    | 3.1   |
| AA2.02 | Reactor power: Plant-Specific                                                                                              | 3.2                 | 3.3          | 3.2    | 3.3   |
| AA2.03 | Generator output                                                                                                           | 2.3                 | 2.4          | 2.3    | 2.4   |
| AA2.04 | Offgas system flow                                                                                                         | 2.8                 | 2.9          | 2.8    | 2.9   |

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| Printed: | 08/ | 11/ | 2006 |
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|   |        | Facility: CPS                                |                                                                                                |                 |      | Printe | d: 08/1       | 1/2006 |
|---|--------|----------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|------|--------|---------------|--------|
|   |        | <u>System Number:</u>                        | 295003                                                                                         |                 |      |        |               |        |
|   |        | System Name:                                 | Partial or Complete Loss of A.C. Power                                                         |                 | NRC  | lmp    | <u>Facili</u> | ty Imp |
| ~ | - ·    |                                              |                                                                                                | CFR             | RO   | SRO    | RO            | SRO    |
|   | К1     | Knowledge of a following conce<br>COMPLETE I | the operational implications of the<br>epts as they apply to PARTIAL OR<br>LOSS OF A.C. POWER: | (41,8 to 41,10) |      |        |               |        |
|   | AK1.01 | Effect of batte                              | ery discharge rate on capacity                                                                 |                 | 2.7  | 2.9    | 2.7           | 2.9    |
|   | AK1.02 | Load shedding                                | g                                                                                              |                 | 3.1  | 3.4    | 3.1           | 3.4    |
|   | AK1.03 | Under voltage                                | e/degraded voltage effects on electrical loads                                                 |                 | 2.9  | 3.2    | 2.9           | 3.2    |
|   | AK1.04 | Electrical bus                               | divisional separation                                                                          |                 | 3.1  | 3.2    | 3.1           | 3.2    |
|   | AK1.05 | Failsafe com                                 | oonent design                                                                                  |                 | 2.6  | 2.7    | 2.6           | 2.7    |
|   | AK1.06 | Station black                                | out: Plant-Specific                                                                            |                 | 3.8  | 4.0*   | 3.8           | 4.0    |
|   | К2     | Knowledge of<br>COMPLETE I                   | the interrelations between PARTIAL OR<br>LOSS OF A.C. POWER and the following:                 | (41.7, 45.8)    |      |        |               |        |
|   | AK2.01 | Station batter                               | ies                                                                                            |                 | 3.2  | 3.2    | 3.2           | 3.2    |
|   | AK2.02 | Emergency ge                                 | enerators                                                                                      |                 | 4.1* | 4.2*   | 4.1           | 4.2    |
|   | AK2.03 | A.C. electrica                               | l distribution system                                                                          |                 | 3.7  | 3.9    | 3.7           | 3.9    |
|   | AK2,04 | A.C. electrica                               | l loads                                                                                        |                 | 3.4  | 3.5    | 3.4           | 3.5    |
|   | AK2.05 | Isolation cond                               | enser: Plant-Specific                                                                          |                 | 3.8* | 4.0    | 3.8           | 4.0    |
|   | AK2.06 | D.C. electrica                               | il loads                                                                                       |                 | 3.4  | 3.5    | 3.4           | 3.5    |
|   | К3     | Knowledge of<br>they apply to I<br>POWER:    | the reasons for the following responses as<br>PARTIAL OR COMPLETE LOSS OF A.C.                 | (41.5 / 45.6)   |      |        |               |        |
| - | AK3.01 | Manual and a                                 | uto bus transfer                                                                               |                 | 3.3  | 3.5    | 3.3           | 3.5    |
|   | AK3.02 | Selective trip                               | ping                                                                                           |                 | 2.9  | 3.1    | 2.9           | 3.1    |
|   | AK3.03 | Load sheddin                                 | g                                                                                              |                 | 3.5  | 3.6    | 3.5           | 3.6    |
|   | AK3.04 | Ground isolat                                | lion                                                                                           |                 | 3.0  | 3.2    | 3.0           | 3.2    |
|   | AK3.05 | Reactor SCR.                                 | AM                                                                                             |                 | 3.7  | 3.7    | 3.7           | 3.7    |
|   | AK3.06 | Containment                                  | isolation                                                                                      |                 | 3.7  | 3.7    | 3.7           | 3.7    |
|   | AK3.07 | Initiation of is                             | olation condenser: Plant-Specific                                                              |                 | 3,8* | 4.0*   | 3.8           | 4.0    |
|   | A1     | Ability to oper<br>apply to PART<br>POWER:   | rate and/or monitor the following as they<br>FIAL OR COMPLETE LOSS OF A.C.                     | (41.7 / 45.6)   |      |        |               |        |
|   | AA1.01 | A.C. electrica                               | al distribution system                                                                         |                 | 3.7  | 3.8    | 3.7           | 3.8    |
|   | AA1.02 | Emergency g                                  | enerators                                                                                      |                 | 4.2* | 4.3*   | 4.2           | 4.3    |
|   | AA1.03 | Systems nece                                 | essary to assure safe plant shutdown                                                           |                 | 4.4* | 4.4*   | 4.4           | 4.4    |
|   | AA1.04 | D.C. electrica                               | al distribution system                                                                         |                 | 3.6  | 3.7    | 3.6           | 3.7    |
|   |        |                                              | ✓                                                                                              |                 |      |        |               |        |

|        | Facility: CPS                                       |                                                                            |                              |      | Printe | :d: 08/1    | 1/2006 |
|--------|-----------------------------------------------------|----------------------------------------------------------------------------|------------------------------|------|--------|-------------|--------|
|        | System Number:                                      | 295003                                                                     |                              |      |        |             |        |
|        | System Name: Partial or Complete Loss of A.C. Power |                                                                            | •                            | NRC  | lmp    | Facility Im |        |
|        |                                                     |                                                                            | CFR                          | RO   | SRO    | RO          | S).    |
| A2     | Ability to dete<br>they apply to F<br>POWER:        | rmine and/or interpret the following as<br>PARTIAL OR COMPLETE LOSS OF A.C | (41.10 / 43.5 / 45.13)<br>C. |      |        |             |        |
| AA2.01 | Cause of parti                                      | al or complete loss of A.C. power                                          |                              | 3.4  | 3.7    | 3.4         | 3.7    |
| AA2.02 | Reactor powe                                        | r, pressure, and level                                                     |                              | 4.2* | 4.3*   | 4.2         | 4.3    |
| AA2.03 | Battery status                                      | : Plant-Specific                                                           |                              | 3.2  | 3.5    | 3.2         | 3.5    |
| AA2.04 | System lineur                                       | DS                                                                         |                              | 3.5  | 3.7    | 3.5         | 3.7    |
| AA2.05 | Whether a par<br>occurred                           | tial or complete loss of A.C. power has                                    |                              | 3.9* | 4.2*   | 3.9         | 4.2    |

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|                       | Facility: CPS                                  |                                                                           |                        |     | Printe | ed: 08/1 | 1/2006 |
|-----------------------|------------------------------------------------|---------------------------------------------------------------------------|------------------------|-----|--------|----------|--------|
|                       | <u>System Number:</u>                          | 295004                                                                    |                        |     |        |          |        |
|                       | System Name                                    | Partial or Complete Loss of D.C. Power                                    |                        | NRC | Imp    | Facili   | tv Imn |
| ~                     | Bystein Stante.                                |                                                                           | CFR                    | RO  | SRO    | RO       | SRO    |
| KI                    | Knowledge of th                                | be operational implications of the                                        | (41.8 to 41.10)        |     |        |          |        |
|                       | following conce<br>COMPLETE L                  | pts as they apply to PARTIAL OR<br>OSS OF D.C. POWER:                     |                        |     |        |          |        |
| AK1.01                | *Automatic loa                                 | d shedding: Plant Specific                                                |                        | 2.9 | 3.2    | 2.9      | 3.2    |
| AK1.02                | Redundant D.C                                  | C. power supplies: Plant-Specific                                         |                        | 3.2 | 3.4    | 3.2      | 3.4    |
| AK1.03                | Electrical bus of                              | livisional separation                                                     |                        | 2.9 | 2.9    | 2.9      | 2.9    |
| AK1.04                | Effect of batter                               | y discharge rate on capacity                                              |                        | 2.8 | 2.9    | 2.8      | 2.9    |
| AK1.05                | Loss of breake                                 | r protection                                                              |                        | 3.3 | 3.4    | 3.3      | 3.4    |
| AK1.06                | Prevention of i<br>restoration of I            | nadvertent system(s) actuation upon<br>D.C. power                         |                        | 3.3 | 3.6    | 3.3      | 3.6    |
| К2                    | Knowledge of the                               | he interrelations between PARTIAL OR                                      | (41.7, 45.8)           |     |        |          |        |
| AK2 01                | Battery charge                                 | r                                                                         |                        | 31  | 31     | 31       | 31     |
| AK2.01                | Datteries                                      | 1                                                                         |                        | 3.1 | 3.1    | 3.1      | 31     |
| AK2.02                | D C bus loads                                  |                                                                           |                        | 33  | 33     | 33       | 33     |
| К3                    | Knowledge of the                               | he reasons for the following responses as                                 | (41.5 / 45.6)          |     |        |          |        |
|                       | they apply to P                                | ARTIAL OR COMPLETE LOSS OF D.C.                                           |                        |     |        |          |        |
| 11/2 01               | POWER:                                         |                                                                           |                        | 24  | 2.1    | 24       | 2 1    |
| K3.01                 | TLoad sheddin                                  | g: Plant-Specific                                                         |                        | 2.0 | 2.1    | 2.0      | 3.1    |
| $-\frac{3.02}{12202}$ | Ground Isolan                                  | on/laun determination                                                     |                        | 2.9 | 2.5    | 2.9      | 2.5    |
| AK3.03                | Reactor SURA                                   | M: Plant-Specific                                                         |                        | 5.1 | 3.5    | 5,1      | 3.5    |
| A1                    | Ability to opera<br>apply to PART<br>POWER:    | te and/or monitor the following as they<br>IAL OR COMPLETE LOSS OF D.C.   | (41.7 / 45.6)          |     |        |          |        |
| AA1.01                | D.C. electrical                                | distribution systems                                                      |                        | 3.3 | 3.4    | 3.3      | 3.4    |
| AA1.02                | Systems neces                                  | sary to assure safe plant shutdown                                        |                        | 3.8 | 4.1    | 3.8      | 4.1    |
| AA1.03                | A.C. electrical                                | distribution                                                              |                        | 3.4 | 3.6    | 3.4      | 3.6    |
| A2                    | Ability to deter<br>they apply to P,<br>POWER: | mine and/or interpret the following as<br>ARTIAL OR COMPLETE LOSS OF D.C. | (41.10 / 43.5 / 45.13) |     |        |          |        |
| AA2.01                | Cause of partia                                | al or complete loss of D.C. power                                         |                        | 3.2 | 3.6    | 3.2      | 3.6    |
| AA2.02                | Extent of parti                                | al or complete loss of D.C. power                                         |                        | 3.5 | 3.9    | 3.5      | 3.9    |
| AA2.03                | Battery voltage                                | e · ·                                                                     |                        | 2.8 | 2.9    | 2.8      | 2.9    |
| AA2.04                | System lineup                                  | S                                                                         |                        | 3.2 | 3.3    | 3.2      | 3.3    |
|                       | <b>,</b>                                       |                                                                           |                        |     |        |          |        |

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|               | <u>System Number:</u>                          | 295005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |      |      |        |         |
|---------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|--------|---------|
|               | System Name                                    | Main Turbine Generator Trip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | NRC  | Imp  | Facili | ity Imp |
| $\overline{}$ | System Humer                                   | The second | CFR             | RO   | SRO  | RO     | SRO     |
| KI            | Knowledge of (<br>following conce<br>GENERATOR | the operational implications of the<br>epts as they apply to MAIN TURBINE<br>TRIP:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (41.8 to 41.10) |      |      |        |         |
| AK1.01        | Pressure effect                                | ts on reactor power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 4.0  | 4.1  | 4.0    | 4.1     |
| AK1.02        | <sup>†</sup> Core thermal                      | l limit considerations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 3.2  | 3.6  | 3.2    | 3.6     |
| AK1.03        | Pressure effec                                 | ts on reactor level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 3.5  | 3.7  | 3.5    | 3.7     |
| К2            | Knowledge of (<br>TURBINE GE                   | the interrelations between MAIN<br>NERATOR TRIP and the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (41.7, 45.8)    |      |      |        |         |
| AK2.01        | RPS                                            | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 3.8  | 3.9  | 3.8    | 3.9     |
| AK2.02        | Feedwater ten                                  | nperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 2.9  | 3.0  | 2.9    | 3.0     |
| AK2.03        | Recirculation                                  | system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 3.2  | 3.3  | 3.2    | 3.3     |
| AK2.04        | Main generate                                  | or protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 3.3  | 3.3  | 3.3    | 3.3     |
| AK2.05        | Extraction ste                                 | am system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 2.6  | 2.7  | 2.6    | 2.7     |
| AK2.06        | Seal steam ev                                  | aporator: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 1.9* | 1.9* | 1.9    | 1.9     |
| AK2.07        | Reactor press                                  | ure control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | 3.6  | 3.7  | 3.6    | 3.7     |
| AK2.08        | A.C. electrica                                 | l distribution.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 3.2  | 3.3  | 3.2    | 3.3     |
| AK2.09        | Feedwater-HP                                   | <del>CI: BWR-2</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | 4.0  | 4.3  | 4.0    | 4.3     |
| К3            | Knowledge of t<br>they apply to N              | the reasons for the following responses as<br>AAIN TURBINE GENERATOR TRIP:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (41.5 / 45.6)   |      |      |        |         |
| K3.01         | Reactor scram                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 3.8  | 3.8  | 3.8    | 3.8     |
| AK3.02        | Recirculation                                  | pump downshift/trip: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 3.4  | 3.5  | 3.4    | 3.5     |
| AK3.03        | Feedwater ten                                  | nperature decrease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | 2.8  | 3.0  | 2.8    | 3.0     |
| AK3.04        | Main generate                                  | or trip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | 3.2  | 3.2  | 3.2    | 3.2     |
| AK3.05        | Extraction ste                                 | am/moisture separator isolations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 2.5  | 2.6  | 2.5    | 2.6     |
| AK3.06        | Realignment                                    | of electrical distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | 3.3  | 3.3  | 3.3    | 3.3     |
| AK3.07        | Bypass valve                                   | operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 3.8  | 3.8  | 3.8    | 3.8     |
| AK3.08        | Feedwater-HP                                   | CI actuation: BWR-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 4.0  | 4.3  | 4.0    | 4.3     |
| A1            | Ability to oper<br>apply to MAIN               | ate and/or monitor the following as they<br>N TURBINE GENERATOR TRIP:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (41.7 / 45.6)   |      |      |        |         |
| AA1.01        | Recirculation                                  | system: Plant-Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 3.1  | 3.3  | 3.1    | 3.3     |
| AA1.02        | RPS                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | 3,6  | 3.6  | 3.6    | 3.6     |
| AA1.03        | Reactor manu                                   | al control/rod control and information system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 2.7  | 2.8  | 2.7    | 2.8     |
| AA1.04        | Main generate                                  | or controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | 2.7  | 2.8  | 2.7    | 2.8     |
| AA1.05        | Reactor/turbin                                 | ne pressure regulating system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 3.6  | 3.6  | 3.6    | 3.6     |
| AA1.06        | Condenser va                                   | cuum breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | 2.4  | 2.6  | 2.4    | 2.6     |
| AA1.07        | A.C. electrica                                 | l distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | 3.3  | 3.3  | 3.3    | 3.3     |

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|---------------|------------------------------------------|-------------------------------------------------------------------------|------------------------|--------|----------|---------------------|-----|
|               | <u>System Number:</u>                    | 295005                                                                  |                        |        |          |                     |     |
|               | System Name: Main Turbine Generator Trip |                                                                         |                        | NRC    | Imp      | <u>Facility l</u> r |     |
|               |                                          |                                                                         | CFR                    | RO     | SRO      | RO                  | 5.  |
| A2            | Ability to dete<br>they apply to I       | rmine and/or interpret the following as<br>MAIN TURBINE GENERATOR TRIP: | (41.10 / 43.5 / 45.13) |        |          |                     |     |
| AA2.01        | Turbine speed                            | 3                                                                       |                        | 2.6    | 2.7      | 2.6                 | 2.7 |
| AA2.02        | Turbine vibra                            | tion                                                                    |                        | 2.4    | 2.7      | 2.4                 | 2.7 |
| AA2.03        | Turbine valve                            | e position                                                              |                        | 3.1    | 3.1      | 3.1                 | 3.1 |
| AA2.04        | Reactor press                            | ure                                                                     |                        | 3.7    | 3.8      | 3.7                 | 3.8 |
| AA2.05        | Reactor powe                             | r                                                                       |                        | 3.8    | 3.9      | 3.8                 | 3.9 |
| AA2.06        | Feedwater ter                            | nperature                                                               |                        | 2.6    | 2.7      | 2.6                 | 2.7 |
| AA2.07        | Reactor water                            | level                                                                   |                        | 3.5    | 3.6      | 3.5                 | 3.6 |
| AA2.08        | Electrical dist                          | ribution status                                                         |                        | 3.2    | 3.3      | 3.2                 | 3.3 |

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|------------------|-------------------------------------|--------------------------------------------------|------------------------|------|-------------|---------------|------------|
|                  | <u>System Number:</u>               | 295006                                           |                        |      |             |               |            |
|                  | System Name:                        | SCRAM                                            |                        | NRC  | Imp         | <u>Facili</u> | ty Imp     |
| ~ <u>~</u>       |                                     |                                                  | CFR                    | RO   | SRO         | RO            | SRO        |
| K1               | Knowledge of t                      | he operational implications of the               | (41.8 to 41,10)        |      |             |               |            |
| AK1 01           | Decay heat ge                       | neration and removal                             |                        | 3.7  | 3.9         | 3.7           | 3.9        |
| AK1 02           | Shutdown mar                        | rgin                                             |                        | 3.4  | 3.7         | 3.4           | 3.7        |
| AK1.03           | Reactivity con                      | trol                                             |                        | 3.7  | 4.0         | 3.7           | 4.0        |
| К2               | Knowledge of t                      | he interrelations between SCRAM and the          | e (41.7, 45.8)         |      |             |               |            |
| AV2 01           | DDC                                 |                                                  |                        | 13*  | 1 1*        | 43            | 4.4        |
| AK2.01           | RFS<br>Bonoton vioton               | loval control overcom                            |                        | 3.9  | 38          | 3.8           |            |
| AK2.02           | CDD hardward                        |                                                  |                        | 2.0  | 2.0         | 2.0           | 2.0        |
| AK2.03           | Turbing trip la                     | c system                                         |                        | 3.6  | 3.0         | 3.6           | 3.0        |
| AK2.04           | CDD weshewi                         | ogic: Plant-Specific                             |                        | 2.1  | 2.2         | 2.1           | 2.7        |
| AN2.03           | CKD mechani<br>Reactor rouse        |                                                  |                        | ر a  | 2.J<br>1 3* | 3.1<br>4.2    | J.J<br>4 3 |
| AK2.00<br>AK2.07 | Reactor pressu                      | ire control                                      |                        | 4.0  | 4.1         | 4.0           | 4.1        |
|                  |                                     |                                                  |                        |      |             |               |            |
| К3               | Knowledge of t<br>they apply to S   | he reasons for the following responses as CRAM:  | (41.5 / 45.6)          |      |             |               |            |
| AK3.01           | Reactor water                       | level response                                   |                        | 3.8  | 3.9         | 3.8           | 3.9        |
| AK3.02           | Reactor power                       | r response                                       |                        | 4.1* | 4.2*        | 4.1           | 4.2        |
| `K3.03           | Reactor pressu                      | ire response                                     |                        | 3.8  | 3.9*        | 3.8           | 3.9        |
| <b></b> K3.04    | Reactor water                       | level setpoint setdown: Plant-Specific           |                        | 3.1  | 3.3         | 3.1           | 3.3        |
| AK3.05           | Direct turbine                      | generator trip: Plant-Specific                   |                        | 3.8  | 4.0         | 3.8           | 4.0        |
| AK3.06           | Recirculation                       | pump speed reduction: Plant-Specific             |                        | 3.2  | 3.3         | 3.2           | 3.3        |
| A1               | Ability to opera<br>apply to SCRA   | ate and/or monitor the following as they<br>M:   | (41.7 / 45.6)          |      |             |               |            |
| AA1.01           | RPS                                 |                                                  |                        | 4.2* | 4.2*        | 4.2           | 4.2        |
| AA1.02           | Reactor water                       | level control system                             |                        | 3.9  | 3.8         | 3.9           | 3.8        |
| AA1.03           | Reactor/turbin                      | e pressure regulating system                     |                        | 3.7  | 3.7         | 3.7           | 3.7        |
| AA1.04           | Recirculation                       | system                                           |                        | 3.1  | 3.2         | 3.1           | 3.2        |
| AA1.05           | Neutron moni                        | toring system                                    |                        | 4.2* | 4.2*        | 4.2           | 4.2        |
| AA1.06           | CRD hydrauli                        | c system                                         |                        | 3.5  | 3.6         | 3.5           | 3.6        |
| AA1.07           | Control rod po                      | osition                                          |                        | 4.1  | 4.1         | 4.1           | 4.1        |
| A2               | Ability to deter<br>they apply to S | rmine and/or interpret the following as<br>CRAM: | (41.10 / 43.5 / 45.13) |      |             |               |            |
| AA2.01           | Reactor power                       | r                                                |                        | 4.5* | 4.6*        | 4.5           | 4.6        |
| AA2.02           | Control rod po                      | osition                                          |                        | 4.3* | 4.4*        | 4.3           | 4.4        |
| AA2.03           | Reactor water                       | level                                            |                        | 4.0  | 4.2*        | 4.0           | 4.2        |
| AA2.04           | Reactor pressi                      | ure                                              |                        | 4.1  | 4.1*        | 4.1           | 4.1        |
| AA2.05           | Whether a rea                       | ctor SCRAM has occurred                          |                        | 4.6* | 4.6*        | 4.6           | 4.6        |
| AA2.06           | Cause of react                      | tor SCRAM                                        |                        | 3.5  | 3.8         | 3.5           | 3.8        |

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|                    |                                                                                                                |                        | NDC                   | <b>X</b>    | T2 212             |            |
|--------------------|----------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-------------|--------------------|------------|
| ~ ~                | System Name: High Reactor Pressure                                                                             | CFR                    | RO<br>RO              | SRO         | <u>racun</u><br>RO | sro        |
| <u> </u>           | the second s | (41 9 45 41 10)        |                       |             |                    |            |
| KI                 | Knowledge of the operational implications of the following concepts as they apply to HIGH REACTOR              | (41.8 10 41.10)        |                       |             |                    |            |
|                    | PRESSURE:                                                                                                      |                        |                       |             |                    |            |
| AK1.01             | Pump shutoff head                                                                                              |                        | 2.9                   | 3.2         | 2.9                | 3.2        |
| AK1.02             | Decay heat generation                                                                                          |                        | 3.1                   | 3.4         | 3.1                | 3.4        |
| AK1.03             | Pressure effects on reactor power                                                                              |                        | 3.8                   | 3.9         | 3.8                | 3.9        |
| AK1.04             | Turbine load                                                                                                   |                        | 2.7                   | 2.8         | 2.7                | 2.8        |
| К2                 | Knowledge of the interrelations between HIGH                                                                   | (41.7, 45.8)           |                       |             |                    |            |
|                    | <b>REACTOR PRESSURE and the following:</b>                                                                     |                        |                       |             | 2.6                | 2.7        |
| AK2.01             | Reactor/turbine pressure regulating system                                                                     |                        | 3.5                   | 3./<br>2.P  | 3.5                | 3.1        |
| AK2.02             | Reactor power                                                                                                  |                        | 3.8                   | 3.8         | 3.8<br>2.1         | 3.8        |
| AK2.03             | KHR/LPCI: Plant-Specific                                                                                       |                        | 3.1                   | 3.2         | 3.1                | 3.2        |
| AK2.04             | LPUS<br>Shutdown cooling: Plant-Specific                                                                       |                        | 2.9                   | 3.1         | 2.9                | 3.1        |
| AK2.05<br>AK2.06   | PCIS/NSSSS: Plant-Specific                                                                                     |                        | 3.5                   | 3.7         | 3.5                | 3.7        |
| К3                 | Knowledge of the reasons for the following responses as they apply to HIGH REACTOR PRESSURE:                   | (41.5 / 45.6)          |                       |             |                    |            |
| AK3.01             | Isolation condenser operation: Plant-Specific                                                                  |                        | 4.0                   | 4.2         | 4.0                | 4.2        |
| <sup>-</sup> K3.02 | HPC1 operation: Plant-Specific                                                                                 |                        | 3.7                   | 3.8*        | 3.7                | 3.8        |
| 3.03) ن            | RCIC operation: Plant-Specific                                                                                 |                        | 3.4                   | 3.5         | 3.4                | 3.5        |
| AK3.04             | Safety/relief valve operation: Plant-Specific                                                                  |                        | 4.0                   | 4.1*        | 4.0                | 4.1        |
| AK3.05             | Low pressure system isolation                                                                                  |                        | 3.0                   | 3.2         | 3.0                | 3.2        |
| AK3.06             | Reactor/turbine pressure regulating system operation                                                           |                        | 3.7                   | 3.8         | 3.7                | 3.8        |
| Al                 | Ability to operate and/or monitor the following as they apply to HIGH REACTOR PRESSURE:                        | (41.7 / 45.6)          |                       |             |                    |            |
| AA1.01             | Isolation condenser: Plant Specific                                                                            |                        | 4.0                   | 4.2         | 4.0                | 4.2        |
| AA1.02             | HPC1: Plant-Specific                                                                                           |                        | 3.5                   | 3.7*        | 3.5                | 3.7        |
| AA1.03             | RCIC: Plant-Specific                                                                                           |                        | 3.4                   | 3.D<br>4.1* | 3.4                | 3.0<br>1 1 |
| AA1.04             | Safety/relief valve operation: Plant-Specific                                                                  |                        | 3. <del>9</del><br>27 | 4.1         | 3.9                | 4.1        |
| AA1.05             | Reactor/turbine pressure regulating system                                                                     |                        | 5.7                   | 5.0         | 5.7                | 5.0        |
| A2                 | Ability to determine and/or interpret the following as they early to HICH REACTOR PRESSURE:                    | (41.10 / 43.5 / 45.13) |                       |             |                    |            |
| AA2 01             | Reactor pressure                                                                                               |                        | 4.1*                  | 4.1*        | 4.1                | 4.1        |
| AA2.02             | Reactor power                                                                                                  |                        | 4.1*                  | 4.1*        | 4.1                | 4.1        |
| AA2.03             | Reactor water level                                                                                            |                        | 3.7                   | 3.7         | 3.7                | 3.7        |
|                    |                                                                                                                |                        |                       |             |                    |            |

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|          | Facility: CPS                                           |                 |      | Printe      | d: 08/1    | 1/2006     |
|----------|---------------------------------------------------------|-----------------|------|-------------|------------|------------|
|          | System Number: 295008                                   |                 |      |             |            |            |
|          | Suntan Namas High Departon Water Loval                  |                 | NDC  | Imn         | Facili     | tu Imn     |
|          | System Name: High Reactor Water Level                   | CFR             | RO   | SRO         | RO         | <u>sro</u> |
|          |                                                         |                 |      |             |            |            |
| K1       | Knowledge of the operational implications of the        | (41.8 to 41.10) |      |             |            |            |
|          | following concepts as they apply to HIGH REACTOR        |                 |      |             |            |            |
|          | WATER LEVEL:                                            |                 | 2.0  | 2.2         | 2.0        | 2 2        |
| AK1.01   | Moisture carryover                                      |                 | 3.0  | 3.2         | 3.0        | 3.2        |
| AK1.02   | Component erosion/damage                                |                 | 2.8  | 2.8         | 2.8        | 2.8        |
| AK1.03   | Feed flow/steam flow mismatch                           |                 | 3.2  | 3.Z         | 3.2        | 3.2        |
| AK1.04   | Containment integrity: Alis-Chalmers                    |                 | 4.0  | 4.3*        | 4.0        | 4.3        |
| К2       | Knowledge of the interrelations between HIGH            | (41.7, 45.8)    |      |             |            |            |
|          | <b>REACTOR WATER LEVEL</b> and the following:           |                 |      |             |            |            |
| AK2.01   | RPS: Plant-Specific                                     |                 | 3.7  | 3.8         | 3.7        | 3.8        |
| AK2.02   | Reactor feedwater system                                |                 | 3.6  | 3.8         | 3.6        | 3.8        |
| AK2.03   | Reactor water level control                             |                 | 3.6  | 3.7         | 3.6        | 3.7        |
| AK2.04   | PCIS/NSSSS: Plant-Specific                              |                 | 3.1  | 3.3         | 3.1        | 3.3        |
| AK2.05   | HPC1: Plant-Specific                                    |                 | 3.8  | 3.9         | 3.8        | 3.9        |
| AK2.06   | RCIC: Plant-Specific                                    |                 | 3.4  | 3.6         | 3.4        | 3.6        |
| AK2.07   | HPCS: Plant-Specific                                    |                 | 2.9  | 3.0         | 2.9        | 3.0        |
| AK2.08   | Main turbine: Plant-Specific                            |                 | 3.4  | 3.5         | 3.4        | 3.5        |
| AK2.09   | Reactor water cleanup system (ability to drain):        |                 | 3.1  | 3.1         | 3.1        | 3.1        |
|          | Plant-Specific                                          |                 |      |             |            |            |
| AK2.10   | RHR (ability to drain): Plant-Specific                  |                 | 2.7  | 2.8         | 2.7        | 2.8        |
| K2.11    | Main steam                                              |                 | 3.1  | 3.3         | 3.1        | 3.3        |
| $\smile$ |                                                         |                 |      |             |            |            |
| К3       | Knowledge of the reasons for the following responses as | (41.5 / 45.6)   |      |             |            |            |
|          | they apply to HIGH REACTOR WATER LEVEL:                 |                 | 2.4  | 25          | 2.4        | 25         |
| AK3.01   | Main turbine trip                                       |                 | 3.4  | 3.3<br>2.0* | 3.4<br>2.4 | 3.5        |
| AK3.02   | Reactor SCRAM: Plant-Specific                           |                 | 3.0* | 3.9*<br>2 1 | 3.0        | 3.9        |
| AK3.03   | PCIS/NSSSS initiation: Plant-Specific                   |                 | 2.9  | J.1<br>2 E  | ∠.y<br>2.2 | 3.1        |
| AK3.04   | Reactor feed pump trip: Plant-Specific                  |                 | 5.5  | 3.3         | 5.5        | 5.5        |
| AK3.05   | HPCI turbine trip: Plant-Specific                       |                 | 3.5  | 0.C<br>2.E  | 3.5        | 3.0<br>2.5 |
| AK3.06   | RCIC turbine trip: Plant-Specific                       |                 | 5.4  | 3.3         | 3.4<br>2.2 | 3.3        |
| AK3.07   | HPCS isolation: Plant-Specific                          |                 | 3.2  | 3.3         | 3.4        | 3.3        |
| AK3.08   | RCIC steam supply valve closure: Plant-Specific         |                 | 3.4  | 5.5         | 3.4        | 3.5        |
| AK3.09   | HPCS injection valve closure: Plant-Specific            |                 | 3.3  | 3.4         | 3.3        | 3.4        |

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|        | System Number: 295008                                                                          |                        |     |        |          |        |
|        | System Name: High Reactor Water Level                                                          |                        | NRC | lmp    | Facili   | ty lr  |
|        |                                                                                                | CFR                    | RO  | SRO    | RO       | 2.     |
| A1     | Ability to operate and/or monitor the following as they apply to HIGH REACTOR WATER LEVEL:     | (41.7 / 45.6)          |     |        |          |        |
| AA1.01 | Reactor water level control: Plant-Specific                                                    |                        | 3.7 | 3.7    | 3.7      | 3.7    |
| AA1.02 | Reactor water cleanup (ability to drain): Plant-Specific                                       |                        | 3.3 | 3.3    | 3.3      | 3.3    |
| AA1.03 | Main steam system: Plant-Specific                                                              |                        | 3.1 | 3.1    | 3.1      | 3.1    |
| AA1.04 | HPCI: Plant Specific                                                                           |                        | 3.5 | 3.5    | 3.5      | 3.5    |
| AA1.05 | RCIC: Plant-Specific                                                                           |                        | 3.3 | 3.3    | 3.3      | 3.3    |
| AA1.06 | HPCS: Plant-Specific                                                                           |                        | 2.8 | 2.8    | 2.8      | 2.8    |
| AA1.07 | Main turbine: Plant-Specific                                                                   |                        | 3.4 | 3.4    | 3.4      | 3.4    |
| AA1.08 | Feedwater system                                                                               |                        | 3.5 | 3.5    | 3.5      | 3.5    |
| AA1.09 | Ability to drain: Plant-Specific                                                               |                        | 3.3 | 3.3    | 3.3      | 3.3    |
| A2     | Ability to determine and/or interpret the following as they apply to HIGH REACTOR WATER LEVEL: | (41.10 / 43.5 / 45.13) |     |        |          |        |
| AA2.01 | Reactor water level                                                                            |                        | 3.9 | 3.9    | 3.9      | 3.9    |
| AA2.02 | Steam flow/feedflow mismatch                                                                   |                        | 3.4 | 3.4    | 3.4      | 3.4    |
| AA2.03 | Reactor water cleanup blowdown flow                                                            |                        | 2.9 | 3.0    | 2.9      | 3.0    |
| AA2.04 | Heatup rate: Plant-Specific                                                                    |                        | 3.1 | 3.3    | 3.1      | 3.3    |
| AA2.05 | Swell                                                                                          |                        | 2.9 | 3.1    | 2.9      | 3.1    |

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|    |               | System Number:                                  | 295009                                                                          |                        |     |            |               |        |
|----|---------------|-------------------------------------------------|---------------------------------------------------------------------------------|------------------------|-----|------------|---------------|--------|
|    |               | <u>System Name:</u>                             | Low Reactor Water Level                                                         |                        | NRC | <u>Imp</u> | <u>Facili</u> | ty Imp |
| ~  |               |                                                 |                                                                                 | CFR                    | RO  | SRO        | RO            | SRO    |
| K  | 1             | Knowledge of 1<br>following conce<br>WATER LEVI | the operational implications of the<br>epts as they apply to LOW REACTOR<br>FL: | (41.8 to 41.10)        |     |            |               |        |
| AF | K1.01         | Steam carryur                                   | nder                                                                            |                        | 2.7 | 2.9        | 2.7           | 2.9    |
| Al | K1.02         | Recirculation<br>Plant-Specific                 | pump net positive suction head:                                                 |                        | 3.0 | 3.1        | 3.0           | 3.1    |
| Ał | K1.03         | Jet pump net j                                  | positive suction head: Not-BWR-1&2                                              |                        | 2.7 | 2.7        | 2.7           | 2.7    |
| Ał | K1.04         | Jet pump effic                                  | ciency: Not-BWR-1&2                                                             |                        | 2.4 | 2.4        | 2.4           | 2.4    |
| Ał | K1.05         | Natural circul                                  | ation                                                                           |                        | 3.3 | 3.4        | 3.3           | 3.4    |
| K2 | 2             | Knowledge of t<br>REACTOR W                     | the interrelations between LOW<br>ATER LEVEL and the following:                 | (41.7, 45.8)           |     |            |               |        |
| A۴ | K2.01         | Reactor water                                   | level indication                                                                |                        | 3.9 | 4.0        | 3.9           | 4.0    |
| Ał | <b>K</b> 2.02 | Reactor water                                   | level control                                                                   |                        | 3.9 | 3.9        | 3.9           | 3.9    |
| Ał | K2.03         | Recirculation                                   | system                                                                          |                        | 3.1 | 3.2        | 3.1           | 3.2    |
| Ał | K2.04         | Reactor water                                   | cleanup                                                                         |                        | 2.6 | 2.6        | 2.6           | 2.6    |
| K  | 3             | Knowledge of t<br>they apply to L               | the reasons for the following responses as<br>.OW REACTOR WATER LEVEL:          | (41.5 / 45.6)          |     |            |               |        |
| Ał | K3.01         | Recirculation                                   | pump run back: Plant-Specific                                                   |                        | 3.2 | 3.3        | 3.2           | 3.3    |
| 41 | K3.02         | Reactor feedp                                   | ump runout flow control: Plant-Specific                                         |                        | 2.7 | 2.8        | 2.7           | 2.8    |
| Al | l             | Ability to oper<br>apply to LOW                 | ate and/or monitor the following as they<br>REACTOR WATER LEVEL:                | (41.7 / 45.6)          |     |            |               |        |
| AA | 41.01         | Reactor feedw                                   | vater                                                                           |                        | 3.9 | 3.9        | 3.9           | 3.9    |
| A  | A1.02         | Reactor water                                   | level control                                                                   |                        | 4.0 | 4.0        | 4.0           | 4.0    |
| A  | A1.03         | Recirculation                                   | system: Plant-Specific                                                          |                        | 3.0 | 3.1        | 3.0           | 3.1    |
| AA | A1.04         | Reactor water                                   | cleanup                                                                         |                        | 2.7 | 2.7        | 2.7           | 2.7    |
| AZ | 2             | Ability to deter<br>they apply to L             | rmine and/or interpret the following as<br>LOW REACTOR WATER LEVEL:             | (41.10 / 43.5 / 45.13) |     |            |               |        |
| AA | A2.01         | Reactor water                                   | level                                                                           |                        | 4.2 | 4.2        | 4.2           | 4.2    |
| AA | 42.02         | Steam flow/fe                                   | edflow mismatch                                                                 |                        | 3.6 | 3.7        | 3.6           | 3.7    |
| A  | A2.03         | Reactor water                                   | cleanup blowdown rate                                                           |                        | 2.9 | 2.9        | 2.9           | 2.9    |
|    |               |                                                 |                                                                                 |                        |     |            |               |        |

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|------------|-------------------------------------|---------------------------------------------------------------------|------------------------|------|--------|----------|--------|
|            | <u>System Number:</u>               | 295010                                                              |                        |      |        |          |        |
|            | System Name                         | High Drywell Pressure                                               |                        | NRC  | Imn    | Facili   | tv Imn |
|            | bystem runter                       |                                                                     | CFR                    | RO   | SRO    | RO       | SRO    |
| <b>K</b> 1 | Knowledge of t                      | the operational implications of the                                 | (41.8 to 41.10)        |      |        |          |        |
|            | following conce<br>PRESSURE:        | epts as they apply to HIGH DRYWELL                                  |                        |      |        |          |        |
| AK1.01     | Downcomer su                        | ibmergence: Mark-I&II                                               |                        | 3.0  | 3.4    | 3.0      | 3.4    |
| AK1.02     | Submergence                         | vent control: Mark-III                                              |                        | 2.8  | 3.1*   | 2.8      | 3.1    |
| AK1.03     | Temperature i                       | ncreases                                                            |                        | 3.2  | 3.4    | 3.2      | 3.4    |
| К2         | Knowledge of t<br>DRYWELL PI        | the interrelations between HIGH<br>RESSURE and the following:       | (41.7, 45.8)           |      |        |          |        |
| AK2.01     | Suppression p                       | ool level                                                           |                        | 3.2  | 3.3    | 3.2      | 3.3    |
| AK2.02     | Drywell/suppr                       | ession-chamber differential pressure: Mark-Id                       | <mark>&amp;H</mark>    | 3.3  | 3.5    | 3.3      | 3.5    |
| AK2.03     | Drywell/conta                       | inment differential pressure: Mark-III                              |                        | 3.0  | 3.1    | 3.0      | 3.1    |
| AK2.04     | Nitrogen make                       | up system: Plant-Specific                                           |                        | 2.6  | 2.8    | 2.6      | 2.8    |
| AK2.05     | Drywell cooli                       | ng and ventilation                                                  |                        | 3.7  | 3.8    | 3.7      | 3.8    |
| К3         | Knowledge of (<br>they apply to F   | the reasons for the following responses as<br>HGH DRYWELL PRESSURE: | (41.5 / 45.6)          |      |        |          |        |
| AK3.01     | Drywell venti                       | ng                                                                  |                        | 3.8  | 4.0*   | 3.8      | 4.0    |
| AK3.02     | Increased dry                       | well cooling                                                        |                        | 3.4  | 3.4    | 3.4      | 3.4    |
| AK3.03     | Radiation leve                      | el monitoring                                                       |                        | 3.2  | 3.5    | 3.2      | 3.5    |
| AK3.04     | Leak investiga                      | ation                                                               |                        | 3.5  | 3.8    | 3.5      | 3.8    |
| AK3.05     | Temperature 1                       | nonitoring                                                          |                        | 3.5  | 3.4    | 3.5      | 3.4    |
| AK3.06     | Termination of                      | fdrywell inerting: Plant-Specific                                   |                        | 2.4* | 2.8    | 2.4      | 2.8    |
| A1         | Ability to oper<br>apply to HIGH    | ate and/or monitor the following as they<br>  DRYWELL PRESSURE:     | (41.7 / 45.6)          |      |        |          |        |
| AA1.01     | Drywell venti                       | lation/cooling                                                      |                        | 3.4  | 3.5    | 3.4      | 3.5    |
| AA1.02     | Drywell floor                       | and equipment drain sumps                                           |                        | 3.6  | 3.6    | 3.6      | 3.6    |
| AA1.03     | Nitrogen make                       | up: Plant-Specific                                                  |                        | 2.6  | 2.6    | 2.6      | 2.6    |
| AA1.04     | Drywell samp                        | ling system                                                         |                        | 3.1  | 3.0    | 3.1      | 3.0    |
| AA1.05     | Drywell/supp                        | ression vent and purge                                              |                        | 3.1  | 3.4    | 3.1      | 3.4    |
| AA1.06     | Leakage detec                       | ction systems                                                       |                        | 3.3  | 3.5    | 3.3      | 3.5    |
| AA1.07     | Containment (                       | (drywell) atmosphere control                                        |                        | 3.2  | 3.4    | 3.2      | 3.4    |
| A2         | Ability to deter<br>they apply to F | rmine and/or interpret the following as<br>HGH DRYWELL PRESSURE:    | (41.10 / 43.5 / 45.13) |      |        |          |        |
| AA2.01     | <sup>†</sup> Leak rates             |                                                                     |                        | 3.4  | 3.8    | 3.4      | 3.8    |
| AA2.02     | Drywell press                       | sure                                                                |                        | 3.8  | 3.9    | 3.8      | 3.9    |
| AA2.03     | Drywell radia                       | tion levels                                                         |                        | 3.3  | 3.6    | 3.3      | 3.6    |
| AA2.04     | Drywell humic                       | lity: Plant-Specific                                                |                        | 2.8  | 3.0    | 2.8      | 3.0    |
| AA2.05     | Drywell air co                      | ooler drain flow: BWR-6                                             |                        | 3.3  | 3.3    | 3.3      | 3.3    |
| AA2.06     | Drywell temp                        | erature                                                             |                        | 3.6  | 3.6    | 3.6      | 3.6    |

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|------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------|------------------|-------------------|---------------------|----------------------|
|                  | System Number:                                       | 295011                                                                                                   |                        |                  |                   |                     |                      |
|                  | System Name:                                         | High Containment Temperature (Mark I<br>Containment Only)                                                | II<br>CFR              | <u>NRC</u><br>RO | <u>Imp</u><br>SRO | <u>Facili</u><br>RO | <u>ty Imp</u><br>SRO |
| K1               | Knowledge of the following conce CONTAINME CONTAINME | be operational implications of the<br>pts as they apply to HIGH<br>NT TEMPERATURE (MARK III<br>NT ONLY): | (41.8 to 41.10)        |                  | Sile              | No                  | Site                 |
| AK1.01           | Containment p                                        | ressure: Mark-III                                                                                        |                        | 4.0*             | 4.1*              | 4.0                 | 4.1                  |
| K2               | Knowledge of t<br>CONTAINME<br>CONTAINME             | he interrelations between HIGH<br>NT TEMPERATURE (MARK III<br>NT ONLY) and the following:                | (41.7, 45.8)           |                  |                   |                     |                      |
| AK2.01           | Containment v                                        | entilation/cooling: Mark-III                                                                             |                        | 3.7              | 4.0               | 3.7                 | 4.0                  |
| КЗ               | Knowledge of t<br>they apply to H<br>(MARK III CO    | he reasons for the following responses as<br>IGH CONTAINMENT TEMPERATURE<br>NTAINMENT ONLY):             | (41.5 / 45.6)          |                  |                   |                     |                      |
| AK3.01           | Increased cont                                       | ainment cooling: Mark-III                                                                                |                        | 3.6              | 3.9               | 3.6                 | 3.9                  |
| Al               | Ability to opera<br>apply to HIGH<br>(MARK III CO    | te and/or monitor the following as they<br>CONTAINMENT TEMPERATURE<br>NTAINMENT ONLY):                   | (41.7 / 45.6)          |                  |                   |                     |                      |
| AA1.01           | Containment v                                        | entilation/cooling system: Mark-III                                                                      |                        | 3.6              | 3.9               | 3.6                 | 3.9                  |
| A2               | Ability to deter<br>they apply to H<br>(MARK 111 CO  | mine and/or interpret the following as<br>IGH CONTAINMENT TEMPERATURE<br>NTAINMENT ONLY):                | (41.10 / 43.5 / 45.13) |                  |                   |                     |                      |
| AA2.01           | Containment to                                       | emperature: Mark-III                                                                                     |                        | 3.6              | 3.9               | 3.6                 | 3.9                  |
| AA2.02<br>AA2.03 | Containment p<br>Containment hu                      | ressure: Mark-III<br>midity: Mark-III                                                                    |                        | 4.0*<br>2.8      | 4.1*<br>3.2       | 4.0<br>2.8          | 4.1<br>3.2           |

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|        | System Number: 295012                                                                                                |                        |     |        |          |        |
|        | System Name: High Drywell Temperature                                                                                |                        | NRC | Imv    | Facili   | ty Imp |
|        |                                                                                                                      | CFR                    | RO  | SRO    | RO       | SRO    |
| К1     | Knowledge of the operational implications of the<br>following concepts as they apply to HIGH DRYWELL<br>TEMPERATURE: | (41.8 to 41.10)        |     |        |          |        |
| AK1.01 | Pressure/temperature relationship                                                                                    |                        | 3.3 | 3.5    | 3.3      | 3.5    |
| AK1.02 | Reactor power level control                                                                                          |                        | 3.1 | 3.2    | 3.1      | 3.2    |
| К2     | Knowledge of the interrelations between HIGH<br>DRYWELL TEMPERATURE and the following:                               | (41.7, 45.8)           |     |        |          |        |
| AK2.01 | Drywell ventilation                                                                                                  |                        | 3.4 | 3.5    | 3.4      | 3.5    |
| AK2.02 | Drywell cooling                                                                                                      |                        | 3.6 | 3.7    | 3.6      | 3.7    |
| К3     | Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL TEMPERATURE:                      | (41.5 / 45.6)          |     |        |          |        |
| AK3.01 | Increased drywell cooling                                                                                            |                        | 3.5 | 3.6    | 3.5      | 3.6    |
| A1     | Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE:                           | (41.7 / 45.6)          |     |        |          |        |
| AA1.01 | Drywell ventilation system                                                                                           |                        | 3.5 | 3.6    | 3.5      | 3.6    |
| AA1.02 | Drywell cooling system                                                                                               |                        | 3.8 | 3.8    | 3.8      | 3.8    |
| ´ A2   | Ability to determine and/or interpret the following as they apply to HIGH DRYWELL TEMPERATURE:                       | (41.10 / 43.5 / 45.13) |     |        |          |        |
| AA2.01 | Drywell temperature                                                                                                  |                        | 3.8 | 3.9    | 3.8      | 3.9    |
| AA2.02 | Drywell pressure                                                                                                     |                        | 3.9 | 4.1    | 3.9      | 4.1    |
| AA2.03 | Drywell humidity: Plant-Specific                                                                                     |                        | 2.8 | 3.1    | 2.8      | 3.1    |
|        |                                                                                                                      |                        |     |        |          |        |

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|------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|--------|---------------|--------|
|                  | System Number: 295013                                                                                                         |                        |     |        |               |        |
|                  | System Name: High Suppression Pool Temperature                                                                                |                        | NRC | Imp    | <u>Facili</u> | ty Imp |
|                  |                                                                                                                               | CFR                    | RO  | SRO    | RO            | SRO    |
| K1               | Knowledge of the operational implications of the<br>following concepts as they apply to HIGH<br>SUPPRESSION POOL TEMPERATURE: | (41.8 to 41.10)        |     |        |               |        |
| AK1.01           | Pool stratification                                                                                                           |                        | 2.5 | 2.6    | 2.5           | 2.6    |
| AK1.02           | Ambient temperature effects.                                                                                                  |                        | 2.4 | 2.5    | 2.4           | 2.5    |
| AK1.03           | Localized heating                                                                                                             |                        | 3.0 | 3.3    | 3.0           | 3.3    |
| AK1.04           | Complete condensation                                                                                                         |                        | 2.9 | 3.2    | 2.9           | 3.2    |
| К2               | Knowledge of the interrelations between HIGH<br>SUPPRESSION POOL TEMPERATURE and the<br>following:                            | (41.7, 45.8)           |     |        |               |        |
| AK2.01           | Suppression pool cooling                                                                                                      |                        | 3.6 | 3.7    | 3.6           | 3.7    |
| К3               | Knowledge of the reasons for the following responses as<br>they apply to HIGH SUPPRESSION POOL<br>TEMPERATURE:                | (41.5 / 45.6)          |     |        |               |        |
| AK3 01           | Suppression pool cooling operation                                                                                            |                        | 3.6 | 3.8    | 3.6           | 3.8    |
| AK3.02           | Limiting heat additions                                                                                                       |                        | 3.6 | 3.8    | 3.6           | 3.8    |
| A1               | Ability to operate and/or monitor the following as they apply to HIGH SUPPRESSION POOL                                        | (41.7 / 45.6)          |     |        |               |        |
| <b>A A 1 0</b> 1 | Suppression pool cooling                                                                                                      |                        | 3.9 | 3.9    | 3.9           | 3.9    |
| AA1.02           | Systems that add heat to the suppression pool                                                                                 |                        | 3.9 | 3.9    | 3.9           | 3.9    |
| A2               | Ability to determine and/or interpret the following as<br>they apply to HIGH SUPPRESSION POOL<br>TEMPERATURE:                 | (41.10 / 43.5 / 45.13) |     |        |               |        |
| AA2.01           | Suppression pool temperature                                                                                                  |                        | 3.8 | 4.0    | 3.8           | 4.0    |
| AA2.02           | Localized heating/stratification                                                                                              |                        | 3.2 | 3.5    | 3.2           | 3.5    |
|                  |                                                                                                                               |                        |     |        |               |        |

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|          | Facility: CPS                                                                                                      |                                       |      | Printe      | :d: 08/1      | 1/2006     |
|----------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|-------------|---------------|------------|
|          | System Number: 295014                                                                                              |                                       |      |             |               |            |
|          | System Name: Inadvertent Reactivity Add                                                                            | ition                                 | NRC  | lmp         | <u>Facili</u> | ty Imp     |
| <b>_</b> |                                                                                                                    | CFR                                   | RO   | SRO         | RO            | SRO        |
| K1       | Knowledge of the operational implications of<br>following concepts as they apply to INADVE<br>REACTIVITY ADDITION: | the (41.8 to 41.10)<br>RTENT          |      |             |               |            |
| AK1.01   | Prompt critical                                                                                                    |                                       | 3.7  | 3.8         | 3.7           | 3.8        |
| AK1.02   | Reactivity anomaly                                                                                                 |                                       | 3.3  | 3.7         | 3.3           | 3.7        |
| AK1.03   | Shutdown margin                                                                                                    |                                       | 3.7  | 4.0         | 3.7           | 4.0        |
| AK1.04   | PCIOMR: Plant-Specific                                                                                             |                                       | 3.0  | 3.4         | 3.0           | 3.4        |
| AK1.05   | <b>†</b> Fuel thermal limits                                                                                       |                                       | 3.7  | 4.2*        | 3.7           | 4.2        |
| AK1.06   | Abnormal reactivity additions.                                                                                     |                                       | 3.8  | 3.9         | 3.8           | 3.9        |
| К2       | Knowledge of the interrelations between<br>INADVERTENT REACTIVITY ADDITIO<br>following:                            | (41.7, 45.8)<br>N and the             |      |             |               |            |
| AK 2 01  | RPS                                                                                                                |                                       | 3.9  | 41          | 39            | 41         |
| AK2 02   | †Fuel thermal limits                                                                                               |                                       | 37   | 4.2*        | 37            | 42         |
| AK2.02   | Fuel temperature                                                                                                   |                                       | 33   | 34          | 33            | 34         |
| AK2.05   | Void concentration                                                                                                 |                                       | 3.5  | 2.7         | 3.5           | 33         |
| AK2.04   | Noutron monitoring system                                                                                          |                                       | 3.2  | 3.5<br>/ 1* | J.Z.<br>4 D   | J.J<br>/ 1 |
| AK2.05   | Neutron monitoring system                                                                                          |                                       | 4.0  | 4.1         | 4.0           | 4.1        |
| AK2.00   | Disector temperature                                                                                               |                                       | 2.4  | 3.5         | 2.4           | 3.5        |
| AK2.07   | Reactor power                                                                                                      |                                       | 3.9  | 3.9         | 3.9           | 3.9        |
| AK2.08   | KMCS: Plant-Specific                                                                                               | 10                                    | 3.4  | 3.5         | 3.4           | 3.5        |
| AK2.09   | Rod control and information system: Plant-Sj                                                                       | Decific                               | 3.4  | 3.0         | 3.4           | 3.0        |
| -AK2.10  | Safety limits                                                                                                      |                                       | 4.1  | 4.5*        | 4.1           | 4.5        |
| AK2.11   | Recirculation flow control                                                                                         |                                       | 3.6  | 3.7         | 3.6           | 3.7        |
| КЗ       | Knowledge of the reasons for the following r<br>they apply to INADVERTENT REACTIVIT<br>ADDITION:                   | esponses as (41.5 / 45.6)<br>Y        |      |             |               |            |
| AK3.01   | Reactor SCRAM                                                                                                      |                                       | 4.1* | 4.1         | 4.1           | 4.1        |
| AK3.02   | Control rod blocks                                                                                                 |                                       | 3.7  | 3.7         | 3.7           | 3.7        |
| A1       | Ability to operate and/or monitor the follow<br>apply to INADVERTENT REACTIVITY A                                  | ing as they (41.7 / 45.6)<br>DDITION: |      |             |               |            |
| AA1.01   | RPS                                                                                                                |                                       | 4.0  | 4.1*        | 4.0           | 4.1        |
| AA1.02   | Recirculation flow control system                                                                                  |                                       | 3.6  | 3.8         | 3.6           | 3.8        |
| AA1.03   | RMCS: Plant-Specific                                                                                               |                                       | 3.5  | 3.5         | 3.5           | 3.5        |
| AA1.04   | Rod control and information system: Plant-S                                                                        | pecific                               | 3.2  | 3.3         | 3.2           | 3.3        |
| AA1.05   | Neutron monitoring system                                                                                          |                                       | 3.9  | 3.9         | 3.9           | 3.9        |
| AA1.06   | Reactor/turbine pressure regulating system                                                                         |                                       | 3.3  | 3.4         | 3.3           | 3.4        |
| AA1.07   | Cold water injection                                                                                               |                                       | 4.0  | 4.1         | 4.0           | 4.1        |

|        | Facility: CPS                                      |                                                                 |                        |            | Printe     | ed: 08/1      | 1/2006      |
|--------|----------------------------------------------------|-----------------------------------------------------------------|------------------------|------------|------------|---------------|-------------|
|        | System Number:                                     | 295014                                                          |                        |            |            |               |             |
|        | <u>System Name:</u>                                | Inadvertent Reactivity Addition                                 |                        | <u>NRC</u> | lmp        | <u>Facili</u> | <u>ty I</u> |
|        |                                                    |                                                                 | CFR                    | RO         | SRO        | RO            | •           |
| A2     | Ability to detern<br>they apply to IN<br>ADDITION: | mine and/or interpret the following as<br>NADVERTENT REACTIVITY | (41.10 / 43.5 / 45.13) |            |            |               |             |
| AA2.01 | Reactor power                                      |                                                                 |                        | 4.1*       | 4.2*       | 4.1           | 4.2         |
| AA2.02 | Reactor period                                     |                                                                 |                        | 3.9        | <b>3.9</b> | 3.9           | 3.9         |
| AA2.03 | Cause of reacti                                    | vity addition                                                   |                        | 4.0        | 4.3        | 4.0           | 4.3         |
| AA2.04 | <sup>†</sup> Violation of f                        | uel thermal limits                                              |                        | 4.1        | 4.4        | 4.1           | 4.4         |
| AA2.05 | <b>†</b> Violation of s                            | afety limits                                                    |                        | 4.2*       | 4.6*       | 4.2           | 4.6         |

| Facility: CPS |                                             |                                                                      |                        |      | Printe | d: 08/1 | 1/2006 |
|---------------|---------------------------------------------|----------------------------------------------------------------------|------------------------|------|--------|---------|--------|
|               | System Number:                              | 295015                                                               |                        |      |        |         |        |
|               | System Name:                                | Incomplete SCRAM                                                     |                        | NRC  | Imp    | Facili  | ty Imp |
|               |                                             | -                                                                    | CFR                    | RO   | SRO    | RO      | SRO    |
| K1            | Knowledge of t<br>following conce<br>SCRAM: | he operational implications of the epits as they apply to INCOMPLETE | (41.8 to 41.10)        |      |        |         |        |
| AK1.01        | Shutdown mai                                | rgin                                                                 |                        | 3.6* | 3.9*   | 3.6     | 3.9    |
| AK1.02        | Cooldown effe                               | ects on reactor power                                                |                        | 3.9  | 4.1    | 3.9     | 4.1    |
| AK1.03        | Reactivity effe                             | ects                                                                 |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| AK1.04        | Reactor pressu                              | ire: Plant-Specific                                                  |                        | 3.8  | 3.8    | 3.8     | 3.8    |
| К2            | Knowledge of t<br>SCRAM and th              | he interrelations between INCOMPLETE<br>te following:                | (41.7, 45.8)           |      |        |         |        |
| AK2.01        | CRD hvdrauli                                | cs                                                                   |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| AK2.02        | RMCS: Plant-S                               | Specific                                                             |                        | 3.6  | 3.7    | 3.6     | 3.7    |
| AK2.03        | Rod control ar                              | nd information system: Plant-Specific                                |                        | 3.2  | 3.6    | 3.2     | 3.6    |
| AK2.04        | RPS                                         |                                                                      |                        | 4.0  | 4.1    | 4.0     | 4.1    |
| AK2.05        | Rod worth min                               | imizer: Plant-Specific                                               |                        | 2.6  | 2.8    | 2.6     | 2.8    |
| AK2.06        | RSCS: Plant-S                               | pecific                                                              |                        | 2.6  | 2.8    | 2.6     | 2.8    |
| AK2.07        | CRD mechani                                 | sm                                                                   |                        | 3.3  | 3.4    | 3.3     | 3.4    |
| AK2.08        | Neutron monit                               | toring system                                                        |                        | 3.6  | 3.7    | 3.6     | 3.7    |
| AK2.09        | RPIS                                        |                                                                      |                        | 3.5  | 3.6    | 3.5     | 3.6    |
| AK2.10        | SPDS/ERIS/C                                 | RIDS/GDS: Plant-Specific                                             |                        | 2.8  | 3.0    | 2.8     | 3.0    |
| AK2,11        | Instrument air                              |                                                                      |                        | 3.5  | 3.7    | 3.5     | 3.7    |
| КЗ            | Knowledge of t<br>they apply to II          | the reasons for the following responses as NCOMPLETE SCRAM:          | (41.5 / 45.6)          |      |        |         |        |
| AK3.01        | Bypassing rod                               | insertion blocks                                                     |                        | 3.4  | 3.7    | 3.4     | 3.7    |
| A1            | Ability to operative apply to INCO          | ate and/or monitor the following as they<br>MPLETE SCRAM:            | (41.7 / 45.6)          |      |        |         |        |
| AA1.01        | CRD hydrauli                                | cs                                                                   |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| AA1.02        | RPS                                         |                                                                      |                        | 4.0  | 4.2*   | 4.0     | 4.2    |
| AA1.03        | RMCS: Plant S                               | Specific                                                             |                        | 3.6  | 3.8    | 3.6     | 3.8    |
| AA1.04        | Rod control at                              | nd information system: Plant-Specific                                |                        | 3.4  | 3.7    | 3.4     | 3.7    |
| AA1.05        | Rod worth min                               | imizer: Plant-Specific                                               |                        | 2.5* | 2.8*   | 2.5     | 2.8    |
| AA1.06        | RSCS: Plant-S                               | pecific                                                              |                        | 2.7  | 2.9    | 2.7     | 2.9    |
| AA1.07        | Neutron moni                                | toring system                                                        |                        | 3.0  | 3.7    | 3.6     | 3.7    |
| AA1.08        | Process comp                                | uter/SPDS/ERIS/CRIDS/GDS: Plant-Specific                             |                        | 2.7  | 2.9    | 2.7     | 2.9    |
| A2            | Ability to deter<br>they apply to D         | rmine and/or interpret the following as NCOMPLETE SCRAM:             | (41.10 / 43.5 / 45.13) |      |        |         |        |
| AA2.01        | Reactor power                               | r                                                                    |                        | 4.1* | 4.3*   | 4.1     | 4.3    |
| AA2.02        | Control rod po                              | osition                                                              |                        | 4.1  | 4.2*   | 4.1     | 4.2    |

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System Number: 295016

**Facility:** 

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**Control Room Abandonment** System Name: NRC Imp **Facility Imp** CFR RO SRO RO SRO **K2** Knowledge of the interrelations between CONTROL (41.7, 45.8) **ROOM ABANDONMENT and the following:** 4.4\* 4.5\* 4.4 4.5 AK2.01 Remote shutdown panel: Plant-Specific 4.0\* 4.1\* 4.0 4.1 AK2.02 Local control stations: Plant-Specific Control room HVAC 2.9\* 3.1\* 2.9 3.1 AK2.03 **K**3 Knowledge of the reasons for the following responses as (41.5 / 45.6) they apply to CONTROL ROOM ABANDONMENT: Reactor SCRAM 4.1\* 4.2\* 4.1 4.2 AK3.01 3.7\* 3.8 AK3.02 3.8\* 3.7 Turbine trip 3.5 3.7\* 3.5 3.7 AK3.03 Disabling control room controls Ability to operate and/or monitor the following as they (41.7 / 45.6) A1 apply to CONTROL ROOM ABANDONMENT: 3.8 3.8 3.9 3.9 RPS AA1.01 2.9\* 3.1\* 2.9 3.1 AA1.02 Reactor/turbine pressure regulating system 3.0\* 3.1 3.0 3.1 **RPIS** AA1.03 3.1 3.1 3.2 A.C. electrical distribution 3.2 AA1.04 2.9 D.C. electrical distribution 2.8 2.9 2.8 AA1.05 4.1 4.0 4.1 4.0 Reactor water level AA1.06 4.2\* 4.3\* 4.2 4.3 Control room/local control transfer mechanisms AA1.07 4.0 4.0 4.0 4.0 -AA1.08 Reactor pressure 4.0 4.0 4.0 4.0 AA1.09 Isolation/emergency condenser(s): Plant-Specific (41.10 / 43.5 / 45.13) A2 Ability to determine and/or interpret the following as they apply to CONTROL ROOM ABANDONMENT: 4.1\* 4.1\* 4.1 4.1 AA2.01 Reactor power 4.2\* 4.3\* 4.2 4.3 AA2.02 Reactor water level 4.4 4.3\* 4.4\* 4.3 AA2.03 Reactor pressure 3.9 4.1 3.9 4.1 AA2.04 Suppression pool temperature 3.8 3.9 3.9 3.8 AA2.05 **Drywell pressure** 3.3 3.5 3.3 3.5 AA2.06 Cooldown rate 3.2 3.4 3.2 3.4 AA2.07 Suppression chamber pressure

Facility: CPS

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System Number: 295017

|               | System Name: High Off-Site Release Rate                                                                          |                 | <u>NRC</u> | Imp         | Facili     | <u>ty Imp</u> |
|---------------|------------------------------------------------------------------------------------------------------------------|-----------------|------------|-------------|------------|---------------|
| <u> </u>      |                                                                                                                  | CFR             | RO         | SRO         | RO         | SRO           |
| K1            | Knowledge of the operational implications of the following concepts as they apply to HIGH OFF-SITE RELEASE RATE: | (41.8 to 41.10) |            |             |            |               |
| AK1.01        | Biological effects of radioisotope ingestion                                                                     |                 | 2.2*       | 2.5         | 2.2        | 2.5           |
| AK1.02        | <sup>†</sup> Protection of the general public                                                                    |                 | 3.8*       | 4.3*        | 3.8        | 4.3           |
| AK1.03        | †Meteorological effects on off-site release                                                                      |                 | 2.7        | 3.4         | 2.7        | 3.4           |
| К2            | Knowledge of the interrelations between HIGH<br>OFF-SITE RELEASE RATE and the following:                         | (41.7, 45.8)    |            |             |            |               |
| AK2.01        | Fission product production versus reactor power                                                                  |                 | 2.8        | 3.3         | 2.8        | 3.3           |
| AK2.02        | Radwaste                                                                                                         |                 | 2.8        | 3.1         | 2.8        | 3.1           |
| AK2.03        | Off-gas system                                                                                                   |                 | 3.3        | 3.5         | 3.3        | 3.5           |
| AK2.04        | Plant ventilation systems                                                                                        |                 | 3.1        | 3.3         | 3.1        | 3.3           |
| AK2.05        | Stack-gas monitoring system: Plant-Specific                                                                      |                 | 3.4        | 3.6         | 3.4        | 3.6           |
| AK2.06        | †Site emergency plan                                                                                             |                 | 3.4        | 4.6*        | 3.4        | 4.6           |
| AK2.07        | Control room ventilation                                                                                         |                 | 3.2        | 3.4         | 3.2        | 3.4           |
| AK2.08        | SPDS/ERIS/CRIDS/GDS                                                                                              |                 | 2.8        | 3.3         | 2.8        | 3.3           |
| AK2.09        | Condenser air removal system: Plant-Specific                                                                     |                 | 2.8        | 2.9         | 2.8        | 2.9           |
| AK2.10        | Process radiation monitoring system                                                                              |                 | 3.3        | 3.6         | 3.3        | 3.6           |
| AK2.11        | MSIV leakage control: Plant-Specific                                                                             |                 | 3.1        | 3.2         | 3.1        | 3.2           |
| AK2.12        | Standby gas treatment/FRVS                                                                                       |                 | 3.4        | 3.7         | 3.4        | 3.7           |
| <b>AK2.13</b> | RPS                                                                                                              |                 | 3.4        | 3.7         | 3.4        | 3.7           |
| ₩AK2.14       | PCIS/NSSSS                                                                                                       |                 | 4.0        | 4.1         | 4.0        | 4.1           |
| К3            | Knowledge of the reasons for the following responses as                                                          | (41.5 / 45.6)   |            |             |            |               |
| A 1/2 01      | they apply to HIGH OFF-SITE KELEASE RATE:                                                                        |                 | 24         | 2.0         | 36         | 3.0           |
| AK3.01        | System isolations                                                                                                |                 | 3.0        | 2.5         | 3.0        | 3.9<br>2 4    |
| AK3.02        | Plant ventilation                                                                                                |                 | 3.3        | 3.3<br>4 5* | 3.3<br>3.2 | 5.3<br>1 5    |
| AK3.03        | Timplementation of site emergency plan                                                                           |                 | 3.5        | 4.5         | 3.5        | 4.J<br>3.9    |
| AK3.04        | Power reduction                                                                                                  |                 | 3.0<br>3.2 | 3.6         | 3.0        | 5.0<br>3.6    |
| AK3.05        | Control room ventilation: Plant-Specific                                                                         |                 | 5.5        | 5.0         | 5.5        | 5.0           |

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Facility: CPS

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System Number: 295017

| System Name: High Off-Site Release Rate |                                                                                                  |                        | <u>NRC In</u> |      | <u>ID Facility I</u> |     |  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|------------------------|---------------|------|----------------------|-----|--|
|                                         |                                                                                                  | CFR                    | RO            | SRO  | RO                   | S.  |  |
| A1                                      | Ability to operate and/or monitor the following as they apply to HIGH OFF-SITE RELEASE RATE:     | (41.7 / 45.6)          |               |      |                      |     |  |
| AA1.01                                  | Radwaste                                                                                         |                        | 2.7*          | 3.1  | 2.7                  | 3.1 |  |
| AA1.02                                  | Off-gas system                                                                                   |                        | 3.5           | 3.7  | 3.5                  | 3.7 |  |
| AA1.03                                  | Plant ventilation systems                                                                        |                        | 3.4           | 3.4  | 3.4                  | 3.4 |  |
| AA1.04                                  | Stack-gas monitoring system: Plant-Specific                                                      |                        | 3.6           | 3.8  | 3.6                  | 3.8 |  |
| AA1.05                                  | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                              |                        | 2.7           | 3.2  | 2.7                  | 3.2 |  |
| AA1.06                                  | Condenser air removal system: Plant-Specific                                                     |                        | 3.2           | 3.2  | 3.2                  | 3.2 |  |
| AA1.07                                  | Process radiation monitoring system                                                              |                        | 3.4           | 3.6  | 3.4                  | 3.6 |  |
| AA1.08                                  | MSIV leakage control: Plant-Specific                                                             |                        | 3.1           | 3.4  | 3.1                  | 3.4 |  |
| AA1.09                                  | Standby gas treatment/FRVS                                                                       |                        | 3.6           | 3.8  | 3.6                  | 3.8 |  |
| AA1.10                                  | RPS                                                                                              |                        | 3.6           | 3.7  | 3.6                  | 3.7 |  |
| AA1.11                                  | PCIS/NSSSS                                                                                       |                        | 3.9           | 4.1  | 3.9                  | 4.1 |  |
| AA1.12                                  | †Meteorological data                                                                             |                        | 2.5*          | 3.9  | 2.5                  | 3.9 |  |
| A2                                      | Ability to determine and/or interpret the following as they apply to HIGH OFF-SITE RELEASE RATE: | (41.10 / 43.5 / 45.13) |               |      |                      |     |  |
| AA2.01                                  | †Off-site release rate: Plant-Specific                                                           |                        | 2.9*          | 4.2* | 2.9                  | 4.2 |  |
| AA2.02                                  | Total number of curies released: Plant-Specific                                                  |                        | 2.4*          | 3.5* | 2.4                  | 3.5 |  |
| AA2.03                                  | *Radiation levels: Plant-Specific                                                                |                        | 3.1           | 3.9  | 3.1                  | 3.9 |  |
| AA2.04                                  | +Source of off-site release                                                                      |                        | 3.6           | 4.3* | 3.6                  | 4.3 |  |
| AA2.05                                  | +Meteorological data                                                                             |                        | 2.5           | 3.8  | 2.5                  |     |  |

| Facility: CPS |                                                      |                                                                                                       | Printe                 | d: 08/1 | 1/2006 |        |        |
|---------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------|---------|--------|--------|--------|
|               | System Number:                                       | 295018                                                                                                |                        |         |        |        |        |
|               | System Name:                                         | Partial or Complete Loss of Component                                                                 | Cooling                | NRC     | lmp    | Facili | ty lup |
|               | <u></u>                                              | Water                                                                                                 | CFR                    | RO      | SRO    | RO     | SRO    |
| кі            | Knowledge of<br>following cond<br>COMPLETE<br>WATER: | the operational implications of the<br>cepts as they apply to PARTIAL OR<br>LOSS OF COMPONENT COOLING | (41.8 to 41,10)        |         |        |        |        |
| AK1.01        | Effects on co                                        | mponent/system operations                                                                             |                        | 3.5     | 3.6    | 3.5    | 3.6    |
| К2            | Knowledge of<br>COMPLETE<br>WATER and                | the interrelations between PARTIAL OR<br>LOSS OF COMPONENT COOLING<br>the following:                  | (41.7, 45.8)           |         |        |        |        |
| AK2.01        | System loads                                         | сто толо полери                                                                                       |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| AK2.02        | Plant operation                                      | ons                                                                                                   |                        | 3.4     | 3.6    | 3.4    | 3.6    |
| К3            | Knowledge of<br>they apply to<br>COMPONEN            | the reasons for the following responses as<br>PARTIAL OR COMPLETE LOSS OF<br>T COOLING WATER:         | (41.5 / 45.6)          |         |        |        |        |
| AK3.01        | Isolation of n                                       | on-essential heat loads: Plant-Specific                                                               |                        | 2.9     | 3.2    | 2.9    | 3.2    |
| AK3.02        | Reactor pow                                          | er reduction                                                                                          |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| AK3.03        | Securing ind<br>damage)                              | ividual components (prevent equipment                                                                 |                        | 3.1     | 3.3    | 3.1    | 3.3    |
| AK3.04        | Starting stand                                       | dby pump                                                                                              |                        | 3.3     | 3.3    | 3.3    | 3.3    |
| <b>AK3.05</b> | Placing stand                                        | by heat exchanger in service                                                                          |                        | 3.2     | 3.3    | 3.2    | 3.3    |
| K3.06         | Increasing co                                        | poling water flow to heat exchangers                                                                  |                        | 3.3     | 3.3    | 3.3    | 3.3    |
| AK3.07        | Cross-connec                                         | cting with backup systems                                                                             |                        | 3.1     | 3.2    | 3.1    | 3.2    |
| A1            | Ability to ope<br>apply to PAR<br>COMPONEN           | rate and/or monitor the following as they<br>TIAL OR COMPLETE LOSS OF<br>'T COOLING WATER:            | (41.7 / 45.6)          |         |        |        |        |
| AA1.01        | Backup syste                                         | ems                                                                                                   |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| AA1.02        | System loads                                         | 3                                                                                                     |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| AA1.03        | Affected sys                                         | tems so as to isolate damaged portions                                                                |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| A2            | Ability to dete<br>they apply to<br>COMPONEN         | ermine and/or interpret the following as<br>PARTIAL OR COMPLETE LOSS OF<br>IT COOLING WATER:          | (41.10 / 43.5 / 45.13) |         |        |        |        |
| AA2.01        | Component 1                                          | lemperatures                                                                                          |                        | 3.3     | 3.4    | 3.3    | 3.4    |
| AA2.02        | Cooling wate                                         | er temperature                                                                                        |                        | 3.1     | 3.2    | 3.1    | 3.2    |
| AA2.03        | Cause for pa                                         | rtial or complete loss                                                                                |                        | 3.2     | 3.5    | 3.2    | 3.5    |
| AA2.04        | System flow                                          | -                                                                                                     |                        | 2.9     | 2.9    | 2.9    | 2.9    |
| AA2.05        | System press                                         | sure                                                                                                  |                        | 2.9     | 2.9    | 2.9    | 2.9    |

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|          | Facility: CPS                                                                                                          |                        |      | Printe     | ed: 08/1      | 1/2006 |
|----------|------------------------------------------------------------------------------------------------------------------------|------------------------|------|------------|---------------|--------|
|          | System Number: 295019                                                                                                  |                        |      |            |               |        |
|          | System Name: Partial or Complete Loss of Instrument                                                                    | Air                    | NRC  | լաթ        | <u>Facili</u> | ty Imp |
|          |                                                                                                                        | CFR                    | RO   | SRO        | RO            | SRO    |
| К2       | Knowledge of the interrelations between PARTIAL OR<br>COMPLETE LOSS OF INSTRUMENT AIR and the                          | (41.7, 45.8)           |      |            |               |        |
| AK 2 01  | CRD hydraulies                                                                                                         |                        | 3.8  | 3.9        | 3.8           | 39     |
| AK2.01   | Component cooling water                                                                                                |                        | 2.0  | 3.0        | 2.0           | 3.0    |
| AK2.02   | Reactor feedwater                                                                                                      |                        | 2.9  | 33         | 3.2           | 2.0    |
| AK2.03   | Reactor water cleanun                                                                                                  |                        | 28   | 2.5<br>2.8 | 2.2           | 2.5    |
| AK2 05   | Main steam system                                                                                                      |                        | 2.0  | 2.0        | 3.4           | 2.0    |
| AK2.03   | Offans system                                                                                                          |                        | 2.7  | 2.4        | 2.4           | 2.4    |
| AK2.00   | Condensete system                                                                                                      |                        | 2.0  | 2.9        | 2.0<br>2.7    | 2.9    |
| AK2.07   | Diant continuing                                                                                                       |                        | 3.2  | 2.2        | 3.2<br>2.9    | 2.2    |
| AK2.08   | Plant ventilation                                                                                                      |                        | 2.8  | 2.9        | 2.8           | 2.9    |
| AK2.09   |                                                                                                                        |                        | 3.3  | 3.3        | 3.3           | 3.3    |
| AK2.10   | Fuel pool cooling                                                                                                      |                        | 2.8  | 2.8        | 2.8           | 2.8    |
| AK2.11   | Kadwaste                                                                                                               |                        | 2.5  | 2.0        | 2.5           | 2.6    |
| AK2.12   | Standby gas treatment/FRVS                                                                                             |                        | 3.3  | 3.4        | 3.3           | 3.4    |
| AK2.13   | Isolation condenser: Plant-Specific                                                                                    |                        | 3.2* | 3.2*       | 3.2           | 3.2    |
| AK2.14   | Plant air systems                                                                                                      |                        | 3.2  | 3.2        | 3.2           | 3.2    |
| AK2.15   | Standby liquid control system                                                                                          |                        | 2.3* | 2.6        | 2.3           | 2.6    |
| AK2.16   | Reactor core isolation cooling                                                                                         |                        | 2.8  | 2.8        | 2.8           | 2.8    |
| AK2.17   | High pressure coolant injection: Plant Specific                                                                        |                        | 2.7  | 2.7        | 2.7           | 2.7    |
| AK2.18   | ADS: Plant-Specific                                                                                                    |                        | 3.5  | 3.5        | 3.5           | 3.5    |
| AK2.19   | RHR/LPC1: Plant-Specific                                                                                               |                        | 2.7  | 2.8        | 2.7           | 2.8    |
| к3       | Knowledge of the reasons for the following responses as                                                                | (41.5 / 45.6)          |      |            |               |        |
|          | they apply to PARTIAL OR COMPLETE LOSS OF<br>INSTRUMENT AIR:                                                           | (111)                  |      |            |               |        |
| AK3.01   | Backup air system supply: Plant-Specific                                                                               |                        | 3.3  | 3.4        | 3.3           | 3.4    |
| AK3.02   | Standby air compressor operation                                                                                       |                        | 3.5  | 3.4        | 3.5           | 3.4    |
| AK3.03   | Service air isolations: Plant-Specific                                                                                 |                        | 3.2  | 3.2        | 3.2           | 3.2    |
| A1       | Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF                           | (41.7 / 45.6)          |      |            |               |        |
| A A 1 01 | Rockup air supply                                                                                                      |                        | 35   | 33         | 3.5           | 33     |
| A A 1 02 | Instrument air system uslussy Plant Specific                                                                           |                        | 3.5  | 3.5        | 3.5           | 3.1    |
| AA1.02   | Instrument air system valves. Flam-Specific                                                                            |                        | 3.0  | 3.0        | 3.0           | 3.1    |
| AA1.05   | Semice en inclutione values Plant Specific                                                                             |                        | 3.0  | 3.0        | 3.0           | 3.0    |
| AA1.04   | service air isolations valves. Flant-specific                                                                          |                        | 5.5  | 2.2        | 5.5           | 5.2    |
| A2       | Ability to determine and/or interpret the following as<br>they apply to PARTIAL OR COMPLETE LOSS OF<br>INSTRUMENT AIR: | (41.10 / 43.5 / 45.13) |      |            |               |        |
| AA2.01   | Instrument air system pressure                                                                                         |                        | 3.5  | 3.6        | 3.5           | 3.6    |
| AA2.02   | Status of safety-related instrument air system loads (see AK2.1-AK2.19)                                                |                        | 3.6  | 3.7        | 3.6           | 3.7    |

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**Facility:** 

|         | System Number: 295020                                                                                         |                     |      |     |        |        |
|---------|---------------------------------------------------------------------------------------------------------------|---------------------|------|-----|--------|--------|
|         | System Name: Inadvertent Containment Isolation                                                                |                     | NRC  | Imp | Facili | ty Imo |
| • · · · |                                                                                                               | CFR                 | RO   | SRO | RO     | SRO    |
| К1      | Knowledge of the operational implications of the                                                              | (41.8 to 41.10)     |      |     |        |        |
|         | following concepts as they apply to INADVERTENT                                                               | . ,                 |      |     |        |        |
|         | CONTAINMENT ISOLATION:                                                                                        |                     |      |     |        |        |
| AK1.01  | Loss of normal heat sink                                                                                      |                     | 3.7  | 3.9 | 3.7    | 3.9    |
| AK1.02  | Power/reactivity control                                                                                      |                     | 3.5  | 3.8 | 3.5    | 3.8    |
| AK1.03  | Water chemistry                                                                                               |                     | 2.3  | 2.5 | 2.3    | 2.5    |
| AK1.04  | Bottom head thermal stratification                                                                            |                     | 2.5  | 2.8 | 2.5    | 2.8    |
| AK1.05  | Loss of drywell/containment cooling                                                                           |                     | 3.3  | 3.6 | 3.3    | 3.6    |
| К2      | Knowledge of the interrelations between<br>INADVERTENT CONTAINMENT ISOLATION and                              | (41.7, 45.8)<br>the |      |     |        |        |
|         | following:                                                                                                    |                     |      |     |        |        |
| AK2.01  | Main steam system                                                                                             |                     | 3.6  | 37  | 3.6    | 37     |
| AK2.02  | Sampling system                                                                                               |                     | 2.6  | 2.8 | 2.6    | 2.8    |
| AK2.03  | Drywell/containment ventilation/cooling: Plant-Specific                                                       |                     | 3.1  | 3.3 | 3.1    | 3.3    |
| AK2.04  | RWCU system                                                                                                   |                     | 3.1  | 3.1 | 3.1    | 3.1    |
| AK2.05  | Isolation condenser: Plant-Specific                                                                           |                     | 4.2* | 4.2 | 4.2    | 4.2    |
| AK2.06  | HPCI: Plant-Specific                                                                                          |                     | 3.8  | 3.8 | 3.8    | 3.8    |
| AK2.07  | RCIC: Plant-Specific                                                                                          |                     | 3.4  | 3.4 | 3.4    | 3.4    |
| AK2.08  | Traversing in-core probes: Plant-Specific                                                                     |                     | 2.5* | 2.6 | 2.5    | 2.6    |
| AK2.09  | RHR/shutdown cooling: Plant-Specific                                                                          |                     | 3.1  | 3.3 | 3.1    | 3.3    |
| 4K2.10  | Drywell equipment/floor drain sumps                                                                           |                     | 2.9  | 3.1 | 2.9    | 3.1    |
| AK2.11  | Standby gas treatment system/FRVS: Plant-Specific                                                             |                     | 3.2  | 3.4 | 3.2    | 3.4    |
| AK2.12  | Instrument air/nitrogen: Plant-Specific                                                                       |                     | 3.1  | 3.2 | 3.1    | 3.2    |
| К3      | Knowledge of the reasons for the following responses a<br>they apply to INADVERTENT CONTAINMENT<br>ISOLATION: | as (41.5 / 45.6)    |      |     |        |        |
| AK3.01  | Reactor SCRAM                                                                                                 |                     | 3.8  | 3.8 | 3.8    | 3.8    |
| AK3.02  | Drywell/containment pressure response                                                                         |                     | 3.3  | 3.5 | 3.3    | 3.5    |
| AK3.03  | Drywell/containment temperature response                                                                      |                     | 3.2  | 3.2 | 3.2    | 3.2    |
| AK3.04  | Reactor pressure response                                                                                     |                     | 4.1  | 4.1 | 4.1    | 4.1    |
| AK3.05  | Reactor water level response                                                                                  |                     | 3.8  | 3.9 | 3.8    | 3.9    |
| AK3.06  | Suppression pool water level response                                                                         |                     | 3.3  | 3.4 | 3.3    | 3.4    |
| AK3.07  | Suppression pool temperature response                                                                         |                     | 3.4  | 3.6 | 3.4    | 3.6    |
| AK3.08  | Suppression chamber pressure response                                                                         |                     | 3.3  | 3.5 | 3.3    | 3.5    |
| A1      | Ability to operate and/or monitor the following as they<br>apply to INADVERTENT CONTAINMENT<br>ISOLATION:     | (41.7 / 45.6)       |      |     |        |        |
| AA1.01  | PCIS/NSSSS                                                                                                    |                     | 3.6  | 3.6 | 3.6    | 3.6    |
| AA1.02  | Drywell ventilation/cooling system                                                                            |                     | 3.2  | 3.2 | 3.2    | 3.2    |
| AA1.03  | Containment ventilation system: Plant-Specific                                                                |                     | 2.9  | 3.1 | 2.9    | 3.1    |

| Facility: CPS |                                                                                                               |                        |            | Printe | :d: 08/1      | 1/2006 |
|---------------|---------------------------------------------------------------------------------------------------------------|------------------------|------------|--------|---------------|--------|
|               | System Number: 295020                                                                                         |                        |            |        |               |        |
|               | System Name: Inadvertent Containment Isolation                                                                |                        | <u>NRC</u> | Imp    | <u>Facili</u> | ty Ir  |
|               |                                                                                                               | CFR                    | ĸO         | SKO    | ĸO            | •      |
| A2            | Ability to determine and/or interpret the following as<br>they apply to INADVERTENT CONTAINMENT<br>ISOLATION: | (41.10 / 43.5 / 45.13) |            |        |               |        |
| AA2.01        | Drywell/containment pressure                                                                                  |                        | 3.6        | 3.7    | 3.6           | 3.7    |
| AA2.02        | Drywell/containment temperature                                                                               |                        | 3.3        | 3.4    | 3.3           | 3.4    |
| AA2.03        | Reactor power                                                                                                 |                        | 3.7        | 3.7    | 3.7           | 3.7    |
| AA2.04        | Reactor pressure                                                                                              |                        | 3.9        | 3.9    | 3.9           | 3.9    |
| AA2.05        | Reactor water level                                                                                           |                        | 3.6        | 3.6    | 3.6           | 3.6    |
| AA2.06        | Cause of isolation                                                                                            |                        | 3.4        | 3.8    | 3.4           | 3.8    |

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RO

Facility Imp

SRO

NRC Imp

SRO

RO

CFR

| Facility: | CPS |
|-----------|-----|
|           |     |

System Name:

System Number: 295021

Loss of Shutdown Cooling

| KI       | Knowledge of the operational implications of the<br>following concepts as they apply to LOSS OF<br>SHUTDOWN COOLING: | (41.8 to 41.10)        |     |     |     |     |
|----------|----------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-----|-----|
| AK1 01   | Decay heat                                                                                                           |                        | 3.6 | 3.8 | 3.6 | 3.8 |
| AK1 02   | Thermal stratification                                                                                               |                        | 3.3 | 3.4 | 3.3 | 3.4 |
| AK1.02   | A dequate core cooling.                                                                                              |                        | 3.9 | 3.9 | 3.9 | 3.9 |
| AK1.04   | Natural circulation                                                                                                  |                        | 3.6 | 3.7 | 3.6 | 3.7 |
| K2       | Knowledge of the interrelations between LOSS OF<br>SHUTDOWN COOLING and the following:                               | (41.7, 45.8)           |     |     |     |     |
| AK2.01   | Reactor water temperature                                                                                            |                        | 3.6 | 3.7 | 3.6 | 3.7 |
| AK2.02   | Reactor water cleanup                                                                                                |                        | 3.2 | 3.3 | 3.2 | 3.3 |
| AK2.03   | RHR/shutdown cooling                                                                                                 |                        | 3.6 | 3.6 | 3.6 | 3.6 |
| AK2.04   | Component cooling water systems: Plant-Specific                                                                      |                        | 3.0 | 3.1 | 3.0 | 3.1 |
| AK2.05   | Fuel pool cooling and cleanup system                                                                                 |                        | 2,7 | 2.8 | 2.7 | 2.8 |
| AK2.06   | Reactor vessel headspray: Plant-Specific                                                                             |                        | 2.5 | 2.6 | 2.5 | 2.6 |
| AK2.07   | Reactor recirculation                                                                                                |                        | 3.1 | 3.2 | 3.1 | 3.2 |
| К3       | Knowledge of the reasons for the following responses as they apply to LOSS OF SHUTDOWN COOLING:                      | (41.5 / 45.6)          |     |     |     |     |
| AK3.01   | Raising reactor water level                                                                                          |                        | 3.3 | 3.4 | 3.3 | 3.4 |
| AK3.02   | Feeding and bleeding reactor vessel                                                                                  |                        | 3.3 | 3.4 | 3.3 | 3.4 |
| AK3.03   | Increasing drywell cooling                                                                                           |                        | 2.9 | 2.9 | 2.9 | 2.9 |
| AK3.04   | Maximizing reactor water cleanup flow                                                                                |                        | 3.3 | 3.4 | 3.3 | 3.4 |
| AK3.05   | Establishing alternate heat removal flow paths                                                                       |                        | 3.6 | 3.8 | 3.6 | 3.8 |
| A1       | Ability to operate and/or monitor the following as they apply to LOSS OF SHUTDOWN COOLING:                           | (41.7 / 45.6)          |     |     |     |     |
| AA1.01   | Reactor water cleanup system                                                                                         |                        | 3.4 | 3.4 | 3.4 | 3.4 |
| AA1.02   | RHR/shutdown cooling                                                                                                 |                        | 3.5 | 3.5 | 3.5 | 3.5 |
| AA1.03   | Component cooling water systems: Plant-Specific                                                                      |                        | 3.1 | 3.1 | 3.1 | 3.1 |
| AA1.04   | Alternate heat removal methods                                                                                       |                        | 3.7 | 3.7 | 3.7 | 3.7 |
| AA1.05   | Reactor recirculation                                                                                                |                        | 3.0 | 3.0 | 3.0 | 3.( |
| AA1.06   | Containment/ drywell temperature                                                                                     |                        | 2.8 | 3.0 | 2.8 | 3.1 |
| A2       | Ability to determine and/or interpret the following as                                                               | (41.10 / 43.5 / 45.13) |     |     |     |     |
| A A 2 01 | Reactor water heatin/cooldown rate                                                                                   |                        | 35  | 3.6 | 35  | 3   |
| A A 2 M2 | RHR/shutdown cooling system flow                                                                                     |                        | 3.4 | 3.4 | 3.4 | 3   |
| A A 2 D3 | Reactor water level                                                                                                  |                        | 3.5 | 3.6 | 3.5 | 3   |
| A A 7 04 | Reactor water temperature                                                                                            |                        | 3.6 | 3.5 | 3.6 | 3   |
| AA2 05   | Reactor vessel metal temperature                                                                                     |                        | 3.4 | 3.3 | 3.4 | 3   |
| AA2.06   | Reactor pressure                                                                                                     |                        | 3.2 | 3.3 | 3.2 | 3   |
| AA2.07   | Reactor recirculation flow                                                                                           |                        | 2.9 | 3.1 | 2.9 | 2   |

| Facility: CPS         |                          |     | Printed: | 08/11/2006         |
|-----------------------|--------------------------|-----|----------|--------------------|
| <u>System Number:</u> | 295021                   |     |          |                    |
| <u>System Name:</u>   | Loss of Shutdown Cooling |     | NRC Imp  | <u>Facility In</u> |
|                       |                          | CFR | RO SRO   | RO Si              |

| Facility: CPS |                                                                                                         |                        |      | Printe | a: 08/1 | 1/2006 |
|---------------|---------------------------------------------------------------------------------------------------------|------------------------|------|--------|---------|--------|
|               | System Number: 295022                                                                                   |                        |      |        |         |        |
|               | System Names Loss of CRD Pumps                                                                          |                        | NRC  | Imn    | Facili  | tv Imn |
| <u> </u>      | orsen name. Doss of Cito I umps                                                                         | CFR                    | RO   | SRO    | RO      | SRC    |
| K1            | Knowledge of the operational implications of the following concepts as they apply to LOSS OF CRD PUMPS: | (41.8 to 41.10)        |      |        |         |        |
| AK1.01        | Reactor pressure vs. rod insertion capability                                                           |                        | 3.3  | 3.4    | 3.3     | 3.4    |
| AK1.02        | Reactivity control                                                                                      |                        | 3.6  | 3.7    | 3.6     | 3.7    |
| K2            | Knowledge of the interrelations between LOSS OF CRD<br>PUMPS and the following:                         | (41.7, 45.8)           |      |        |         |        |
| AK2.01        | Recirculation system: Plant-Specific                                                                    |                        | 2.8  | 3.0    | 2.8     | 3.0    |
| AK2.02        | CRD mechanism                                                                                           |                        | 3.1  | 3.1    | 3.1     | 3.1    |
| AK2.03        | Accumulator pressures.                                                                                  |                        | 3.4  | 3.4    | 3.4     | 3.4    |
| AK2.04        | Reactor water level                                                                                     |                        | 2.5  | 2.7    | 2.5     | 2.7    |
| AK2.05        | Reactor water cleanup: Plant-Specific                                                                   |                        | 2.4  | 2.5    | 2.4     | 2.5    |
| AK2.06        | Shared components with other units: Plant-Specific                                                      |                        | 2.6  | 2.8    | 2.6     | 2.8    |
| AK2.07        | Reactor pressure (SCRAM assist): Plant-Specific                                                         |                        | 3.4  | 3.6    | 3.4     | 3.6    |
| К3            | Knowledge of the reasons for the following responses as they apply to LOSS OF CRD PUMPS:                | (41.5 / 45.6)          |      |        |         |        |
| AK3.01        | Reactor SCRAM                                                                                           |                        | 3.7* | 3.9*   | 3.7     | 3.9    |
| AK3.02        | CRDM high temperature                                                                                   |                        | 2.9  | 3.1    | 2.9     | 3.1    |
| Al            | Ability to operate and/or monitor the following as they apply to LOSS OF CRD PUMPS:                     | (41.7 / 45.6)          |      |        |         |        |
| AA1.01        | CRD hydraulic system                                                                                    |                        | 3.1  | 3.2    | 3.1     | 3.2    |
| AA1.02        | RPS                                                                                                     |                        | 3.6  | 3.6    | 3.6     | 3.6    |
| AA1.03        | Recirculation system: Plant-Specific                                                                    |                        | 2.7  | 2.8    | 2.7     | 2.8    |
| AA1.04        | Reactor water cleanup system: Plant-Specific                                                            |                        | 2.5  | 2.6    | 2.5     | 2.6    |
| A2            | Ability to determine and/or interpret the following as they apply to LOSS OF CRD PUMPS:                 | (41.10 / 43.5 / 45.13) |      |        |         |        |
| AA2.01        | Accumulator pressure                                                                                    |                        | 3.5  | 3.6    | 3.5     | 3.6    |
| AA2.02        | CRD system status                                                                                       |                        | 3.3  | 3.4    | 3.3     | 3.4    |
| AA2.03        | CRD mechanism temperatures                                                                              |                        | 3.1  | 3.2    | 3.1     | 3.2    |

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|         | Facility: CPS                                                                                           |                    | Printed: 08/11/20 |      |        |        |  |  |
|---------|---------------------------------------------------------------------------------------------------------|--------------------|-------------------|------|--------|--------|--|--|
|         | System Number: 295023                                                                                   |                    |                   |      |        |        |  |  |
|         | System Name: Refueling Accidents                                                                        |                    | NRC               | Imp  | Facili | ty Imp |  |  |
|         |                                                                                                         | CFR                | RO                | SRO  | RO     | SRO    |  |  |
| K1      | Knowledge of the operational implications of the (41.8<br>following concepts as they apply to REFUELING | s to 41.10)        |                   |      |        |        |  |  |
| AK 1 01 | Radiation exposure hazards                                                                              |                    | 3.6               | 41   | 36     | 41     |  |  |
| AK1.02  | Shutdown margin                                                                                         |                    | 3.2               | 3.6  | 32     | 3.6    |  |  |
| AK1.03  | Inadvertent criticality                                                                                 |                    | 3.7               | 4.0  | 3.7    | 4.0    |  |  |
| K2      | Knowledge of the interrelations between REFUELING (41.7<br>ACCIDENTS and the following:                 | ', 45.8)           |                   |      |        |        |  |  |
| AK2.01  | Fuel handling equipment                                                                                 |                    | 3.3               | 3.7  | 3.3    | 3.7    |  |  |
| AK2.02  | Fuel pool cooling and cleanup system                                                                    |                    | 2.9               | 3.2  | 2.9    | 3.2    |  |  |
| AK2.03  | Radiation monitoring equipment                                                                          |                    | 3.4               | 3.6  | 3.4    | 3.6    |  |  |
| AK2.04  | RMCS/Rod control and information system                                                                 |                    | 3.2               | 3.4  | 3.2    | 3.4    |  |  |
| AK2.05  | Secondary containment ventilation                                                                       |                    | 3.5               | 3.7  | 3.5    | 3.7    |  |  |
| AK2.06  | Containment ventilation: Mark-III                                                                       |                    | 3.4               | 3.8  | 3.4    | 3.8    |  |  |
| AK2.07  | Standby gas treatment/FRVS                                                                              |                    | 3.6               | 3.9  | 3.6    | 3.9    |  |  |
| К3      | Knowledge of the reasons for the following responses as (41.5<br>they apply to REFUELING ACCIDENTS:     | i / 45.6)          |                   |      |        |        |  |  |
| AK3.01  | Refueling floor evacuation                                                                              |                    | 3.6               | 4.3  | 3.6    | 4.3    |  |  |
| 4K3.02  | Interlocks associated with fuel handling equipment                                                      |                    | 3.4               | 3.8* | 3.4    | 3.8    |  |  |
| AK3.03  | Ventilation isolation                                                                                   |                    | 3.3               | 3.6  | 3.3    | 3.6    |  |  |
| AK3.04  | Non-coincident SCRAM function                                                                           |                    | 3.0               | 3.5  | 3.0    | 3.5    |  |  |
| AK3.05  | Initiation of SLC/shut-down cooling: Plant-Specific(BWR-1)                                              |                    | 3.5               | 4.0  | 3.5    | 4.0    |  |  |
| Al      | Ability to operate and/or monitor the following as they (41.7 apply to REFUELING ACCIDENTS:             | / / 45.6)          |                   |      |        |        |  |  |
| AA1.01  | Secondary containment ventilation                                                                       |                    | 3.3               | 3.5  | 3.3    | 3.5    |  |  |
| AA1.02  | Fuel pool cooling and cleanup system                                                                    |                    | 2.9               | 3.1  | 2.9    | 3.1    |  |  |
| AA1.03  | Fuel handling equipment                                                                                 |                    | 3.3               | 3.6  | 3.3    | 3.6    |  |  |
| AA1.04  | Radiation monitoring equipment                                                                          |                    | 3.4               | 3.7  | 3.4    | 3.7    |  |  |
| AA1.05  | Fuel transfer system: Plant-Specific                                                                    |                    | 2.8               | 3.5  | 2.8    | 3.5    |  |  |
| AA1.06  | Neutron monitoring                                                                                      |                    | 3.3               | 3.4  | 3.3    | 3.4    |  |  |
| AA1.07  | Standby gas treatment/FRVS                                                                              |                    | 3.6               | 3.6  | 3.6    | 3.6    |  |  |
| AA1.08  | †Containment building ventilation: Mark-III                                                             |                    | 3.3               | 3.4  | 3.3    | 3.4    |  |  |
| A2      | Ability to determine and/or interpret the following as (41.1) they apply to REFUELING ACCIDENTS:        | 10 / 43.5 / 45.13) |                   |      |        |        |  |  |
| AA2.01  | Area radiation levels                                                                                   |                    | 3.6               | 4.0  | 3.6    | 4.0    |  |  |
| AA2.02  | Fuel pool level                                                                                         |                    | 3.4               | 3.7  | 3.4    | 3.7    |  |  |
| AA2.03  | Airborne contamination levels                                                                           |                    | 3.3*              | 3.8* | 3.3    | 3.8    |  |  |
| AA2.04  | †Occurrence of fuel handling accident                                                                   |                    | 3.4               | 4.1  | 3.4    | 4.1    |  |  |
| AA2.05  | †Entry conditions of emergency plan                                                                     |                    | 3.2               | 4.6* | 3.2    | 4.6    |  |  |

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|        | Facility: CPS                                                                                               |                 |      | Printed: 08/11/2006 |         |            |  |  |
|--------|-------------------------------------------------------------------------------------------------------------|-----------------|------|---------------------|---------|------------|--|--|
|        | System Number: 295024                                                                                       |                 |      |                     |         |            |  |  |
|        | System Name: High Drywell Pressure                                                                          |                 | NRC  | Imp                 | Facilit | y Imp      |  |  |
| ~      |                                                                                                             | CFR             | RO   | SRO                 | RO      | SRO        |  |  |
| K1     | Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL PRESSURE: | (41.8 to 41.10) |      |                     |         |            |  |  |
| EK1.01 | Drywell integrity: Plant-Specific                                                                           |                 | 4.1  | 4.2*                | 4.1     | 4.2        |  |  |
| EK1.02 | Containment building integrity: Mark-III                                                                    |                 | 3.9  | 4.1                 | 3.9     | 4.1        |  |  |
| К2     | Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following:                            | (41.7, 45.8)    |      |                     |         |            |  |  |
| EK2.01 | HPCI (FWCI): Plant-Specific                                                                                 |                 | 3.9  | 4.0                 | 3.9     | 4.0        |  |  |
| EK2.02 | HPCS: Plant-Specific                                                                                        |                 | 3.7  | 3.7                 | 3.7     | 3.7        |  |  |
| EK2.03 | LPCS: Plant-Specific                                                                                        |                 | 3.8  | 3.8                 | 3.8     | 3.8        |  |  |
| EK2.04 | RHR/LPCI                                                                                                    |                 | 3.9  | 3.9                 | 3.9     | 3.9        |  |  |
| EK2.05 | RPS                                                                                                         |                 | 3.9  | 4.0                 | 3.9     | 4.0        |  |  |
| EK2 06 | Emergency generators                                                                                        |                 | 3.9  | 4.0                 | 3.9     | 4.0        |  |  |
| EK2 07 | PCIS/NSSSS                                                                                                  |                 | 3.9  | 3.9                 | 3.9     | 3.9        |  |  |
| EK2 08 | ADS: Plant-Specific                                                                                         |                 | 4.0  | 4.1                 | 4.0     | 4.1        |  |  |
| EK2.00 | Suppression pool makeun: Plant-Specific                                                                     |                 | 29   | 3.1                 | 2.9     | 3.1        |  |  |
| EK2 10 | A C distribution                                                                                            |                 | 3.5  | 3.5                 | 3 5     | 35         |  |  |
| EK2.10 | Drawell spray (RHR) logio: Mark L&H                                                                         |                 | 42   | 4.2*                | 42      | 4.2        |  |  |
| EK2 12 | Suppression pool cooling                                                                                    |                 | 3.5  | 35                  | 35      | 35         |  |  |
| EK2 12 | Suppression pool cooring<br>Suppression pool spray: Dlant_Specific                                          |                 | 3.8  | 3.8                 | 3.8     | 3.8        |  |  |
| 2014   | Containment pressure: Mark III                                                                              |                 | 3.0  | 30                  | 3.0     | 30         |  |  |
| .2.14  | Containment pressure, Mark-III                                                                              |                 | 3.8  | 3.9                 | 3.8     | 3.0        |  |  |
| EV2 16 | Containment spray togic. Flant-Specific                                                                     |                 | 2.0  | 3.7                 | 2.0     | 2.7        |  |  |
| EK2.10 | SPDS/ERIS/CRIDS: Plant-Specific                                                                             |                 | 3.2  | 2.2                 | 3.2     | 2.2        |  |  |
| EK2.17 | Auxiliary building isolation logic: Mant Specific                                                           |                 | 5.0  | 2.2                 | 2.0     | 5.5<br>2 4 |  |  |
| EK2.18 | Ventilation                                                                                                 |                 | 3.3  | 3.4                 | 3.3     | 3.4        |  |  |
| EK2.19 | Feedwater and condensate: Plant-Specific                                                                    |                 | 2.9  | 2.9                 | 2.9     | 2.9        |  |  |
| EK2.20 | D.C. distribution: Plant-Specific                                                                           |                 | 2.8  | 2.9                 | 2.8     | 2.9        |  |  |
| К3     | Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL PRESSURE:                | (41.5 / 45.6)   |      |                     |         |            |  |  |
| EK3.01 | Drywell spray operation: Mark-I&II                                                                          |                 | 3.6  | 4.0                 | 3.6     | 4.0        |  |  |
| EK3.02 | Suppression pool spray operation: Plant-Specific                                                            |                 | 3.5  | 3.8                 | 3,5     | 3.8        |  |  |
| EK3.03 | Containment venting: Mark-III                                                                               |                 | 3.6  | 4.1                 | 3.6     | 4.1        |  |  |
| EK3.04 | †Emergency depressurization                                                                                 |                 | 3.7  | 4.1                 | 3.7     | 4.1        |  |  |
| EK3.05 | †RPV flooding                                                                                               |                 | 3.5  | 3.8                 | 3.5     | 3.8        |  |  |
| EK3.06 | Reactor SCRAM                                                                                               |                 | 4.0* | 4.1                 | 4.0     | 4.1        |  |  |
| EK3.07 | Drywell venting                                                                                             |                 | 3.5  | 4.0                 | 3.5     | 4.0        |  |  |
| EK3.08 | Containment spray: Plant Specific                                                                           |                 | 3.7  | 4.1                 | 3.7     | 4.1        |  |  |
| EK3.09 | Auxiliary building isolation: Plant Specific.                                                               |                 | 3.1  | 3.6                 | 3.1     | 3.6        |  |  |

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System Number: 295024

|        | <u>System Name:</u> High Drywell Pressure                                               |               | NRC Imp |      | Facility Im |     |
|--------|-----------------------------------------------------------------------------------------|---------------|---------|------|-------------|-----|
|        |                                                                                         | CFR           | RO      | SRO  | RO          | S   |
| A1     | Ability to operate and/or monitor the following as they apply to HIGH DRYWELL PRESSURE: | (41.7 / 45.6) |         |      |             |     |
| EA1.01 | HPCI (FWCI): Plant-Specific                                                             |               | 4.1*    | 4.0  | 4.1         | 4.0 |
| EA1.02 | HPCS: Plant-Specific                                                                    |               | 3.8     | 3.7  | 3.8         | 3.7 |
| EA1.03 | LPCS: Plant-Specific                                                                    |               | 4.0     | 3.9  | 4.0         | 3.9 |
| EA1.04 | RHR/LPCI                                                                                |               | 4.1     | 3.9  | 4.1         | 3.9 |
| EA1.05 | RPS                                                                                     |               | 3.9     | 4.0  | 3.9         | 4.0 |
| EA1.06 | Emergency generators                                                                    |               | 3.7     | 3.7  | 3.7         | 3.7 |
| EA1.07 | PCIS/NSSSS                                                                              |               | 3.8     | 3.9  | 3.8         | 3.9 |
| EA1.08 | ADS: Plant-Specific                                                                     |               | 3.9     | 3.9  | 3.9         | 3.9 |
| EA1.09 | Suppression pool makeup: Plant-Specific                                                 |               | 2.9     | 3.0  | 2.9         | 3.0 |
| EA1.10 | A.C. distribution                                                                       |               | 3.4     | 3.6  | 3.4         | 3.6 |
| EA1.11 | Drywell spray: Mark-I&II                                                                |               | 4.2*    | 4.2* | 4.2         | 4.2 |
| EA1.12 | Suppression pool spray: Mark-I&II                                                       |               | 3.8     | 3.8  | 3.8         | 3.8 |
| EA1.13 | Suppression pool cooling                                                                |               | 3.6     | 3.6  | 3.6         | 3.6 |
| EA1.14 | Drywell ventilation system                                                              |               | 3.4     | 3.5  | 3.4         | 3.5 |
| EA1.15 | Containment/drywell atmospheric monitoring                                              |               | 3.6     | 3.7  | 3.6         | 3.7 |
| EA1.16 | Containment/drywell vacuum breakers                                                     |               | 3.4     | 3.4  | 3.4         | 3.4 |
| EA1.17 | Containment spray: Plant-Specific                                                       |               | 3.9     | 3.9  | 3.9         | 3.9 |
| EA1.18 | Containment ventilation system: Mark-III                                                |               | 3.6     | 3.6  | 3.6         | 3.6 |
| EA1.19 | Containment atmosphere control: Plant-Specific                                          |               | 3.3     | 3.4  | 3.3         | 3.4 |
| EA1.20 | Standby gas treatment/FRVS: Plant-Specific                                              |               | 3.5     | 3.6  | 3.5         | 3.6 |
| EA1.21 | Recirculation system (LPCI loop select logic): Plant-Specif                             | ોંદ           | 3.4     | 3.8  | 3.4         | 3.8 |
| EA1.22 | D.C. distribution: Plant-Specific                                                       |               | 2.7     | 2.9  | 2.7         | 2.9 |
|        |                                                                                         |               |         |      |             |     |

| A2     | Ability to determine and/or interpret the following as they apply to HIGH DRYWELL PRESSURE: | (41.10 / 43.5 / 45.13) |      |      |     |     |
|--------|---------------------------------------------------------------------------------------------|------------------------|------|------|-----|-----|
| EA2.01 | Drywell pressure                                                                            |                        | 4.2* | 4.4* | 4.2 | 4.4 |
| EA2.02 | Drywell temperature                                                                         |                        | 3.9  | 4.0  | 3.9 | 4.0 |
| EA2.03 | Suppression pool level                                                                      |                        | 3.8  | 3.8  | 3.8 | 3.8 |
| EA2.04 | Suppression chamber pressure: Plant-Specific                                                |                        | 3.9  | 3.9  | 3.9 | 3.9 |
| EA2.05 | Suppression chamber air-space temperature: Plant-Specific                                   |                        | 3.6  | 3.1  | 3.6 | 3.1 |
| EA2.06 | Suppression pool temperature                                                                |                        | 4.1  | 4.1  | 4.1 | 4.1 |
| EA2.07 | Containment radiation levels: Mark-III                                                      |                        | 3.4  | 3.9  | 3.4 | 3.9 |
| EA2.08 | Drywell radiation levels                                                                    |                        | 3.6  | 4.0  | 3.6 | 4.0 |
| EA2.09 | Containment pressure: Mark-III                                                              |                        | 4.0* | 4.1* | 4.0 | 4.1 |
| EA2.10 | Containment temperature: Mark-III                                                           |                        | 3.7  | 3.9  | 3.7 | 3.9 |

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System Number: 295025

|               | System Name: High Reactor Pressure                                                                          |                 | NRC Imp |      | Facility Imp |     |
|---------------|-------------------------------------------------------------------------------------------------------------|-----------------|---------|------|--------------|-----|
| N.            |                                                                                                             | CFR             | RO      | SRO  | RO           | SRO |
| K1            | Knowledge of the operational implications of the following concepts as they apply to HIGH REACTOR PRESSURE: | (41.8 to 41.10) |         |      |              |     |
| EK1.01        | Pressure effects on reactor power                                                                           |                 | 3.9     | 4.0  | 3.9          | 4.0 |
| EK1.02        | Reactor vessel integrity                                                                                    |                 | 4.1     | 4.2  | 4.1          | 4.2 |
| EK1.03        | Safety/relief valve tailpipe temperature/pressure relationships                                             |                 | 3.6     | 3.8  | 3.6          | 3.8 |
| EK1.04        | Decay heat generation                                                                                       |                 | 3.6     | 3.9  | 3.6          | 3.9 |
| EK1.05        | †Exceeding safety limits                                                                                    |                 | 4.4*    | 4.7* | 4.4          | 4.7 |
| EK1.06        | Pressure effects on reactor water level                                                                     |                 | 3.5     | 3.6  | 3.5          | 3.6 |
| К2            | Knowledge of the interrelations between HIGH<br>REACTOR PRESSURE and the following:                         | (41.7, 45.8)    |         |      |              |     |
| EK2.01        | RPS                                                                                                         |                 | 4.1*    | 4.1  | 4.1          | 4.1 |
| EK2.02        | Isolation condenser: Plant-Specific                                                                         |                 | 4.2*    | 4.5* | 4.2          | 4.5 |
| EK2.03        | RRCS: Plant-Specific                                                                                        |                 | 4.0     | 4.3  | 4.0          | 4.3 |
| EK2.04        | ARI/RPT/ATWS: Plant-Specific                                                                                |                 | 3.9     | 4.1* | 3.9          | 4.1 |
| EK2.05        | Safety/relief valves: Plant-Specific                                                                        |                 | 4.1*    | 4.2  | 4.1          | 4.2 |
| EK2.06        | HPC1: Plant-Specific                                                                                        |                 | 3.8     | 3.8  | 3.8          | 3.8 |
| EK2.07        | RCIC: Plant-Specific                                                                                        |                 | 3.7     | 3.7  | 3.7          | 3.7 |
| EK2.08        | Reactor/turbine pressure regulating system: Plant-Specific                                                  |                 | 3.7     | 3.7  | 3.7          | 3.7 |
| <b>⁻K2.09</b> | Reactor power                                                                                               |                 | 3.9     | 3.9  | 3.9          | 3.9 |
| <b>K2.10</b>  | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                                         |                 | 2.9     | 3.2  | 2.9          | 3.2 |
| EK2.11        | Reactor water level                                                                                         |                 | 3.5     | 3.6  | 3.5          | 3.6 |
| К3            | Knowledge of the reasons for the following responses as they apply to HIGH REACTOR PRESSURE:                | (41.5 / 45.6)   |         |      |              |     |
| EK3.01        | Safety/relief valve opening                                                                                 |                 | 4.2     | 4.3* | 4.2          | 4.3 |
| EK3.02        | Recirculation pump trip: Plant-Specific                                                                     |                 | 3.9     | 4.1  | 3.9          | 4.1 |
| EK3.03        | HPC1 operation: Plant-Specific                                                                              |                 | 3.8     | 3.8  | 3.8          | 3.8 |
| EK3.04        | Isolation condenser initiation: Plant-Specific                                                              |                 | 4.5*    | 4.7* | 4.5          | 4.7 |
| EK3.05        | RCIC operation: Plant-Specific                                                                              |                 | 3.6     | 3.7  | 3.6          | 3.7 |
| EK3.06        | Alternate rod insertion: Plant-Specific                                                                     |                 | 4.2*    | 4.4* | 4.2          | 4.4 |
| EK3.07        | <b>†RRCs initiation: Plant-Specific</b>                                                                     |                 | 3.3     | 3.7* | 3.3          | 3.7 |
| EK3.08        | Reactor/turbine pressure regulating system operation                                                        |                 | 3.5     | 3.5  | 3.5          | 3.5 |
| EK3.09        | Low-low set initiation: Plant-Specific                                                                      |                 | 3.7     | 3.7  | 3.7          | 3.7 |

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| System Number: 295025                                                                                                 |      |               |               |
|-----------------------------------------------------------------------------------------------------------------------|------|---------------|---------------|
| System Name: High Reactor Pressure <u>NRC</u>                                                                         | Imp  | <u>Facili</u> | <u>ty I</u> r |
| CFR RO                                                                                                                | SRO  | RO            | •             |
| A1 Ability to operate and/or monitor the following as they (41.7 / 45.6) apply to HIGH REACTOR PRESSURE:              |      |               |               |
| EA1.01 Main steam line drains 2.9                                                                                     | 3.0  | 2.9           | 3.0           |
| EA1.02 Reactor/turbine pressure regulating system 3.8                                                                 | 3.8  | 3.8           | 3.8           |
| EA1.03 Safety/relief valves: Plant-Specific 4.4*                                                                      | 4 4* | 4.4           | 4.4           |
| EA1.04 HPCI: Plant-Specific 3.8                                                                                       | 3.9  | 3.8           | 3.9           |
| EA1.05 RCIC: Plant-Specific 3.7                                                                                       | 3.7  | 3.7           | 3.7           |
| EA1.06 Isolation condenser: Plant-Specific 4.5*                                                                       | 4.5* | 4.5           | 4.5           |
| EA1.07 ARI/RPT/ATWS: Plant-Specific 4.1                                                                               | 4.1  | 4.1           | 4.1           |
| EA1.08 <b>†RRCS: Plant Specific</b> 3.3                                                                               | 3.7* | 3.3           | 3.7           |
| A2 Ability to determine and/or interpret the following as (41.10 / 43.5 / 45.13) they apply to HIGH REACTOR PRESSURE: |      |               |               |
| EA2.01 Reactor pressure 4.3*                                                                                          | 4.3* | 4.3           | 4.3           |
| EA2.02 Reactor power 4.2*                                                                                             | 4.2  | 4.2           | 4.2           |
| EA2.03 Suppression pool temperature 3.9                                                                               | 4.1  | 3.9           | 4.1           |
| EA2.04 Suppression pool level 3.9                                                                                     | 3.9  | 3.9           | 3.9           |
| EA2.05 Decay heat generation 3.4                                                                                      | 3.6  | 3.4           | 3.6           |
| EA2.06 Reactor water level 3.7                                                                                        | 3.8  | 3.7           | 3.8           |

| Facility: CPS |                                                 | Facility: CPS                                                                                                  |                        |      | Printe | d: 08/1 | 1/2006 |
|---------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------|------|--------|---------|--------|
|               | System Number:                                  | 295026                                                                                                         |                        |      |        |         |        |
|               | System Name:                                    | Suppression Pool High Water Temperati                                                                          | ıre                    | NRC  | հաթ    | Facili  | ty Imp |
| <b>~</b>      | <u>ojstem istine</u> t                          | Sably agreed to the second | CFR                    | RO   | SRO    | RO      | SRO    |
| K1            | Knowledge of (                                  | he operational implications of the                                                                             | (41.8 to 41.10)        |      |        |         |        |
|               | following conce<br>POOL HIGH V                  | epts as they apply to SUPPRESSION<br>WATER TEMPERATURE:                                                        | <b>`</b>               |      |        |         |        |
| EK1.01        | Pump NPSH                                       |                                                                                                                |                        | 3.0  | 3.4    | 3.0     | 3.4    |
| EK1.02        | Steam conden                                    | sation                                                                                                         |                        | 3.5  | 3.8    | 3.5     | 3.8    |
| K2            | Knowledge of (<br>POOL HIGH )                   | the interrelations between SUPPRESSION<br>WATER TEMPERATURE and the                                            | (41.7, 45.8)           |      |        |         |        |
|               | following:                                      |                                                                                                                |                        |      |        |         |        |
| EK2.01        | Suppression p                                   | ool cooling                                                                                                    |                        | 3.9  | 4.0    | 3.9     | 4.0    |
| EK2.02        | Suppression pe                                  | ol-spray: Plant-Specific                                                                                       |                        | 3.6  | 3.8    | 3.6     | 3.8    |
| EK2.03        | Suppression ch                                  | amber pressure: Mark-1&II                                                                                      |                        | 3.2  | 3.6    | 3.2     | 3.6    |
| EK2.04        | SPDS/ERIS/C                                     | RIDS/GDS: Plant-Specific                                                                                       |                        | 2.5  | 2.8    | 2.5     | 2.8    |
| EK2.05        | Containment                                     | oressure: Mark-III                                                                                             |                        | 3.0  | 3.3    | 3.0     | 3.3    |
| EK2.06        | Suppression p                                   | ool level                                                                                                      |                        | 3.5  | 3.7    | 3.5     | 3.7    |
| К3            | Knowledge of the they apply to S                | the reasons for the following responses as<br>SUPPRESSION POOL HIGH WATER                                      | (41.5 / 45.6)          |      |        |         |        |
| EK 3 01       | Emil EXALC                                      | rmal depressurization                                                                                          |                        | 38   | 4.1    | 3.8     | 4.1    |
| EK3.07        | Suppression r                                   | and cooling                                                                                                    |                        | 3.9  | 4.0    | 3.9     | 4.0    |
| 13.02         | Suppression p                                   | not energy Plant Specific                                                                                      |                        | 3.5  | 3.8    | 3.5     | 3.8    |
| <b>EV30</b>   | +SBLC inject                                    | ion                                                                                                            |                        | 3.7  | 4.1*   | 3.7     | 4.1    |
| EK3.04        | Reactor SCR                                     | AM                                                                                                             |                        | 3.9  | 4.1    | 3.9     | 4.1    |
|               |                                                 |                                                                                                                |                        |      |        |         |        |
| A1            | Ability to oper<br>apply to SUPP<br>TEMPERATU   | ate and/or monitor the following as they<br>RESSION POOL HIGH WATER<br>JRE:                                    | (41.7 / 45.6)          |      |        |         |        |
| EA1.01        | Suppression r                                   | ool cooling                                                                                                    |                        | 4.1  | 4.1    | 4.1     | 4.1    |
| EA1.02        | Suppression p                                   | ool spray: Plant-Specific                                                                                      |                        | 3.6  | 3.8    | 3.6     | 3.8    |
| EA1.03        | Temperature                                     | monitoring                                                                                                     |                        | 3.9* | 3.9    | 3.9     | 3.9    |
| A2            | Ability to dete<br>they apply to S<br>TEMPERATU | rmine and/or interpret the following as<br>SUPPRESSION POOL HIGH WATER<br>JRE:                                 | (41.10 / 43.5 / 45.13) |      |        |         |        |
| EA2.01        | Suppression r                                   | bool water temperature                                                                                         |                        | 4.1* | 4.2*   | 4.1     | 4.2    |
| EA2.02        | Suppression r                                   | pool level                                                                                                     |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| EA2.03        | Reactor press                                   | ure                                                                                                            |                        | 3.9  | 4.0    | 3.9     | 4.0    |
|               | 1                                               |                                                                                                                |                        |      |        |         |        |

|                     | Facility: CPS                |                                                   | Printed: 08/11/20      |     |     |           |        |
|---------------------|------------------------------|---------------------------------------------------|------------------------|-----|-----|-----------|--------|
|                     | <u>System Number:</u>        | 295027                                            |                        |     |     |           |        |
|                     | System Name                  | High Containment Temperature (Mark I              | п                      | NRC | Imp | Facili    | tv Imn |
|                     | System Mame.                 | Containment Only)                                 | CFR                    | RO  | SRO | RO        | SRC    |
| K1                  | Knowledge of                 | the operational implications of the               | (41.8 to 41.10)        |     |     |           |        |
|                     | following cond               | cepts as they apply to HIGH                       |                        |     |     |           |        |
|                     | CONTAINMI                    | ENT TEMPERATURE (MARK III                         |                        |     |     |           |        |
| <b>FIZ1 61</b>      | CONTAINMI                    | ENT ONLY):                                        |                        | 2.5 | 27  | 2.6       | 27     |
| EK1.01              | Equipment er                 | nvironmental qualifications: Mark-III             |                        | 2.5 | 2.7 | 2.5       | 2.7    |
| EK1.02              | Reactor wate                 | r level measurement: Mark-III                     |                        | 3.0 | 3.2 | 3.0       | 3.2    |
| EK1.03              | Containment                  | integrity: Mark-III                               |                        | 3.8 | 3.8 | 3.8       | 3.8    |
| К2                  | Knowledge of                 | the interrelations between HIGH                   | (41.7, 45.8)           |     |     |           |        |
|                     | CONTAINM                     | ENT TEMPERATURE (MARK III                         |                        |     |     |           |        |
|                     | CONTAINMI                    | ENT ONLY) and the following:                      |                        |     |     |           | • •    |
| EK2.01              | Containment                  | spray: Plant-Specific                             |                        | 3.2 | 3.4 | 3.2       | 3.4    |
| EK2.02              | Components                   | internal to the containment: Mark-III             |                        | 3.2 | 3.3 | 3.2       | 3.3    |
| EK2.03              | Containment                  | ventilation/cooling: Mark-III                     |                        | 3.5 | 3.7 | 3.5       | 3.7    |
| EK2.04              | SPDS/ERIS/                   | CRIDS/GDS: Mark-III                               |                        | 2.6 | 3.2 | 2.6       | 3.2    |
| К3                  | Knowledge of                 | the reasons for the following responses as        | (41.5 / 45.6)          |     |     |           |        |
|                     | They apply to I              | HIGH CUNTAINMENT TEMPERATURE                      |                        |     |     |           |        |
| EK2 01              |                              | UNIAINWENT UNLI):                                 |                        | 37  | 38  | 37        | 38     |
| EK3.01              | Emergency of                 | epressurization: Mark-III                         |                        | 2.7 | 2.0 | 3.7       | 3.0    |
| <sup>14</sup> K3.02 | Containment                  | spray: Plant-Specific                             |                        | 2.2 | 3.2 | 3.2<br>27 | 2.2    |
| K3.03               | Reactor SCR                  | AM: Mark-III                                      |                        | 3.7 | 3.7 | 5.7       | 5.7    |
| A1                  | Ability to ope               | rate and/or monitor the following as they         | (41.7 / 45.6)          |     |     |           |        |
|                     | apply to HIG                 | H CONTAINMENT TEMPERATURE                         |                        |     |     |           |        |
|                     | (MARK III C                  | ONTAINMENT ONLY):                                 |                        |     |     |           |        |
| EA1.01              | Containment                  | spray: Plant-Specific                             |                        | 3.2 | 3.4 | 3.2       | 3.4    |
| EA1.02              | Containment                  | ventilation/cooling: Mark-III                     |                        | 3.5 | 3.5 | 3.5       | 3.5    |
| EA1.03              | Emergency d                  | lepressurization: Mark-III                        |                        | 3.5 | 3.8 | 3.5       | 3.8    |
| A2                  | Ability to dete              | ermine and/or interpret the following as          | (41.10 / 43.5 / 45.13) |     |     |           |        |
|                     | they apply to<br>(MARK III C | HIGH CONTAINMENT TEMPERATURE<br>ONTAINMENT ONLY): |                        |     |     |           |        |
| EA2.01              | Containment                  | temperature: Mark-III                             |                        | 3.7 | 3.7 | 3.7       | 3.7    |
| EA2.02              | Containment                  | pressure: Mark-III                                |                        | 3.7 | 3.7 | 3.7       | 3.7    |
| EA2.03              | Reactor pres                 | sure: Mark-III                                    |                        | 3.3 | 3.3 | 3.3       | 3.3    |
| EA2.04              | Containment                  | radiation levels: Mark-III                        |                        | 3.3 | 3.7 | 3.3       | 3.7    |
|                     | - chunninen                  |                                                   |                        |     |     |           |        |

|        | Facility: CPS                                                                                                  |                        |      | Printe | d: 08/1 | 1/2006 |
|--------|----------------------------------------------------------------------------------------------------------------|------------------------|------|--------|---------|--------|
|        | System Number: 295028                                                                                          |                        |      |        |         |        |
|        | System Names High Drywell Temperature                                                                          |                        | NRC  | Imn    | Facili  | v imn  |
|        | System raines ingli Drywen remperative                                                                         | CFR                    | RO   | SRO    | RO      | SRO    |
| K1     | Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL TEMPERATURE: | (41.8 to 41.10)        |      |        |         |        |
| EK1.01 | Reactor water level measurement                                                                                |                        | 3.5  | 3.7    | 3.5     | 3.7    |
| EK1.02 | Equipment environmental qualification                                                                          |                        | 2.9  | 3.1    | 2.9     | 3.1    |
| К2     | Knowledge of the interrelations between HIGH<br>DRYWELL TEMPERATURE and the following:                         | (41.7, 45.8)           |      |        |         |        |
| EK2.01 | †Drywell spray: Mark-1&II                                                                                      |                        | 3.7  | 4.1    | 3.7     | 4.1    |
| EK2.02 | Components internal to the drywell                                                                             |                        | 3.2  | 3.3    | 3.2     | 3.3    |
| EK2.03 | Reactor water level indication                                                                                 |                        | 3.6  | 3,8    | 3.6     | 3.8    |
| EK2.04 | Drywell ventilation                                                                                            |                        | 3.6  | 3.6    | 3.6     | 3.6    |
| EK2.05 | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                                            |                        | 2.3* | 2.5    | 2.3     | 2.5    |
| КЗ     | Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL TEMPERATURE:                | (41.5 / 45.6)          |      |        |         |        |
| EK3.01 | Emergency depressurization                                                                                     |                        | 3.6  | 3.9    | 3.6     | 3.9    |
| EK3.02 | RPV flooding                                                                                                   |                        | 3.5  | 3.8    | 3.5     | 3.8    |
| EK3.03 | +Drywell spray operation: Mark-I&II                                                                            |                        | 3.6  | 3.9    | 3.6     | 3.9    |
| EK3.04 | Increased drywell cooling                                                                                      |                        | 3.6  | 3.8    | 3.6     | 3,8    |
| EK3.05 | Reactor SCRAM                                                                                                  |                        | 3.6  | 3.7    | 3.6     | 3.7    |
| EK3.06 | ADS                                                                                                            |                        | 3.4  | 3.7    | 3.4     | 3.7    |
| A1     | Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE:                     | (41.7 / 45.6)          |      |        |         |        |
| EA1.01 | <del>Drywell spray: Mark-I&amp;∏</del>                                                                         |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| EA1.02 | Drywell ventilation system                                                                                     |                        | 3.9  | 3.8    | 3.9     | 3.8    |
| EA1.03 | Drywell cooling system                                                                                         |                        | 3.9  | 3.9    | 3.9     | 3.9    |
| EA1.04 | Drywell pressure                                                                                               |                        | 3.9  | 4.0    | 3.9     | 4.0    |
| EA1.05 | ADS                                                                                                            |                        | 3.7  | 3.7    | 3.7     | 3.7    |
| A2     | Ability to determine and/or interpret the following as they apply to HIGH DRYWELL TEMPERATURE:                 | (41.10 / 43.5 / 45.13) |      |        |         |        |
| EA2.01 | Drywell temperature                                                                                            |                        | 4.0* | 4.1*   | 4.0     | 4.1    |
| EA2.02 | Reactor pressure                                                                                               |                        | 3.8  | 3.9    | 3.8     | 3.9    |
| EA2.03 | Reactor water level                                                                                            |                        | 3.7  | 3.9    | 3.7     | 3.9    |
| EA2.04 | Drywell pressure                                                                                               |                        | 4.1  | 4.2    | 4.1     | 4.2    |
| EA2.05 | Torus/suppression-chamber-pressure: Plant-Specific                                                             |                        | 3.6  | 3.8    | 3.6     | 3.1    |
| EA2.06 | Torus/suppression chamber air space temperature: Plant-Sp                                                      | ecific                 | 3.4  | 3.7    | 3.4     | 3.'    |

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|            | Facility: CPS                                                                                                  |                        |      | a: 08/11/200€ |        |        |
|------------|----------------------------------------------------------------------------------------------------------------|------------------------|------|---------------|--------|--------|
|            | System Number: 295029                                                                                          |                        |      |               |        |        |
|            | System Name: High Suppression Pool Water Level                                                                 |                        | NRC  | lmn           | Facili | iv Imp |
| <u>`</u> . | System raute. Ingli Suppression Foor mater Sever                                                               | CFR                    | RO   | SRO           | RO     | SRO    |
| К1         | Knowledge of the operational implications of the                                                               | (41.8 to 41.10)        |      |               |        |        |
|            | following concepts as they apply to HIGH<br>SUPPRESSION POOL WATER LEVEL:                                      |                        |      |               |        |        |
| EK1.01     | Containment integrity                                                                                          |                        | 3.4  | 3.7           | 3.4    | 3.7    |
| К2         | Knowledge of the interrelations between HIGH<br>SUPPRESSION POOL WATER LEVEL and the<br>following:             | (41.7, 45.8)           |      |               |        |        |
| EK3 01     | рнрл рсі                                                                                                       |                        | 3.0  | 33            | 3.0    | 33     |
| EK2.01     | HPC1- Plant-Specific                                                                                           |                        | 3.4  | 3.6           | 3.4    | 3.6    |
| EK2.02     | HPCS: Plant-Specific                                                                                           |                        | 3.3  | 3.5           | 3.3    | 3.5    |
| FK2.04     | Suppression pool cleanup system: Plant-Specific                                                                |                        | 2.4* | 2.4*          | 2.4    | 2.4    |
| EK2.05     | Containment/drywell vacuum breakers                                                                            |                        | 3.1  | 3.3           | 3.1    | 3.3    |
| EK2.06     | SRV's and discharge piping                                                                                     |                        | 3.4  | 3.5           | 3.4    | 3.5    |
| EK2.07     | Drywell/containment water level                                                                                |                        | 3.1  | 3.2           | 3.1    | 3.2    |
| EK2.08     | Drywell/suppression chamber ventilation                                                                        |                        | 2.6  | 2.9           | 2.6    | 2.9    |
| EK2.09     | RCIC: Plant-Specific                                                                                           |                        | 3.1  | 3.2           | 3.1    | 3.2    |
| КЗ         | Knowledge of the reasons for the following responses as<br>they apply to HIGH SUPPRESSION POOL WATER<br>LEVEL: | (41.5 / 45.6)          |      |               |        |        |
| K3.01      | Emergency depressurization                                                                                     |                        | 3.5  | 3.9*          | 3.5    | 3.9    |
| EK3.02     | Lowering suppression pool water level                                                                          |                        | 3.6  | 4.0           | 3.6    | 4.0    |
| EK3.03     | Reactor SCRAM                                                                                                  |                        | 3.4  | 3.5           | 3.4    | 3.5    |
| A1         | Ability to operate and/or monitor the following as they apply to HIGH SUPPRESSION POOL WATER LEVE              | (41.7 / 45.6)<br>L:    |      |               |        |        |
| EA1.01     | HPCI: Plant-Specific                                                                                           |                        | 3.4* | 3.5           | 3.4    | 3.5    |
| EA1.02     | HPCS: Plant-Specific                                                                                           |                        | 3.1  | 3.1           | 3.1    | 3.1    |
| EA1.03     | RHR/LPC1                                                                                                       |                        | 2.9  | 3.0           | 2.9    | 3.0    |
| EA1.04     | RCIC: Plant-Specific                                                                                           |                        | 3.4  | 3.5           | 3.4    | 3.5    |
| A2         | Ability to determine and/or interpret the following as<br>they apply to HIGH SUPPRESSION POOL WATER<br>LEVEL:  | (41.10 / 43.5 / 45.13) |      |               |        |        |
| EA2.01     | Suppression pool water level                                                                                   |                        | 3.5* | 3.9*          | 3.5    | 3.9    |
| EA2.02     | Reactor pressure                                                                                               |                        | 3.5  | 3.6           | 3.5    | 3.6    |
| EA2.03     | Drywell/containment water level                                                                                |                        | 3.4  | 3.5           | 3.4    | 3.5    |
|            |                                                                                                                |                        |      |               |        |        |

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|        | Facility: CPS                                                                                                          |                      | Printed: 08/11/2 |      |        |        |  |
|--------|------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|------|--------|--------|--|
|        | System Number: 295030                                                                                                  |                      |                  |      |        |        |  |
|        | System Name: Low Suppression Pool Water Level                                                                          |                      | NRC              | Imn  | Facili | tv Imn |  |
|        | <u>orsten tyme</u> . Dow Suppression 7 oor water bever                                                                 | CFR                  | RO               | SRO  | RO     | SRO    |  |
| KI     | Knowledge of the operational implications of the following concepts as they apply to LOW SUPPRESSION POOL WATER LEVEL: | (41.8 to 41.10)<br>N |                  |      |        |        |  |
| EK1.01 | Steam condensation                                                                                                     |                      | 3.8*             | 4.1* | 3.8    | 4.1    |  |
| EK1.02 | Pump NPSH                                                                                                              |                      | 3.5              | 3.8  | 3.5    | 3.8    |  |
| EK1.03 | Heat capacity                                                                                                          |                      | 3.8              | 4.1* | 3.8    | 4.1    |  |
| К2     | Knowledge of the interrelations between LOW<br>SUPPRESSION POOL WATER LEVEL and the<br>following:                      | (41.7, 45.8)         |                  |      |        |        |  |
| EK2.01 | HPCI: Plant-Specific                                                                                                   |                      | 3.8              | 3.9  | 3.8    | 3.9    |  |
| EK2.02 | RCIC: Plant-Specific                                                                                                   |                      | 3.7              | 3.8  | 3.7    | 3.8    |  |
| EK2.03 | LPCS                                                                                                                   |                      | 3.8              | 3.9  | 3.8    | 3.9    |  |
| EK2 04 | RHR/LPCI                                                                                                               |                      | 3.7              | 3.8  | 3.7    | 3.8    |  |
| EK2 05 | HPCS: Plant-Specific                                                                                                   |                      | 3.8              | 3.9  | 3.8    | 3.9    |  |
| EK2.06 | Suppression pool make-up: Mark-III                                                                                     |                      | 3.9*             | 3.9* | 3.9    | 3.9    |  |
| EK2.07 | Downcomer/ horizontal vent submergence                                                                                 |                      | 3.5              | 3.8  | 3.5    | 3.8    |  |
| EK2.08 | SRV discharge submergence                                                                                              |                      | 3.5              | 3.8  | 3.5    | 3.8    |  |
| EK2.09 | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                                                    |                      | 2.5              | 2.8  | 2.5    | 2.8    |  |
| К3     | Knowledge of the reasons for the following responses as<br>they apply to LOW SUPPRESSION POOL WATER<br>LEVEL:          | (41.5 / 45.6)        |                  |      |        |        |  |
| EK3.01 | Emergency depressurization                                                                                             |                      | 3.8              | 4.1  | 3.8    | 4.1    |  |
| EK3.02 | HPCI operation: Plant-Specific                                                                                         |                      | 3.5              | 3.7  | 3.5    | 3.7    |  |
| EK3.03 | RCIC operation: Plant-Specific                                                                                         |                      | 3.6              | 3.7  | 3.6    | 3.7    |  |
| EK3.04 | HPCS operation: Plant-Specific                                                                                         |                      | 3.5              | 3.5  | 3.5    | 3.5    |  |
| EK3.05 | Suppression pool make-up operation: Mark-III                                                                           |                      | 3.6              | 3.6  | 3.6    | 3.6    |  |
| EK3.06 | Reactor SCRAM                                                                                                          |                      | 3.6              | 3.8  | 3.6    | 3.8    |  |
| EK3.07 | NPSH considerations for ECCS pumps                                                                                     |                      | 3.5              | 3.8  | 3.5    | 3.8    |  |
| A1     | Ability to operate and/or monitor the following as they apply to LOW SUPPRESSION POOL WATER LEVEL                      | (41.7 / 45.6)<br>:   |                  |      |        |        |  |
| EA1.01 | ECCS systems (NPSH considerations): Plant-Specific                                                                     |                      | 3.6              | 3.8  | 3.6    | 3.8    |  |
| EA1.02 | RCIC: Plant-Specific                                                                                                   |                      | 3.4              | 3.5  | 3.4    | 3.5    |  |
| EA1.03 | HPCS: Plant-Specific                                                                                                   |                      | 3.4              | 3.4  | 3.4    | 3.4    |  |
| EA1.04 | Suppression pool make-up system: Mark-III                                                                              |                      | 4.0              | 4.0  | 4.0    | 4.0    |  |
| EA1.05 | HPCI                                                                                                                   |                      | 3.5              | 3.5  | 3.5    | 3.5    |  |
| EA1.06 | Condensate storage and transfer (make-up to the suppression pool): Plant-Specific                                      |                      | 3.4              | 3.4  | 3.4    | 3.4    |  |

|        | Facility: CPS                                 |                                                                     |                        |      | Printe | ed: 08/1      | 1/2006     |
|--------|-----------------------------------------------|---------------------------------------------------------------------|------------------------|------|--------|---------------|------------|
|        | <u>System Number:</u>                         | 295030                                                              |                        |      |        |               |            |
|        | System Name:                                  | Low Suppression Pool Water Level                                    |                        | NRC  | Imp    | <u>Facili</u> | ty I       |
|        |                                               |                                                                     | CFR                    | RO   | SRO    | RO            | ار.<br>میں |
| A2     | Ability to deter<br>they apply to L<br>LEVEL: | mine and/or interpret the following as<br>OW SUPPRESSION POOL WATER | (41.10 / 43.5 / 45.13) |      |        |               |            |
| EA2.01 | Suppression p                                 | ool level                                                           |                        | 4.1* | 4.2*   | 4.1           | 4.2        |
| EA2.02 | Suppression p                                 | ool temperature                                                     |                        | 3.9  | 3.9    | 3.9           | 3.9        |
| EA2.03 | Reactor pressu                                | ire                                                                 |                        | 3.7  | 3.9    | 3.7           | 3.9        |
| EA2.04 | Drywell/-suppr                                | ession chamber differential pressure: Mark-                         | <del>l&amp;II</del>    | 3.5  | 3.7    | 3.5           | 3.7        |

|   | Facility: CPS |                                                 |                                                                                | Printed: 08/11/2 |      |      |        |        |
|---|---------------|-------------------------------------------------|--------------------------------------------------------------------------------|------------------|------|------|--------|--------|
|   |               | System Number:                                  | 295031                                                                         |                  |      |      |        |        |
|   |               | System Name                                     | Reactor Low Water Level                                                        |                  | NRC  | Imn  | Facili | tv Imn |
|   |               | System Mante:                                   | Reactor Low Water Level                                                        | CFR              | RO   | SRO  | RO     | SRO    |
|   | K1            | Knowledge of 1<br>following conce<br>WATER LEVI | he operational implications of the<br>epts as they apply to REACTOR LOW<br>EL: | (41.8 to 41.10)  |      |      |        |        |
|   | EK1.01        | Adequate core                                   | e cooling.                                                                     |                  | 4.6* | 4.7* | 4.6    | 4.7    |
|   | EK1.02        | Natural circul                                  | ation: Plant-Specific                                                          |                  | 3.8  | 4.1  | 3.8    | 4.1    |
|   | EK1.03        | Water level ef                                  | fects on reactor power                                                         |                  | 3.7  | 4.1  | 3.7    | 4.1    |
|   | K2            | Knowledge of t<br>LOW WATER                     | the interrelations between REACTOR                                             | (41.7, 45.8)     |      |      |        |        |
|   | EK2.01        | Reactor water                                   | level indication                                                               |                  | 4.4* | 4.4* | 4.4    | 4.4    |
|   | EK2.02        | Reactor press                                   | are                                                                            |                  | 3.8  | 3.9  | 3.8    | 3.9    |
|   | EK2.03        | Low pressure                                    | core spray                                                                     |                  | 4.2  | 4.3* | 4.2    | 4.3    |
| • | EK2.04        | Reactor core i                                  | solation cooling: Plant-Specific                                               |                  | 4.0  | 4.1  | 4.0    | 4.1    |
|   | EK2.05        | Low pressure                                    | coolant injection (RHR)                                                        |                  | 4.2  | 4.3  | 4.2    | 4.3    |
|   | EK2.06        | High pressure<br>Plant-Specific                 | (feedwater) coolant injection (FWC1/HPC1):-                                    |                  | 4.1  | 4.2  | 4.1    | 4.2    |
|   | EK2.07        | High pressure                                   | core spray: Plant-Specific                                                     |                  | 4.0  | 4.1  | 4.0    | 4.1    |
|   | EK2.08        | Automatic de                                    | pressurization system                                                          |                  | 4.2* | 4.3* | 4.2    | 4.3    |
|   | EK2.09        | Recirculation                                   | system: Plant-Specific                                                         |                  | 3.3  | 3.4  | 3.3    | 3.4    |
|   | EK2.10        | Redundant rea                                   | activity control: Plant-Specific                                               |                  | 4.0  | 4.0  | 4.0    | 4.0    |
|   | EK2.11        | Reactor Prote                                   | ction System                                                                   |                  | 4.4* | 4.4* | 4.4    | 4.4    |
|   | EK2.12        | Primary conta<br>supply shutof                  | inment isolation system/ Nuclear steam                                         |                  | 4.5* | 4.5* | 4.5    | 4.5    |
|   | EK2.13        | ARI/RPT/AT                                      | WS: Plant-Specific                                                             |                  | 4.1  | 4.2  | 4.1    | 4.2    |
|   | EK2.14        | Emergency ge                                    | enerators                                                                      |                  | 3.9  | 4.0  | 3.9    | 4.0    |
|   | EK2.15        | A.C. distribut                                  | ion: Plant-Specific                                                            |                  | 3.2  | 3.2  | 3.2    | 3.2    |
|   | EK2.16        | Reactor water                                   | level control                                                                  |                  | 4.1* | 4.1  | 4.1    | 4.1    |
|   | K3            | Knowledge of<br>they apply to F                 | the reasons for the following responses as REACTOR LOW WATER LEVEL:            | (41.5 / 45.6)    |      |      |        |        |
|   | EK3.01        | Automatic de                                    | pressurization system actuation                                                |                  | 3.9  | 4.2* | 3.9    | 4.2    |
|   | EK3.02        | Core coverage                                   | e                                                                              |                  | 4.4* | 4.7* | 4.4    | 4.7    |
|   | EK3.03        | Spray cooling                                   | 5                                                                              |                  | 4.1  | 4.4* | 4.1    | 4.4    |
|   | EK3.04        | Steam cooling                                   | 2                                                                              |                  | 4.0  | 4.3* | 4.0    | 4.3    |
|   | EK3.05        | Emergency d                                     | epressurization                                                                |                  | 4.2* | 4.3* | 4.2    | 4.3    |

| Facility: | CPS |
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EA2.03

EA2.04

Reactor pressure

Adequate core cooling

4.6\*

4.8\*

4.6

4.8

|        | System Number:                      | 295031                                                            |                        |         |      |              |     |
|--------|-------------------------------------|-------------------------------------------------------------------|------------------------|---------|------|--------------|-----|
|        | System Name:                        | Reactor Low Water Level                                           |                        | NRC Imp |      | Facility Im- |     |
|        |                                     |                                                                   | CFR                    | RO      | SRO  | RO           | S   |
| A1     | Ability to oper-<br>apply to REAC   | ate and/or monitor the following as they<br>CTOR LOW WATER LEVEL: | (41.7 / 45.6)          |         |      |              |     |
| EA1.01 | Low pressure                        | coolant injection (RHR): Plant-Specific                           |                        | 4,4*    | 4.4* | 4.4          | 4.4 |
| EA1.02 | High-pressure                       | (feedwater) coolant injection: Plant-Specific                     |                        | 4.5*    | 4.5* | 4.5          | 4.5 |
| EA1.03 | Low pressure                        | core spray                                                        |                        | 44*     | 4.4* | 4.4          | 4.4 |
| EA1.04 | High pressure                       | core spray: Plant-Specific                                        |                        | 4.3*    | 4.2  | 4.3          | 4.2 |
| EA1.05 | Reactor core i                      | solation system: Plant-Specific                                   |                        | 4.3*    | 4.3* | 4.3          | 4.3 |
| EA1.06 | Automatic der                       | pressurization system                                             |                        | 44*     | 4.4* | 4.4          | 4.4 |
| EA1.07 | Safety/relief v                     | alves                                                             |                        | 3.7*    | 3.7* | 3.7          | 3.7 |
| EA1.08 | Alternate inje                      | ction systems: Plant-specific                                     |                        | 3.8     | 3.9  | 3.8          | 3.9 |
| EA1.09 | Isolation-conde                     | mser: Plant-Specific                                              |                        | 3.3*    | 3.5* | 3.3          | 3.5 |
| EA1.10 | Control rod dr                      | ive                                                               |                        | 3.6     | 3.7  | 3.6          | 3.7 |
| EA1.11 | Condensate                          |                                                                   |                        | 4.1     | 4.1  | 4.1          | 4.1 |
| EA1.12 | Feedwater                           |                                                                   |                        | 3.9     | 4.1* | 3.9          | 4.1 |
| EA1.13 | Reactor water                       | level control                                                     |                        | 4.3*    | 4.3* | 4.3          | 4.3 |
| A2     | Ability to deter<br>they apply to R | mine and/or interpret the following as                            | (41.10 / 43.5 / 45.13) |         |      |              |     |
| EA2.01 | Reactor water                       | level                                                             |                        | 4.6*    | 4.6* | 4.6          | 4.6 |
| EA2.02 | Reactor powe                        | <br>r                                                             |                        | 4.0     | 4.2* | 4.0          | 4.2 |
| EA2.03 | Reactor press                       | Jre                                                               |                        | 4.2*    | 4.2* | 4.2          | 4.2 |

|            | Facility: CPS                                      |                                                                                   |                        | Printed: 08/11/2006 |      |        |        |  |
|------------|----------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|---------------------|------|--------|--------|--|
|            | System Number:                                     | 295032                                                                            |                        |                     |      |        |        |  |
|            | System Name: High Secondary Containment Area Tempe |                                                                                   | perature               | NRC Imn             |      | Facili | ty Imp |  |
|            |                                                    | 2                                                                                 | CFR                    | RO                  | SRO  | RO     | SRO    |  |
| KI         | Knowledge of t                                     | he operational implications of the                                                | (41.8 to 41.10)        |                     |      |        |        |  |
|            | following conce<br>CONTAINME                       | pts as they apply to HIGH SECONDARY<br>NT AREA TEMPERATURE:                       | . ,                    |                     |      |        |        |  |
| EK1.01     | Personnel prot                                     | ection                                                                            |                        | 3.6                 | 3.8  | 3.6    | 3.8    |  |
| EK1.02     | †Radiation rel                                     | eases                                                                             |                        | 3.6                 | 4.0  | 3.6    | 4.0    |  |
| EK1.03     | Secondary con                                      | tainment leakage detection: Plant-Specific                                        |                        | 3 5                 | 39   | 35     | 39     |  |
| EK1.04     | Impact of oper                                     | ating environment on components                                                   |                        | 3.1                 | 3.6  | 3.1    | 3.6    |  |
| К2         | Knowledge of t<br>SECONDARY                        | he interrelations between HIGH<br>CONTAINMENT AREA                                | (41.7, 45.8)           |                     |      |        |        |  |
| TVO OI     | I EMPERATU.                                        | KE and the following:                                                             |                        | 2.5                 | 2.4  | 25     | 2.6    |  |
| EK2.01     | Area/room coo                                      | biers di la citati                                                                |                        | 3.5                 | 3.6  | 3.5    | 3.6    |  |
| EK2.02     | Secondary con                                      | tainment ventilation                                                              |                        | 3.6                 | 3.7  | 3.6    | 3.7    |  |
| EK2.03     | Fire protection                                    | system                                                                            |                        | 3.3                 | 3.4  | 3.3    | 3.4    |  |
| EK2.04     | PUIS/INSSSS                                        |                                                                                   |                        | 3.0                 | 3.8  | 3.0    | 3.8    |  |
| EK2.05     | 1 emperature s                                     |                                                                                   |                        | 3.2                 | 3.4  | 3.2    | 3.4    |  |
| EK2.00     | Area temperati                                     | are monitoring system                                                             |                        | 3.3                 | 3.4  | 3.3    | 3.4    |  |
| EK2.07     | Leak detection                                     | system concept: Plant-Specific                                                    |                        | 3.0<br>2.0          | 3.8  | 3.0    | 3.8    |  |
| EK2.08     | Systems requi                                      | ed for sale shut-down                                                             |                        | 3.8                 | 3.9  | 3.8    | 3.9    |  |
| <b>Қ</b> 3 | Knowledge of t<br>they apply to H<br>AREA TEMPE    | he reasons for the following responses as<br>IGH SECONDARY CONTAINMENT<br>RATURE: | (41.5 / 45.6)          |                     |      |        |        |  |
| EK3.01     | Emergency/no                                       | rmal depressurization                                                             |                        | 3.5                 | 3.8  | 3.5    | 3.8    |  |
| EK3.02     | Reactor SCRA                                       | Μ                                                                                 |                        | 3.6                 | 3.8  | 3.6    | 3.8    |  |
| EK3.03     | Isolating affec                                    | ted systems                                                                       |                        | 3.8                 | 3.9* | 3.8    | 3.9    |  |
| A1         | Ability to opera<br>apply to HIGH<br>TEMPERATU     | te and/or monitor the following as they<br>SECONDARY CONTAINMENT AREA<br>RE:      | (41.7 / 45.6)          |                     |      |        |        |  |
| EA1.01     | Area temperat                                      | ure monitoring system                                                             |                        | 3.6                 | 3.7  | 3.6    | 3.7    |  |
| EA1.02     | Leak detection                                     | system concept: Plant-Specific                                                    |                        | 3.4                 | 3.5  | 3.4    | 3.5    |  |
| EA1.03     | Secondary con                                      | tainment ventilation                                                              |                        | 3.7                 | 3.7  | 3.7    | 3.7    |  |
| EA1.04     | Fire protection                                    | system                                                                            |                        | 3.3                 | 3.4  | 3.3    | 3.4    |  |
| EA1.05     | Affected syste                                     | ms so as to isolate damaged portions                                              |                        | 3.7                 | 3.9  | 3.7    | 3.9    |  |
| A2         | Ability to deter<br>they apply to H<br>AREA TEMPE  | mine and/or interpret the following as<br>IGH SECONDARY CONTAINMENT<br>RATURE:    | (41.10 / 43.5 / 45.13) |                     |      |        |        |  |
| EA2.01     | Area temperat                                      | ure                                                                               |                        | 3.8*                | 3.8  | 3.8    | 3.8    |  |
| EA2.02     | Equipment op                                       | erability                                                                         |                        | 3.3                 | 3.5  | 3.3    | 3.5    |  |
| EA2.03     | Cause of high                                      | area temperature                                                                  |                        | 3.8                 | 4.0  | 3.8    | 4.0    |  |

|          | Facility: CPS                                          |                                                                                                          | Printed: 08/11/200     |            |            |     |     |
|----------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------|------------|------------|-----|-----|
|          | System Number:                                         | 295033                                                                                                   |                        |            |            |     |     |
|          | System Name: High Secondary Containment Area Radiation |                                                                                                          | <u>NRC</u>             | <u>lmp</u> | Facility I |     |     |
| <b>`</b> |                                                        | Levels                                                                                                   | CFR                    | RO         | SRO        | RO  | SRO |
| K1       | Knowledge of t<br>following conce<br>CONTAINME         | the operational implications of the<br>epts as they apply to HIGH SECONDARY<br>NT AREA RADIATION LEVELS: | (41.8 to 41.10)        |            |            |     |     |
| EK1.01   | Component er                                           | vironmental qualifications                                                                               |                        | 2.4        | 2.8*       | 2.4 | 2.8 |
| EK1.02   | Personnel prot                                         | tection                                                                                                  |                        | 3.9        | 4.2*       | 3.9 | 4.2 |
| EK1.03   | †Radiation rel                                         | eases                                                                                                    |                        | 3.9        | 4.2*       | 3.9 | 4.2 |
| К2       | Knowledge of t<br>SECONDARY<br>LEVELS and t            | the interrelations between HIGH<br>CONTAINMENT AREA RADIATION<br>the following:                          | (41.7, 45.8)           |            |            |     |     |
| EK2 01   | Area radiation                                         | monitoring system                                                                                        |                        | 3.8        | 4.0        | 3.8 | 4.0 |
| EK2.02   | Process radiat                                         | ion monitoring system                                                                                    |                        | 3.8        | 4.1        | 3.8 | 4.1 |
| EK2.03   | Secondary con                                          | ntainment ventilation: Plant-Specific                                                                    |                        | 3.7        | 3.9        | 3.7 | 3.9 |
| EK2.04   | Standby gas tr                                         | reatment system/FRVS                                                                                     |                        | 3.9        | 4.2        | 3.9 | 4.2 |
| КЗ       | Knowledge of a<br>they apply to H<br>AREA RADIA        | the reasons for the following responses as<br>HGH SECONDARY CONTAINMENT<br>TION LEVELS:                  | (41.5 / 45.6)          |            |            |     |     |
| EK3.01   | Emergency de                                           | epressurization                                                                                          |                        | 3,3        | 3.5        | 3.3 | 3.5 |
| EK3.02   | Reactor SCRA                                           | ÂM                                                                                                       |                        | 3.5        | 3.6        | 3.5 | 3.6 |
| ⊡K3.03   | Isolating affect                                       | cted systems                                                                                             |                        | 3.8        | 3.9        | 3.8 | 3.9 |
| K3.04    | Personnel eva                                          | cuation                                                                                                  |                        | 4.0        | 4.4*       | 4.0 | 4.4 |
| EK3.05   | †Emergency p                                           | olan                                                                                                     |                        | 3.6        | 4.5*       | 3.6 | 4.5 |
| A1       | Ability to oper<br>apply to HIGH<br>RADIATION 1        | ate and/or monitor the following as they<br>I SECONDARY CONTAINMENT AREA<br>LEVELS:                      | (41.7 / 45.6)          |            |            |     |     |
| EA1.01   | Area radiatior                                         | n monitoring system                                                                                      |                        | 3.9        | 4.0        | 3.9 | 4.0 |
| EA1.02   | Process radiat                                         | ion monitoring system                                                                                    |                        | 3.7        | 3.8        | 3.7 | 3.8 |
| EA1.03   | Secondary co                                           | ntainment ventilation                                                                                    |                        | 3.8        | 3.8        | 3.8 | 3.8 |
| EA1.04   | SBGT/FRVS                                              |                                                                                                          |                        | 4.2*       | 4.2        | 4.2 | 4.2 |
| EA1.05   | Affected syste                                         | ems so as to isolate damaged portions                                                                    |                        | 3.9        | 4.0        | 3.9 | 4.0 |
| EA1.06   | Portable radia                                         | tion monitoring instruments                                                                              |                        | 2.9*       | 3.1*       | 2.9 | 3.1 |
| EA1.07   | Personnel dos                                          | imetry                                                                                                   |                        | 3.5        | 3.6        | 3.5 | 3.6 |
| EA1.08   | Control room                                           | ventilation: Plant-Specific                                                                              |                        | 3.6        | 3.8        | 3.6 | 3.8 |
| A2       | Ability to deter<br>they apply to F<br>AREA RADIA      | rmine and/or interpret the following as<br>HGH SECONDARY CONTAINMENT<br>TION LEVELS:                     | (41.10 / 43.5 / 45.13) |            |            |     |     |
| EA2.01   | Area radiation                                         | n levels                                                                                                 |                        | 3.8        | 3.9        | 3.8 | 3.9 |
| EA2.02   | Equipment on                                           | perability                                                                                               |                        | 3.1        | 3.2        | 3.1 | 3.2 |
| EA2.03   | †Cause of hig                                          | h area radiation                                                                                         |                        | 3.7        | 4.2        | 3.7 | 4.2 |
|          | •                                                      |                                                                                                          |                        |            |            |     |     |

|         | Facility: CPS                                     |                                                                                                         |                        | Printed: 08/11/2006 |      |               |        |  |
|---------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------|---------------------|------|---------------|--------|--|
|         | System Number:                                    | 295034                                                                                                  |                        |                     |      |               |        |  |
|         | <u>System Name:</u>                               | Secondary Containment Ventilation Higl                                                                  | 1                      | NRC                 | Imp  | <u>Facili</u> | ty Imp |  |
| -       |                                                   | Radiation                                                                                               | CFR                    | RO                  | SRO  | RO            | SRO    |  |
| K1      | Knowledge of t<br>following conce<br>CONTAINME    | he operational implications of the<br>epts as they apply to SECONDARY<br>NT VENTILATION HIGH RADIATION: | (41.8 to 41.10)        |                     |      |               |        |  |
| EK1.01  | Personnel prot                                    | tection                                                                                                 |                        | 3.8                 | 4.1  | 3.8           | 4.1    |  |
| EK1.02  | †Radiation rel                                    | eases                                                                                                   |                        | 4.1                 | 4.4* | 4.1           | 4.4    |  |
| К2      | Knowledge of t<br>CONTAINME<br>and the followi    | the interrelations between SECONDARY<br>NT VENTILATION HIGH RADIATION<br>ng:                            | (41.7, 45.8)           |                     |      |               |        |  |
| EK2.01  | Process radiat                                    | ion monitoring system                                                                                   |                        | 3.9                 | 4.2  | 3.9           | 4.2    |  |
| EK2.02  | Area radiation                                    | monitoring system                                                                                       |                        | 3.8                 | 3.9  | 3.8           | 3.9    |  |
| EK2.03  | SBGT/FRVS:                                        | Plant-Specific                                                                                          |                        | 4.3*                | 4.5* | 4.3           | 4.5    |  |
| EK2.04  | Secondary cor                                     | ntainment ventilation                                                                                   |                        | 3.9                 | 3.9  | 3.9           | 3.9    |  |
| EK2.05  | Fuel building                                     | ventilation: Mark-III                                                                                   |                        | 3.5                 | 3.7  | 3.5           | 3.7    |  |
| EK2.06  | PCIS/NSSSS:                                       | Plant-Specific                                                                                          |                        | 3.9                 | 4.2  | 3.9           | 4.2    |  |
| К3      | Knowledge of t<br>they apply to S<br>VENTILATIO   | the reasons for the following responses as<br>ECONDARY CONTAINMENT<br>N HIGH RADIATION:                 | (41.5 / 45.6)          |                     |      |               |        |  |
| EK3.01  | Isolating seco                                    | ndary containment ventilation                                                                           |                        | 3.8                 | 4.1  | 3.8           | 4.1    |  |
| 5K3.02  | Starting SBG                                      | I/FRVS: Plant-Specific                                                                                  |                        | 4.1                 | 4.1  | 4.1           | 4.1    |  |
| .≟K3.03 | Personnel eva                                     | cuation                                                                                                 |                        | 4.0*                | 4.4* | 4.0           | 4.4    |  |
| EK3.04  | Fuel building                                     | ventilation: Plant-Specific                                                                             |                        | 3.7                 | 3.8  | 3.7           | 3.8    |  |
| EK3.05  | Manual SCRA                                       | AM and depressurization: Plant-Specific                                                                 |                        | 3.6                 | 3.9  | 3.6           | 3.9    |  |
| A1      | Ability to oper<br>apply to SECO<br>VENTILATIO    | ate and/or monitor the following as they<br>NDARY CONTAINMENT<br>N HIGH RADIATION:                      | (41.7 / 45.6)          |                     |      |               |        |  |
| EA1.01  | Area radiation                                    | n monitoring system                                                                                     |                        | 3.8                 | 3.8  | 3.8           | 3.8    |  |
| EA1.02  | Process radiat                                    | ion monitoring system                                                                                   |                        | 3.9                 | 4.0  | 3.9           | 4.0    |  |
| EA1.03  | Secondary con                                     | ntainment ventilation                                                                                   |                        | 4.0                 | 3.9  | 4.0           | 3.9    |  |
| EA1.04  | SBGT/FRVS:                                        | Plant-Specific                                                                                          |                        | 4.1*                | 4.2* | 4.1           | 4.2    |  |
| EA1.05  | Fuel building                                     | ventilation: Plant-Specific                                                                             |                        | 3.8                 | 3.8  | 3.8           | 3.8    |  |
| A2      | Ability to deter<br>they apply to S<br>VENTILATIO | rmine and/or interpret the following as<br>SECONDARY CONTAINMENT<br>ON HIGH RADIATION:                  | (41.10 / 43.5 / 45.13) |                     |      |               |        |  |
| EA2.01  | Ventilation ra                                    | diation levels                                                                                          |                        | 3.8                 | 4.2  | 3.8           | 4.2    |  |
| EA2.02  | Cause of high                                     | radiation levels                                                                                        |                        | 3.7                 | 4.2* | 3.7           | 4.2    |  |
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|        | Facility: CPS                                   |                                                                                         |                 | Print |      | ed: 08/11/200 |        |
|--------|-------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|-------|------|---------------|--------|
|        | System Number:                                  | 295035                                                                                  |                 |       |      |               |        |
|        | System Name:                                    | Secondary Containment High Differentia                                                  | ıl              | NRC   | Imn  | Facili        | ty Imp |
|        | <u>210.444 </u>                                 | Pressure                                                                                | CFR             | RO    | SRO  | RO            | SRO    |
| K1     | Knowledge of                                    | the operational implications of the                                                     | (41.8 to 41.10) |       |      |               |        |
|        | following conc                                  | epts as they apply to SECONDARY                                                         |                 |       |      |               |        |
|        | CONTAINME                                       | NT HJGH DIFFERENTIAL PRESSURE:                                                          |                 |       |      | • •           |        |
| EK1.01 | Secondary co                                    | ntainment integrity                                                                     |                 | 3.9   | 4.2* | 3.9           | 4.2    |
| EK1.02 | †Radiation re                                   | lease                                                                                   |                 | 3.7   | 4.2  | 3.7           | 4.2    |
| К2     | Knowledge of                                    | the interrelations between SECONDARY                                                    | (41.7, 45.8)    |       |      |               |        |
|        | CONTAINME                                       | NT HIGH DIFFERENTIAL PRESSURE                                                           |                 |       |      |               |        |
| FK2 01 | Secondary co                                    | ntg.                                                                                    |                 | 3.6   | 3.6  | 3.6           | 3.6    |
| EK2.02 | SBGT/FRVS                                       |                                                                                         |                 | 3.6   | 3.8  | 3.6           | 3.8    |
| EK2.03 | †Off-site rele                                  | ase rate                                                                                |                 | 3.3   | 4.1  | 3.3           | 4.1    |
| EK2.04 | Blow-out pane                                   | ls: Plant-Specific                                                                      |                 | 3.3   | 3.7  | 3.3           | 3.7    |
| КЗ     | Knowledge of<br>they apply to S<br>DIFFERENTI   | the reasons for the following responses as<br>ECONDARY CONTAINMENT HIGH<br>AL PRESSURE: | (41.5 / 45.6)   |       |      |               |        |
| EK3.01 | Blow-out pane                                   | l operation: Plant-Specific                                                             |                 | 2.8   | 3.1  | 2.8           | 3.1    |
| EK3.02 | Secondary co                                    | ntainment ventilation response                                                          |                 | 3.3   | 3.5  | 3.3           | 3.5    |
| Al     | Ability to oper<br>apply to SECC<br>DIFFERENTI  | ate and/or monitor the following as they<br>NDARY CONTAINMENT HIGH<br>AL PRESSURE:      | (41.7 / 45.6)   |       |      |               |        |
| EA1.01 | Secondary co                                    | ntainment ventilation system                                                            |                 | 3.6   | 3.6  | 3.6           | 3.6    |
| EA1.02 | SBGT/FRVS                                       |                                                                                         |                 | 3.8   | 3.8  | 3.8           | 3.8    |
| A2     | Ability to detend they apply to S<br>DIFFERENTI | rmine and/or interpret the following as<br>ECONDARY CONTAINMENT HIGH<br>AL PRESSURE:    | (41.8 to 41.10) |       |      |               |        |
| EA2.01 | Secondary co                                    | ntainment pressure: Plant-Specific                                                      |                 | 3.8   | 3.9  | 3.8           | 3.9    |
| EA2.02 | †Off-site rele                                  | ase rate: Plant-Specific                                                                |                 | 2.8*  | 4.1  | 2.8           | 4.1    |
|        |                                                 |                                                                                         |                 |       |      |               |        |

|        | Facility:                           | CPS                          |                                                                                                 |                 |        |      | Printe | ed: 08/1 | 1/2006 |
|--------|-------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------|-----------------|--------|------|--------|----------|--------|
|        | <u>System Numb</u>                  | ber:                         | 295036                                                                                          |                 |        |      |        |          |        |
|        | System Name                         |                              | Secondary Containment High Sump/Area                                                            | a Water         |        | NRC  | Imp    | Facili   | ty Imp |
|        | <u>0</u>                            |                              | Level                                                                                           | (               | CFR    | RO   | SRO    | RO       | SRO    |
| K1     | Knowledg<br>following<br>CONTAII    | ge of th<br>concej<br>NMEN   | ne operational implications of the<br>pts as they apply to SECONDARY<br>JT HIGH SUMP/AREA WATER | (41.8 to 41.10) | )      |      |        |          |        |
|        | LEVEL:                              |                              |                                                                                                 |                 |        |      |        |          |        |
| EK1.01 | Radiation                           | n relea                      | ses                                                                                             |                 |        | 2.9  | 3.1    | 2.9      | 3.1    |
| EK1.02 | Electrica                           | al grou                      | nd/ circuit malfunction                                                                         |                 |        | 2.6* | 2.8*   | 2.6      | 2.8    |
| К2     | Knowledg<br>CONTAII<br>and the fo   | ge of tl<br>NMEN             | ne interrelations between SECONDARY<br>NT HIGH SUMP/AREA WATER LEVEL                            | (41.7, 45.8)    |        |      |        |          |        |
| EK2.01 | Seconda                             | rv con                       | tainment equipment and floor drain system                                                       |                 |        | 3.1  | 3.2    | 3.1      | 3.2    |
| EK2.02 | Post-accid                          | dent sa                      | mpling system: Plant-Specific                                                                   |                 |        | 2.6  | 2.9    | 2.6      | 2.9    |
| EK2.03 | Radwaste                            | e                            |                                                                                                 |                 |        | 2.8  | 3.1    | 2.8      | 3.1    |
| К3     | Knowledg<br>they apply<br>SUMP/AF   | ge of tl<br>y to SH<br>REA V | ne reasons for the following responses as<br>ECONDARY CONTAINMENT HIGH<br>VATER LEVEL:          | (41.5 / 45.6)   |        |      |        |          |        |
| EK3.01 | Emergen                             | ncv der                      | pressurization                                                                                  |                 |        | 2.6  | 2.8    | 2.6      | 2.8    |
| EK3.02 | Reactor                             | ŚĊŔĂ                         | М                                                                                               |                 |        | 2.8  | 2.8    | 2.8      | 2.8    |
| EK3.03 | Isolating                           | affect                       | ed systems                                                                                      |                 |        | 3.5  | 3.6    | 3.5      | 3.6    |
| EK3.04 | Pumping                             | g secon                      | dary containment sumps                                                                          |                 |        | 3.1  | 3.4    | 3.1      | 3.4    |
| A1     | Ability to<br>apply to S<br>SUMP/AF | opera<br>SECOI<br>REA V      | te and/or monitor the following as they<br>NDARY CONTAINMENT HIGH<br>VATER LEVEL:               | (41.7 / 45.6)   |        |      |        |          |        |
| EA1.01 | Seconda                             | rv con                       | tainment equipment and floor drain systems                                                      |                 |        | 3.2  | 3.3    | 3.2      | 3.3    |
| EA1.02 | Affected                            | l syster                     | ns so as to isolate damaged portions                                                            |                 |        | 3.5  | 3.6    | 3.5      | 3.6    |
| EA1.03 | Radwast                             | e                            |                                                                                                 |                 |        | 2.8  | 3.0    | 2.8      | 3.0    |
| EA1.04 | Radiatio                            | n mon                        | itoring: Plant-Specific                                                                         |                 |        | 3.1  | 3.4    | 3.1      | 3.4    |
| A2     | Ability to<br>they apply<br>SUMP/AF | deteri<br>y to SI<br>REA V   | mine and/or interpret the following as<br>ECONDARY CONTAINMENT HIGH<br>VATER LEVEL:             | (41.10 / 43.5 / | 45.13) |      |        |          |        |
| EA2.01 | Operabil                            | lity of                      | components within the affected area                                                             |                 |        | 3.0  | 3.2    | 3.0      | 3.2    |
| EA2.02 | Water le                            | vel in                       | the affected area                                                                               |                 |        | 3.1  | 3.1    | 3.1      | 3.1    |
| EA2.03 | Cause of                            | f the hi                     | gh water level                                                                                  |                 |        | 3.4  | 3.8    | 3.4      | 3.8    |
|        |                                     |                              | -                                                                                               |                 |        |      |        |          |        |

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|        | Facility: CPS                                    |                                                                                                 |                 | Printed: 08/11/2 |      |               |        |
|--------|--------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|------------------|------|---------------|--------|
|        | System Number:                                   | 295037                                                                                          |                 |                  |      |               |        |
|        | System Name:                                     | SCRAM Condition Present and Reactor                                                             | Power           | NRC Imp          |      | <u>Facili</u> | ty Imp |
|        |                                                  | Above APRM Downscale or Unknown                                                                 | CFR             | RO               | SRO  | RO            | SRO    |
| KI     | Knowledge of t<br>following conce<br>CONDITION 1 | the operational implications of the<br>epts as they apply to SCRAM                              | (41.8 to 41.10) |                  |      |               |        |
|        | ABOVE APRN                                       | A DOWNSCALE OR UNKNOWN:                                                                         |                 |                  |      |               |        |
| EK1.01 | Reactor press                                    | are effects on reactor power                                                                    |                 | 4.1*             | 4.3* | 4.1           | 4.3    |
| EK1.02 | Reactor water                                    | level effects on reactor power                                                                  |                 | 4.1*             | 4 3* | 4.1           | 4.3    |
| EK1.03 | Boron effects                                    | on reactor power (SBLC)                                                                         |                 | 4.2              | 4.4* | 4.2           | 4.4    |
| EK1.04 | Hot shutdown                                     | boron weight: Plant-Specific                                                                    |                 | 3.4              | 3.6  | 3.4           | 3.6    |
| EK1.05 | Cold shutdow                                     | n boron weight: Plant-Specific                                                                  |                 | 3.4              | 3.6  | 3.4           | 3.6    |
| EK1.06 | Cooldown eff                                     | ects on reactor power                                                                           |                 | 4.0*             | 4.2* | 4.0           | 4.2    |
| EK1.07 | Shutdown ma                                      | rgin                                                                                            |                 | 3.4              | 3.8  | 3.4           | 3.8    |
| К2     | Knowledge of (<br>CONDITION )<br>ABOVE APPN      | the interrelations between SCRAM<br>PRESENT AND REACTOR POWER<br>A DOWNSCALE OR UNKNOWN and the | (41.7, 45.8)    |                  |      |               |        |
|        | following:                                       | A DOWNSCALE ON UNKNOWN and the                                                                  |                 |                  |      |               |        |
| EK2.01 | RPS                                              |                                                                                                 |                 | 4.2*             | 4.3* | 4.2           | 4.3    |
| EK2.02 | RRCS: Plant-S                                    | pecific                                                                                         |                 | 4.0              | 4.2  | 4.0           | 4.2    |
| EK2.03 | ARI/RPT/AT                                       | WS: Plant-Specific                                                                              |                 | 4.1              | 4.2* | 4.1           | 4.2    |
| EK2.04 | SBLC system                                      |                                                                                                 |                 | 4.4*             | 4.5* | 4.4           | 4.5    |
| EK2.05 | CRD hydrauli                                     | c system                                                                                        |                 | 4.0              | 4.1  | 4.0           | 4.1    |
| EK2.06 | CRD mechani                                      | sms                                                                                             |                 | 3.5              | 3.6  | 3.5           | 3.6    |
| EK2.07 | Neutron moni                                     | toring system                                                                                   |                 | 4.0*             | 4.0  | 4.0           | 4.0    |
| EK2.08 | SPDS/ERIS/C                                      | RIDS/GDS: Plant-Specific                                                                        |                 | 2.7              | 3.1  | 2.7           | 3.1    |
| EK2.09 | Reactor water                                    | level                                                                                           |                 | 4.0              | 4.2  | 4.0           | 4.2    |
| EK2.10 | Reactor pressu                                   | ire                                                                                             |                 | 3.8              | 4.1  | 3.8           | 4.1    |
| EK2.11 | RMCS: Plant &                                    | Specific                                                                                        |                 | 3.8              | 3.9  | 3.8           | 3.9    |
| EK2.12 | Rod control a                                    | nd information system: Plant-Specific                                                           |                 | 3.6              | 3.8  | 3.6           | 3.8    |
| EK2.13 | Alternate boro                                   | on injection methods: Plant-Specific                                                            |                 | 3.4              | 4.1  | 3.4           | 4.1    |
| EK2.14 | <del>RPIS: Plant-Sp</del>                        | pecific                                                                                         |                 | 3.6              | 3.9  | 3.6           | 3.9    |
| К3     | Knowledge of t<br>they apply to S                | the reasons for the following responses as<br>CRAM CONDITION PRESENT AND                        | (41.5 / 45.6)   |                  |      |               |        |
|        | INKNOWN-                                         | WER ADOVE AI KWI DOWINSCALE UK                                                                  |                 |                  |      |               |        |
| FK3 01 | Recirculation                                    | nump trin/runback: Plant-Specific                                                               |                 | 41               | 42   | 41            | 42     |
| EK3.02 | SBLC injectio                                    | n                                                                                               |                 | 4.3*             | 4.5* | 4.3           | 4.5    |
| EK3.03 | Lowering read                                    | tor water level                                                                                 |                 | 4.1*             | 4.5* | 4.1           | 4.5    |
| EK3.04 | Hot shutdown                                     | boron weight: Plant-Specific                                                                    |                 | 3.2              | 3.7  | 3.2           | 3.7    |
| EK3.05 | Cold shutdow                                     | n boron weight: Plant-Specific                                                                  |                 | 3.2              | 3.7  | 3.2           | 3.7    |
| EK3.06 | Maintaining h                                    | eat sinks external to the containment                                                           |                 | 3.8              | 4.1  | 3.8           | 4.1    |
| EK3.07 | Various altern                                   | ate methods of control rod insertion:                                                           |                 | 4.2              | 4.3* | 4.2           | 4.3    |
|        | Plant-Specific                                   |                                                                                                 |                 |                  |      |               |        |
| EK3.08 | ATWS circuit                                     | ry: Plant-Specific.                                                                             |                 | 3.6*             | 3.9* | 3.6           | 3.9    |

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|        | Facility: CPS                                                                                                                                          |      | Printe | d: 08/1 | 1/2006 |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------|--------|
|        | System Number: 295037                                                                                                                                  |      |        |         |        |
|        | System Name: SCRAM Condition Present and Reactor Power                                                                                                 | NRC  | լաթ    | Facili  | tv læ  |
|        | Above APRM Downscale or Unknown CFR                                                                                                                    | RO   | SRO    | RO      | 5      |
| A1     | Ability to operate and/or monitor the following as they (41.7 / 45.6)<br>apply to SCRAM CONDITION PRESENT AND<br>REACTOR POWER ABOVE APRM DOWNSCALE OR |      |        |         |        |
| FA1.01 | Reactor Protection System                                                                                                                              | 4.6* | 4.6*   | 4.6     | 4.6    |
| EA1.02 | PDCS- Plant.Specific                                                                                                                                   | 3.8  | 4.0    | 3.8     | 4.0    |
| EA1.03 | ARI/RPT/ATWS: Plant-Specific                                                                                                                           | 4.1* | 4.1*   | 4.1     | 4.1    |
| FA1 04 | SBLC                                                                                                                                                   | 4.5* | 4.5*   | 4.5     | 4.5    |
| EA1.05 | CRD hydraulics systems                                                                                                                                 | 3.9  | 4.0    | 3.9     | 4.0    |
| EA1.06 | Neutron monitoring system                                                                                                                              | 4.1* | 4.1    | 4.1     | 4.1    |
| EA1.07 | RMCS: Plant-Specific                                                                                                                                   | 3.9  | 4.0    | 3.9     | 4.0    |
| EA1 08 | Rod control and information system: Plant-Specific                                                                                                     | 3.6  | 3.6    | 3.6     | 3.6    |
| EA1.09 | SPDS/ERIS/CRIDS/GDS: Plant-Specific                                                                                                                    | 2.8* | 3.0    | 2.8     | 3.0    |
| EA1.10 | Alternate boron injection methods: Plant-Specific                                                                                                      | 3.7  | 3.9    | 3.7     | 3.9    |
| EA1.11 | PCIS/NSSSS                                                                                                                                             | 3.5  | 3.6    | 3.5     | 3.6    |
| A2     | Ability to determine and/or interpret the following as (41.10 / 43.5 / 45.13) they apply to SCRAM CONDITION PRESENT AND                                |      |        |         |        |
|        | REACTOR POWER ABOVE APRM DOWNSCALE OR<br>UNKNOWN:                                                                                                      |      |        |         |        |
| EA2.01 | Reactor power                                                                                                                                          | 4.2* | 4.3*   | 4.2     | 4.3    |
| EA2.02 | Reactor water level                                                                                                                                    | 4.1* | 4.2*   | 4.1     | ^ ۵    |
| EA2.03 | SBLC tank level                                                                                                                                        | 4.3* | 4.4*   | 4.3     | •      |
| EA2.04 | Suppression pool temperature                                                                                                                           | 4.0* | 4.1*   | 4.0     | 4.1    |
| EA2.05 | Control rod position                                                                                                                                   | 4.2* | 4.3*   | 4.2     | 4.3    |
| EA2.06 | Reactor pressure                                                                                                                                       | 4.0  | 4.1    | 4.0     | 4.1    |
| EA2.07 | Containment conditions/isolations                                                                                                                      | 4.0  | 4.2*   | 4.0     | 4.2    |

| Printed: | 08/11/2006 |
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|            | Facility: CPS                                   |                                                                                  |                        | d: 08/1 | 08/11/2006 |               |        |
|------------|-------------------------------------------------|----------------------------------------------------------------------------------|------------------------|---------|------------|---------------|--------|
|            | System Number:                                  | 295038                                                                           |                        |         |            |               |        |
|            | System Name:                                    | High Off-Site Release Rate                                                       |                        | NRC     | Imp        | <u>Facili</u> | ty Imp |
| ~          |                                                 |                                                                                  | CFR                    | RO      | SRO        | RO            | SRO    |
| K1         | Knowledge of t<br>following conce<br>RELEASE BA | he operational implications of the<br>epts as they apply to HIGH OFF-SITE<br>TE: | (41.8 to 41.10)        |         |            |               |        |
| EK1.01     | Biological effe                                 | ects of radioisotope ingestion                                                   |                        | 2.5     | 3.1        | 2.5           | 3.1    |
| EK1.02     | <sup>†</sup> Protection of                      | the general public                                                               |                        | 4.2*    | 4.4*       | 4.2           | 4.4    |
| EK1.03     | †Meteorologic                                   | cal effects on off-site release                                                  |                        | 2.8     | 3.8        | 2.8           | 3.8    |
| K2         | Knowledge of (<br>OFF-SITE RE                   | the interrelations between HIGH<br>LEASE RATE and the following:                 | (41.7, 45.8)           |         |            |               |        |
| EK2.01     | Radwaste                                        |                                                                                  |                        | 3.1     | 3.4        | 3.1           | 3.4    |
| EK2.02     | Offgas system                                   | 1                                                                                |                        | 3.6     | 3.8        | 3.6           | 3.8    |
| EK2.03     | Plant ventilati                                 | on systems                                                                       |                        | 3.6     | 3.8        | 3.6           | 3.8    |
| EK2.04     | Stack-gas mor                                   | nitoring system: Plant-Specific                                                  |                        | 3.9     | 4.2        | 3.9           | 4.2    |
| EK2.05     | †Site emergen                                   | icy plan                                                                         |                        | 3.7     | 4.7*       | 3.7           | 4.7    |
| EK2.06     | Process liquid                                  | radiation monitoring system                                                      |                        | 3.4     | 3.7        | 3.4           | 3.7    |
| EK2.07     | Control room                                    | ventilation                                                                      |                        | 3.5     | 3.7        | 3.5           | 3.7    |
| EK2.08     | SPDS/ERIS/C                                     | CRIDS/GDS: Plant-Specific                                                        |                        | 2.6     | 3.1        | 2.6           | 3.1    |
| EK2.09     | Post accident                                   | sample system (PASS): Plant-Specific                                             |                        | 2.9*    | 3.5*       | 2.9           | 3.5    |
| EK2.10     | Condenser air                                   | removal system                                                                   |                        | 3.2     | 3.4        | 3.2           | 3.4    |
| EK2.11     | MSIV leakage                                    | e control: Plant-Specific                                                        |                        | 3.1     | 3.4        | 3.1           | 3.4    |
| EK2.12     | Feedwater lea                                   | kage control: BWR-6                                                              |                        | 3.5     | 3.8        | 3.5           | 3.8    |
| <u></u> К3 | Knowledge of t                                  | the reasons for the following responses as                                       | (41.5 / 45.6)          |         |            |               |        |
| EK 3 01    | they apply to r                                 | ion of site emergency plan                                                       |                        | 36      | 4 5*       | 3.6           | 45     |
| EK3.01     | Svetem isolati                                  | ons                                                                              |                        | 3.0     | 4.5        | 3.0           | 4.2    |
| EK3.02     | Control room                                    | ventilation isolation: Plant-Specific                                            |                        | 37      | 39         | 37            | 39     |
| EK3.04     | †Emergency o                                    | lepressurization                                                                 |                        | 3.6     | 3.9        | 3.6           | 3.9    |
| A1         | Ability to oper                                 | ate and/or monitor the following as they                                         | (41.7 / 45.6)          |         |            |               |        |
| EA101      | apply to HIGH                                   | OFF-SITE RELEASE RATE:                                                           |                        | 3.0     | 42         | 30            | 42     |
| EA1.01     | *Meteorologi                                    | cal instrumentation                                                              |                        | 3.7     | ۲.2<br>۲.8 | 3.0           | 38     |
| EA1.02     | Process liquid                                  | radiation monitoring system                                                      |                        | 37      | 3.9        | 3.7           | 3.0    |
| EA1.03     | SPDS/FRIS/C                                     | RIDS/GDS: Plant-Specific                                                         |                        | 2.8     | 32         | 2.8           | 3.2    |
| EA1.04     | Post accident s                                 | ample system (PASS): Plant-Specific                                              |                        | 3.0*    | 3.5*       | 3.0           | 3.5    |
| EA1.06     | Plant ventilati                                 | on                                                                               |                        | 3.5     | 3.6        | 3.5           | 3.6    |
| EA1.07     | Control room                                    | ventilation: Plant-Specific                                                      |                        | 3.6     | 3.8        | 3.6           | 3.8    |
| A2         | Ability to deter<br>they apply to b             | mine and/or interpret the following as                                           | (41.10 / 43.5 / 45.13) |         |            |               |        |
| EA2 01     | tOff-site                                       |                                                                                  |                        | 3.3*    | 4.3*       | 3.3           | 4.3    |
| EA2.02     | †Total numbe                                    | r of curies released                                                             |                        | 2.5*    | 3.3*       | 2.5           | 3.3    |
| EA2.03     | +Radiation lev                                  | vels                                                                             |                        | 3.5*    | 4.3*       | 3.5           | 4.3    |
| _EA2.04    | Source of off-                                  | site release                                                                     |                        | 4.1*    | 4.5*       | 4.1           | 4.5    |

| Facility: CI        | PS                         |     | Printe                   | d: 08/11/2006              |
|---------------------|----------------------------|-----|--------------------------|----------------------------|
| System Number:      | 295038                     |     |                          |                            |
| <u>System Name:</u> | High Off-Site Release Rate | CFR | <u>NRC Imp</u><br>RO SRO | <u>Facility Ir</u><br>RO & |

Facility: CPS

ر م System Number: 300000

|      |                | System Name: Instrument Air System (IAS)                                                                              |                                  | NRC        | lmg | <u>Facili</u> | <u>ty Imp</u> |
|------|----------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|-----|---------------|---------------|
| N. 2 |                |                                                                                                                       | CFR                              | RO         | SRO | RO            | SRO           |
|      | K1             | Knowledge of the connections and/or cause effect<br>relationships between INSTRUMENT AIR SYSTEM and                   | (41.2 to 41.9 / 45.7 to<br>45.8) |            |     |               |               |
|      | <b>V</b> 1 01  | the following:                                                                                                        |                                  | 24         | 27  | 24            | 27            |
|      | K1.01          | <del>Semiaa air</del>                                                                                                 |                                  | 2.4        | 2.7 | 2.4           | 2.7           |
|      | K1.02          | Service air                                                                                                           |                                  | 2.7        | 2.0 | 2.7           | 2.8           |
|      | N1.03          |                                                                                                                       |                                  | 2.0<br>2.0 | 2.9 | 2.0<br>2.0    | 2.2           |
|      | K1.04          | Cooling water to compressor                                                                                           |                                  | 2.0        | 2.7 | 2.0           | 2.7           |
|      | K1.05          | Main Steam isolation valve an                                                                                         |                                  | 5.1        | 3.2 | 5.1           | 3.2           |
|      | К2             | Knowledge of electrical power supplies to the following:                                                              | (41.7)                           |            |     |               |               |
|      | K2.01          | Instrument air compressor                                                                                             | ()                               | 2.8        | 2.8 | 2.8           | 2.8           |
|      | K2.02          | Emergency air compressor                                                                                              |                                  | 3.0        | 3.0 | 3.0           | 3.0           |
|      | КЗ             | Knowledge of the effect that a loss or malfunction of the<br>(INSTRUMENT AIR SYSTEM) will have on the<br>following:   | (41.7 / 45.6)                    |            |     |               |               |
|      | K3.01          | Containment air system                                                                                                |                                  | 2.7        | 2.9 | 2.7           | 2.9           |
|      | K3.02          | Systems having pneumatic valves and controls                                                                          |                                  | 3.3        | 3.4 | 3.3           | 3.4           |
|      | K3.03          | Cross tied units                                                                                                      |                                  | 2.9        | 3.0 | 2.9           | 3.0           |
| _    | _ K4           | Knowledge of (INSTRUMENT AIR SYSTEM) design feature(s) and or interlocks which provide for the                        | (41.7)                           |            |     |               |               |
|      | <b>K</b> / 01  | Nonvol/automatic transfers of control                                                                                 |                                  | 28         | 29  | 2.8           | 29            |
|      | K4.01          | Cross over to other air systems                                                                                       |                                  | 3.0        | 3.0 | 3.0           | 3.0           |
|      | K4.02<br>K4.03 | Securing of IAS upon loss of cooling water                                                                            |                                  | 2.8        | 2.8 | 2.8           | 2.8           |
|      | К5             | Knowledge of the operational implications of the<br>following concepts as they apply to the INSTRUMENT<br>AIR SYSTEM- | (41.5 / 45.3)                    | ·          |     |               |               |
|      | K5.01          | Air compressors                                                                                                       |                                  | 2.5        | 2,5 | 2.5           | 2.5           |
|      | K5.02          | Pressure gauges                                                                                                       |                                  | 2.3        | 2.2 | 2.3           | 2.2           |
|      | K5.03          | Temperature indicators                                                                                                |                                  | 2.1        | 2.1 | 2.1           | 2.1           |
|      | K5.04          | Service air refusal valve                                                                                             |                                  | 2.3        | 2.3 | 2.3           | 2.3           |
|      | K5.06          | Air drvers                                                                                                            |                                  | 2.4        | 2.5 | 2.4           | 2.5           |
|      | K5.07          | Valves                                                                                                                |                                  | 2.4        | 2.3 | 2.4           | 2.3           |
|      | K5.08          | Sensors and detectors                                                                                                 |                                  | 2.3        | 2.5 | 2.3           | 2.5           |
|      | K5.09          | Controllers and positioners                                                                                           |                                  | 2.0        | 2.1 | 2.0           | 2.1           |
|      | K5.10          | Motors                                                                                                                |                                  | 2.1        | 2.2 | 2.1           | 2.2           |
|      | K5.11          | Heat exchangers and condensers                                                                                        |                                  | 2.2        | 2.2 | 2.2           | 2.2           |
|      | K5.12          | Breakers, relays and disconnects                                                                                      |                                  | 2.2        | 2.2 | 2.2           | 2.2           |
|      | K5.13          | Filters                                                                                                               |                                  | 2.9        | 2.9 | 2.9           | 2.9           |
|      |                |                                                                                                                       |                                  |            |     |               |               |

System Number: 300000

Facility: CPS

|       | System Name: Instrument Air System (IAS)                                                                                                                                                                                               | Instrument Air System (IAS) |     |     | Facility D |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----|-----|------------|-----|
|       |                                                                                                                                                                                                                                        | CFR                         | RO  | SRO | RO         | S   |
| K6    | Knowledge of the effect that a loss or malfunction of the (41.7 / 45. following will have on the INSTRUMENT AIR SYSTEM:                                                                                                                | .7)                         |     |     |            |     |
| K6.01 | Air compressors                                                                                                                                                                                                                        |                             | 2.2 | 2.2 | 2.2        | 2.2 |
| K6.02 | Pressure gauges                                                                                                                                                                                                                        |                             | 2.4 | 2.4 | 2.4        | 2.4 |
| K6.03 | Temperature indicators                                                                                                                                                                                                                 |                             | 2.7 | 2.7 | 2.7        | 2.7 |
| K6.04 | Service air refusal valve                                                                                                                                                                                                              |                             | 2.6 | 2.5 | 2.6        | 2.5 |
| K6.06 | Air dryers                                                                                                                                                                                                                             |                             | 2.3 | 2.3 | 2.3        | 2.3 |
| K6.07 | Valves                                                                                                                                                                                                                                 |                             | 2.5 | 2.6 | 2.5        | 2.6 |
| K6.08 | Sensors and detectors                                                                                                                                                                                                                  |                             | 2.3 | 2.3 | 2.3        | 2.3 |
| K6.09 | Controllers and positioners                                                                                                                                                                                                            |                             | 2.3 | 2.3 | 2.3        | 2.3 |
| K6.10 | Motors                                                                                                                                                                                                                                 |                             | 2.3 | 2.4 | 2.3        | 2.4 |
| K6.11 | Heat exchangers and condensers                                                                                                                                                                                                         |                             | 2.3 | 2.3 | 2.3        | 2.3 |
| K6.12 | Breakers, relays and disconnects                                                                                                                                                                                                       |                             | 2.9 | 2.9 | 2.9        | 2.9 |
| K6.13 | Filters                                                                                                                                                                                                                                |                             | 2.8 | 2.3 | 2.8        | 2.3 |
| A2    | Ability to (a) predict the impacts of the following on the (41.5 / 45<br>INSTRUMENT AIR SYSTEM and (b) based on those<br>predictions, use procedures to correct, control, or<br>mitigate the consequences of those abnormal operation: | .6)                         |     |     |            |     |
| A2.01 | Air dryer and filter malfunctions                                                                                                                                                                                                      |                             | 2.9 | 2.8 | 2.9        | 2.8 |
| A3    | Ability to monitor automatic operations of the (41.7 / 45<br>INSTRUMENT AIR SYSTEM including:                                                                                                                                          | .7)                         |     |     |            | ·   |
| A3.01 | Air pressure                                                                                                                                                                                                                           |                             | 2.3 | 2.1 | 2.3        | 2.1 |
| A3.02 | Air temperature                                                                                                                                                                                                                        |                             | 2.9 | 2.7 | 2.9        | 2.7 |
| A4    | Ability to manually operate and/or monitor in the control (41.7 / 45 room:                                                                                                                                                             | 5.5 to 45.8)                |     |     |            |     |
| A4.01 | Pressure gauges                                                                                                                                                                                                                        |                             | 2.6 | 2.7 | 2.6        | 2.7 |

Facility: CPS

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|          |        | System Number:                          | 400000                                                                                |                         |            |     |               |        |
|----------|--------|-----------------------------------------|---------------------------------------------------------------------------------------|-------------------------|------------|-----|---------------|--------|
|          |        | System Name:                            | Component Cooling Water System (CCV                                                   | VS)                     | <u>NRC</u> | lmp | <u>Facili</u> | ty Imp |
| <b>`</b> |        |                                         |                                                                                       | CFR                     | RO         | SRO | RO            | SRO    |
|          | К1     | Knowledge of                            | the physical connections and/or cause-effect                                          | (41.2 to 41.9 / 45.7 to |            |     |               |        |
|          |        | relationships b                         | etween CCWS and the following:                                                        | 45.8)                   |            |     |               |        |
|          | K1.01  | Service water                           | system                                                                                |                         | 3.2        | 3.3 | 3.2           | 3.3    |
|          | K1.02  | Loads cooled                            | by CCWS                                                                               |                         | 3.2        | 3.4 | 3.2           | 3.4    |
|          | K1.03  | Radiation mo                            | nitoring systems                                                                      |                         | 2.7        | 3.0 | 2.7           | 3.0    |
|          | K1.04  | Reactor coola<br>RCS leakage            | int system, in order to determine source (s) of into CCWS                             |                         | 2.9        | 3.1 | 2.9           | 3.1    |
|          | К2     | Knowledge of                            | electrical power supplies to the following:                                           | (41.7)                  |            |     |               |        |
|          | K2 01  | CCW numps                               |                                                                                       | ()                      | 2.9        | 3.0 | 2.9           | 3.0    |
|          | K2 02  | CCW valves                              |                                                                                       |                         | 2.9        | 2.9 | 2.9           | 2.9    |
|          | 112.02 |                                         |                                                                                       |                         |            |     |               |        |
|          | К3     | Knowledge of                            | the effect that a loss or malfunction of the                                          | (41.7 / 45.6)           |            |     |               |        |
|          |        | CCWS will ha                            | ve on the following:                                                                  |                         |            |     |               |        |
|          | K3.01  | Loads cooled                            | by CCWS                                                                               |                         | 2.9        | 3.3 | 2.9           | 3.3    |
|          | К4     | Knowledge of                            | CCWS design feature(s) and or interlocks                                              | (41.7)                  |            |     |               |        |
|          |        | which provide                           | for the following:                                                                    |                         |            |     |               |        |
|          | K4.01  | Automatic sta                           | art of standby pump                                                                   |                         | 3.4        | 3.9 | 3.4           | 3.9    |
| ~        | К5     | Knowledge of                            | the operational implications of the                                                   | (41.5 / 45.3)           |            |     |               |        |
|          |        | following cond                          | cepts as they apply to the CCWS:                                                      | . ,                     |            |     |               |        |
|          | K5.01  | Chemistry co                            | ntrol                                                                                 |                         | 1.9        | 2.0 | 1.9           | 2.0    |
|          | K6     | Knowledge of                            | the effect that a loss or malfunction of the                                          | (41.7 / 45.7)           |            |     |               |        |
|          |        | following will                          | have on the CCWS:                                                                     |                         |            |     |               |        |
|          | K6.01  | Valves                                  |                                                                                       |                         | 2.7        | 2.8 | 2.7           | 2.8    |
|          | K6.02  | Sensors and                             | detectors                                                                             |                         | 2.3        | 2.4 | 2.3           | 2.4    |
|          | K6.03  | Controllers a                           | nd positioners                                                                        |                         | 2.4        | 2.6 | 2.4           | 2.6    |
|          | K6.04  | Pumps                                   |                                                                                       |                         | 3.0        | 3.1 | 3.0           | 3.1    |
|          | K6.05  | Motors                                  |                                                                                       |                         | 2.8        | 2.9 | 2.8           | 2.9    |
|          | K6.06  | Heat exchange                           | gers and condensers                                                                   |                         | 2.9        | 2.9 | 2.9           | 2.9    |
|          | K6.07  | Breakers, rel                           | ays, and disconnects                                                                  |                         | 2.7        | 2.8 | 2.7           | 2.8    |
|          | A1     | Ability to pre-<br>associated wit       | dict and/or monitor changes in parameters<br>h operating the CCWS controls including: | (41.5 / 45.5)           |            |     |               |        |
|          | A1.01  | CCW flow r                              | ate                                                                                   |                         | 2.8        | 2.8 | 2.8           | 2.8    |
|          | A1.02  | CCW temper                              | rature                                                                                |                         | 2.8        | 2.8 | 2.8           | 2.8    |
|          | A1 03  | CCW Pressu                              | re                                                                                    |                         | 2.7        | 2.7 | 2.7           | 2.7    |
|          | A1 04  | Surve tank le                           | evel                                                                                  |                         | 2.8        | 2.8 | 2.8           | 2.8    |
|          |        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | • •                                                                                   |                         |            |     |               |        |

Facility:

CPS

| Printed: 08/ | 1 | 1/2006 |
|--------------|---|--------|
|--------------|---|--------|

|       | System Number:                            | 400000                                                                                   |                 |         |         |     |            |     |
|-------|-------------------------------------------|------------------------------------------------------------------------------------------|-----------------|---------|---------|-----|------------|-----|
|       | System Name:                              | Component Cooling Water System (CCWS)                                                    |                 |         | NRC Imp |     | Facility 1 |     |
|       |                                           |                                                                                          |                 | CFR     | RO      | SRO | RO         | ò   |
| A2    | Ability to (a) p<br>CCWS and (b)          | redict the impacts of the following on the<br>based on those predictions, use procedures | (41.5 / 45.6)   |         |         |     |            |     |
|       | abnormal oper                             | roi, or mitigate the consequences of those                                               |                 |         |         |     |            |     |
| A2.01 | Loss of CCW                               | nump                                                                                     |                 |         | 3.3     | 3.4 | 3.3        | 3.4 |
| A2.02 | High/low surg                             | e tank level                                                                             |                 |         | 2.8     | 3.0 | 2.8        | 3.0 |
| A2.03 | High/low CCV                              | V temperature                                                                            |                 |         | 2.9     | 3.0 | 2.9        | 3.0 |
| A2.04 | Radiation mon                             | nitoring system alarm                                                                    |                 |         | 2.9     | 3.0 | 2.9        | 3.0 |
| A3    | Ability to moni<br>including:             | tor automatic operations of the CCWS                                                     | (41.7 / 45.7)   |         |         |     |            |     |
| A3.01 | Setpoints on in<br>operations, wa<br>CCWS | nstrument signal levels for normal arnings, and trips that are applicable to the         |                 |         | 3.0     | 3.0 | 3.0        | 3.0 |
| A4    | Ability to manu<br>room:                  | ually operate and/or monitor in the control                                              | (41.7 / 45.5 to | 9 45.8) |         |     |            |     |
| A4.01 | CCW indication                            | ons and control                                                                          |                 |         | 3.1     | 3.0 | 3.1        | 3.0 |

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|        |        | Facility: CPS                                   | 3                                                                                               |                      |     | Printe | d: 08/1 | 1/2006 |
|--------|--------|-------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|-----|--------|---------|--------|
|        |        | System Number:                                  | 500000                                                                                          |                      |     |        |         |        |
|        |        | System Name:                                    | High Containment Hydrogen Concent                                                               | ration               | NRC | lmp    | Facili  | ty lmp |
| s      |        | · · · · · · · · · · · · · · · · · · ·           |                                                                                                 | CFR                  | RO  | SRO    | RO      | SRO    |
|        | K1     | Knowledge of t<br>following conce<br>CONTAINME  | the operational implications of the<br>epts as they apply to HIGH<br>NT HYDROGEN CONCENTRATIONS | (41.8 to 41.10)<br>: |     |        |         |        |
|        | EK1.01 | Containment i                                   | integrity                                                                                       |                      | 3.3 | 3.9    | 3.3     | 3.9    |
|        | К2     | Knowledge of t<br>CONTAINME<br>the following:   | the interrelations between HIGH<br>NT HYDROGEN CONCENTRATIONS                                   | (41.7, 45.8)         |     |        |         |        |
|        | EK2.01 | Containment l                                   | hydrogen monitoring systems                                                                     |                      | 3.1 | 3.5    | 3.1     | 3.5    |
|        | EK2.02 | Containment of                                  | oxygen monitoring systems                                                                       |                      | 3.1 | 3.5    | 3.1     | 3.5    |
|        | EK2.03 | Containment /                                   | Atmosphere Control System                                                                       |                      | 3.3 | 3.4    | 3.3     | 3.4    |
|        | EK2.04 | Drywell recirc                                  | culating fan                                                                                    |                      | 2.7 | 2.9    | 2.7     | 2.9    |
|        | EK2.05 | Hydrogen and                                    | l oxygen recombiners                                                                            |                      | 3.2 | 3.3    | 3.2     | 3.3    |
|        | EK2.06 | Wetwell Sprav                                   | system                                                                                          |                      | 3.0 | 3.4    | 3.0     | 3.4    |
|        | EK2.07 | Drywell vent s                                  | svstem                                                                                          |                      | 3.2 | 3.7    | 3.2     | 3.7    |
|        | EK2.08 | Wet Well vent                                   | svstem                                                                                          |                      | 3.2 | 3.6    | 3.2     | 3.6    |
|        | EK2.09 | Drywell nitrog                                  | en purge system                                                                                 |                      | 3.0 | 3.3    | 3.0     | 3.3    |
|        | К3     | Knowledge of t<br>they apply to H<br>HYDROGEN ( | the reasons for the following responses as<br>HGH PRIMARY CONTAINMENT<br>CONCENTRATIONS:        | 6 (41.5 / 45.6)      |     |        |         |        |
|        | EK3.01 | Initiation of co                                | ontainment atmosphere control system                                                            |                      | 2.9 | 3.3    | 2.9     | 3.3    |
| $\sim$ | EK3.02 | Operation of d                                  | lrywell recirculating fans                                                                      |                      | 2.8 | 3.0    | 2.8     | 3.0    |
|        | EK3.03 | Operation of h                                  | ydrogen and oxygen recombiners                                                                  |                      | 3.0 | 3.5    | 3.0     | 3.5    |
|        | EK3.04 | Emergency der                                   | pressurization                                                                                  |                      | 3.1 | 3.9    | 3.1     | 3.9    |
|        | EK3.05 | Operation of w                                  | vet well (suppression pool) sprays                                                              |                      | 2.9 | 3.4    | 2.9     | 3.4    |
|        | EK3.06 | Operation of w                                  | vet well vent                                                                                   |                      | 3.1 | 3.7    | 3.1     | 3.7    |
|        | EK3.07 | Operation of c                                  | irywell vent                                                                                    |                      | 3.1 | 3.7    | 3.1     | 3.7    |
|        | EK3.08 | Operation of d                                  | rywell nitrogen purge system                                                                    |                      | 3.1 | 3.6    | 3.1     | 3.6    |
|        | A1     | Ability to operate<br>to HIGH CON               | ate and monitor the following as they ap<br>TAINMENT HYDROGEN CONTROL:                          | ply (41.7 / 45.6)    |     |        |         |        |
|        | EA1.01 | Primary conta                                   | inment hydrogen instrumentation                                                                 |                      | 3.4 | 3.3    | 3.4     | 3.3    |
|        | EA1.02 | Primary conta                                   | inment oxygen instrumentation                                                                   |                      | 3.3 | 3.2    | 3.3     | 3.2    |
|        | EA1.03 | Containment /                                   | Atmosphere Control System                                                                       |                      | 3.4 | 3.2    | 3.4     | 3.2    |
|        | EA1.04 | Drywell recirc                                  | culating fans                                                                                   |                      | 2.9 | 2.9    | 2.9     | 2.9    |
|        | EA1.05 | Wetwell spray:                                  | S                                                                                               |                      | 3.3 | 3.3    | 3.3     | 3.3    |
|        | EA1.06 | Drywell sprays                                  | 5                                                                                               |                      | 3.3 | 3.4    | 3.3     | 3.4    |
|        | EA1.07 | Nitrogen purge                                  | e system                                                                                        |                      | 3.4 | 3.3    | 3.4     | 3.3    |

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|        | Facility: CPS                                     |                                                                                      |                        |     | Printe | ed: 08/1      | 1/2006       |
|--------|---------------------------------------------------|--------------------------------------------------------------------------------------|------------------------|-----|--------|---------------|--------------|
|        | <u>System Number:</u>                             | 500000                                                                               |                        |     |        |               |              |
|        | System Name:                                      | High Containment Hydrogen Concentr                                                   | ation                  | NRC | lmp    | <u>Facili</u> | t <u>y I</u> |
|        |                                                   |                                                                                      | CFR                    | RO  | SRO    | RO            | 5            |
| A2     | Ability to deter<br>they apply to H<br>HYDROGEN ( | mine and/or interpret the following as<br>IGH PRIMARY CONTAINMENT<br>CONCENTRATIONS: | (41.10 / 43.5 / 45.13) |     |        |               |              |
| EA2.01 | Hydrogen mor                                      | itoring system availability                                                          |                        | 3.1 | 3.5    | 3.1           | 3.5          |
| EA2.02 | Oxygen monit                                      | oring system availability                                                            |                        | 3.0 | 3.5    | 3.0           | 3.5          |
| EA2.03 | Combustible li                                    | imits for drywell                                                                    |                        | 3.3 | 3.8    | 3.3           | 3.8          |
| EA2.04 | Combustible lin                                   | nits for wetwell                                                                     |                        | 3.3 | 3.3    | 3.3           | 3.3          |

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System Number: 600000

Facility: CPS

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|        | System Name: Plant Fire On Site                                                                         |                                  | <u>NRC</u> | lmp | <u>Facili</u> | ty lmp |
|--------|---------------------------------------------------------------------------------------------------------|----------------------------------|------------|-----|---------------|--------|
| $\sim$ |                                                                                                         | CFR                              | RO         | SRO | RO            | SRO    |
| K1     | Knowledge of the operation applications of the following concepts as they apply to Plant Fire On Site:  | (41.2 to 41.9 / 45.7 to<br>45.8) |            |     |               |        |
| AK1.01 | Fire Classifications by type                                                                            |                                  | 2.5        | 2.8 | 2.5           | 2.8    |
| AK1.02 | Fire Fighting                                                                                           |                                  | 2.9        | 3.1 | 2.9           | 3.1    |
| К2     | Knowledge of the interrelations between PLANT FIRE ON SITE and the following:                           | (41.7)                           |            |     |               |        |
| AK2.01 | Sensors, detectors and valves                                                                           |                                  | 2.6        | 2.7 | 2.6           | 2.7    |
| AK2.02 | Controllers and positioners                                                                             |                                  | 2.4        | 2.5 | 2.4           | 2.5    |
| AK2.03 | Motors                                                                                                  |                                  | 2.5        | 2.6 | 2.5           | 2.6    |
| AK2.04 | Breakers, relays, and disconnects                                                                       |                                  | 2.5        | 2.6 | 2.5           | 2.6    |
| К3     | Knowledge of the reasons for the following responses as they apply to PLANT FIRE ON SITE:               | (41.7 / 45.4)                    |            |     |               |        |
| AK3.01 | Installation of fire detectors                                                                          |                                  | 2.0        | 2.1 | 2.0           | 2.1    |
| AK3.02 | Steps called our in the site fire protection plant, fire protection system manual, and fire zone manual |                                  | 2.2        | 2.8 | 2.2           | 2.8    |
| AK3.03 | Fire detector surveillance test                                                                         |                                  | 2.0        | 2.2 | 2.0           | 2.2    |
| AK3.04 | Actions contained in the abnormal procedure for plant fire on site                                      |                                  | 2.8        | 3.4 | 2.8           | 3.4    |
| A1     | Ability to operate and/or monitor the following as they apply to PLANT FIRE ON SITE:                    | (41.7 / 45.6)                    |            |     |               |        |
| AA1.01 | Respirator air pack                                                                                     |                                  | 3.0        | 2.9 | 3.0           | 2.9    |
| AA1.02 | Re-installation of fire detector                                                                        |                                  | 1.8        | 1.9 | 1.8           | 1.9    |
| AA1.03 | Bypass of fire zone detector                                                                            |                                  | 1.8        | 2.2 | 1.8           | 2.2    |
| AA1.04 | Bypass of heat detector                                                                                 |                                  | 1.9        | 2.2 | 1.9           | 2.2    |
| AA1.05 | Plant and control room ventilation systems                                                              |                                  | 3.0        | 3.1 | 3.0           | 3.1    |
| AA1.06 | Fire alarm                                                                                              |                                  | 3.0        | 3.0 | 3.0           | 3.0    |
| AA1.07 | Fire alarm reset panel                                                                                  |                                  | 2.3        | 2.4 | 2.3           | 2.4    |
| AA1.08 | Fire fighting equipment used on each class of fire                                                      |                                  | 2.6        | 2.9 | 2.6           | 2.9    |
| AA1.09 | Plant fire zone panel (including detector location)                                                     |                                  | 2.5        | 2.7 | 2.5           | 2.7    |
|        |                                                                                                         |                                  |            |     |               |        |

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Facility: CPS

600000 System Number:

**Plant Fire On Site** System Name:

|        | System Name: Plant Fire On Site                                                       |                                  | <u>NRC</u> | Imp | <u>Facilí</u> | ty Ir    |
|--------|---------------------------------------------------------------------------------------|----------------------------------|------------|-----|---------------|----------|
|        |                                                                                       | CFR                              | RO         | SRO | RO            | <u>د</u> |
| A2     | Ability to determine and interpret the following as they apply to PLANT FIRE ON SITE: | (41.2 to 41.9 / 45.7 to<br>45.8) |            |     |               |          |
| AA2.01 | Gas treatment system                                                                  |                                  | 2.2        | 2.3 | 2.2           | 2.3      |
| AA2.02 | Damper position                                                                       |                                  | 2.8        | 2.9 | 2.8           | 2.9      |
| AA2.03 | Fire alarm                                                                            |                                  | 2.8        | 3.2 | 2.8           | 3.2      |
| AA2.04 | The fire's extent of potential operational damage to plant equipment                  |                                  | 2.8        | 3.1 | 2.8           | 3.1      |
| AA2.05 | Ventilation alignment necessary to secure affected area                               |                                  | 2.9        | 3.0 | 2.9           | 3.0      |
| AA2.06 | Need for pressurizing control room (recirculating mode)                               |                                  | 2.5        | 2.8 | 2.5           | 2.8      |
| AA2.07 | Whether malfunction is due to common-mode electrical failures                         |                                  | 2.6        | 3.0 | 2.6           | 3.0      |
| AA2.08 | Limits of affected area                                                               |                                  | 0          | 0   | 0             | 0        |
| AA2.09 | That a failed fire alarm detector exists                                              |                                  | 2.4        | 2.8 | 2.4           | 2.8      |
| AA2.10 | Time limit of long-term-breathing air system for control room                         |                                  | 2.9        | 3.1 | 2.9           | 3.1      |
| AA2.11 | Time limit for use of respirators                                                     |                                  | 2.9        | 3.0 | 2.9           | 3.0      |
| AA2.12 | Location of vital equipment within fire zone                                          |                                  | 3.1        | 3.5 | 3.1           | 3.5      |
| AA2.13 | Need for emergency plant shutdown                                                     |                                  | 3.2        | 3.8 | 3.2           | 3.8      |
| AA2.14 | Equipment that will be affected by fire suppression activities in each zone           |                                  | 3.0        | 3.6 | 3.0           | 3.6      |
| AA2.15 | Requirements for establishing a fire watch                                            |                                  | 2.3        | 3.5 | 2.3           | 3.5      |
| AA2.16 | Vital equipment and control systems to be maintained and operated during a fire       |                                  | 3.0        | 3.5 | 3.0           | 3.5      |
| AA2.17 | Systems that may be affected by the fire                                              |                                  | 3.1        | 3.6 | 3.1           | 5        |

June 6, 2006

Mr. Christopher M. Crane President and Chief Nuclear Officer Exelon Nuclear Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

#### SUBJECT: CONFIRMATION OF REQUESTED INITIAL OPERATOR LICENSE EXAMINATIONS: NRC REGION III EXELON STATIONS

Dear Mr. Crane:

In a letter dated September 30, 2005 (RS-05-122), your staff responded to Regulatory Issue Summary 2005-19 and requested we schedule initial license operator examinations for the Exelon Nuclear Plants. This letter confirms the requested examinations at the Region III power plants. Some dates are different than those requested in your letter. The individual station training departments have been notified by telephone of the schedule differences. We have tentatively scheduled the requested examinations to occur as follows:

| Station     | 2006                  | 2007                  | 2008                | 2009                  |
|-------------|-----------------------|-----------------------|---------------------|-----------------------|
| Braidwood   | 5/15/2006             | 12/3 &<br>12/10/2007  | 3/3 &<br>3/10/2008  | N/R                   |
| Byron       | 6/19 &<br>6/26/2006   | N/R                   | 5/19 &<br>5/26/2008 | 8/24 &<br>8/31/2009   |
| Clinton     | N/R                   | 8/13 &<br>8/20/2007   | N/                  | 8/31 &<br>9/07/2009   |
| Dresden     | 02/06/2006            | 4/23 &<br>4/30/2007   | 7/14 &<br>7/21/2008 | 10/12 &<br>10/19/2009 |
| LaSalle     | 11/13 &<br>11/20/2006 | N/R                   | 8/18 &<br>8/25/2008 | N/R                   |
| Quad Cities | N/R                   | 06/04 &<br>06/11/2007 | N/R                 | 05/25 &<br>06/01/2009 |

N/R - None Requested

On-site validation of the examinations is tentatively scheduled to occur approximately three weeks before each scheduled examination. In the unlikely event that we are unable to support the examination during the scheduled weeks, we will inform you and the affected station's training department immediately upon discovery of such conditions and make arrangements to administer the examination at a mutually acceptable date.

We understand that your staff will develop the proposed examinations with the exception of the November 2006 LaSalle Station examination, which will be developed by Region III examiners. Examinations scheduled for two weeks indicate a class size of ten or more candidates. Please inform us if the number of candidates declines below ten as this will impact the examination schedule. Please inform us at your earliest opportunity if you discover a need to change any of the dates of the scheduled examinations.

A supplementary letter will be sent to the station's training department approximately 120 days prior to the initial examination. The letter will provide the station with the chief examiner's name, an outline of examination security expectations, a list of the materials required by the NRC to conduct the examination, and it will reconfirm the examination dates and the number of candidates you have in the training program. If you have any questions concerning this information, please contact Mr. Dell McNeil of my staff at 630-829-9737.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the Electronic Reading Room page of the NRC's public Web site at <u>http://www.nrc.gov/reading-rm/adams.html</u>.

Sincerely,

#### /RA/

Hironori Peterson, Chief Operations Branch Division of Reactor Safety

Docket Nos. 50-456; 50-457 License Nos. NPF-72; NPF-77

See Attached Distributions

We understand that your staff will develop the proposed examinations with the exception of the November 2006 LaSalle Station examination, which will be developed by Region III examiners. Examinations scheduled for two weeks indicate a class size of ten or more candidates. Please inform us if the number of candidates declines below ten as this will impact the examination schedule. Please inform us at your earliest opportunity if you discover a need to change any of the dates of the scheduled examinations.

A supplementary letter will be sent to the station's training department approximately 120 days prior to the initial examination. The letter will provide the station with the chief examiner's name, an outline of examination security expectations, a list of the materials required by the NRC to conduct the examination, and it will reconfirm the examination dates and the number of candidates you have in the training program. If you have any questions concerning this information, please contact Mr. Dell McNeil of my staff at 630-829-9737.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the Electronic Reading Room page of the NRC's public Web site at <u>http://www.nrc.gov/reading-rm/adams.html</u>.

Sincerely,

/RA/

Hirorfori Peterson, Chief Operations Branch Division of Reactor Safety

Docket Nos. 50-456; 50-457 License Nos. NPF-72; NPF-77

See Attached Distributions

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Docket Nos. 50-237; 50-249 License Nos. DPR-19; DPR-25

cc: Site Vice President - Dresden Nuclear Power Station Dresden Nuclear Power Station Plant Manager Regulatory Assurance Manager - Dresden C. Symonds, Training Director, Dresden Nuclear Power Station

Docket Nos. 50-373; 50-374 License Nos. NPF-11; NPF-18

cc: Site Vice President - LaSalle County Station LaSalle County Station Plant Manager Regulatory Assurance Manager - LaSalle County Station Senior Vice President - Mid-West Regional Operating Group Manager Licensing - Clinton and LaSalle R. Ebright, Sr., Training Director, LaSalle County Station

Docket Nos. 50-254; 50-265 License Nos. DPR-29; DPR-30

cc: Site Vice President - Quad Cities Nuclear Power Station Plant Manager - Quad Cities Nuclear Power Station Regulatory Assurance Manager - Quad Cities Nuclear Power Station Manager Licensing - Dresden and Quad Cities Vice President - Law and Regulatory Affairs Mid American Energy Company State Liaison Officer, State of Illinois State Liaison Officer, State of Illinois D. Tubbs, Manager of Nuclear MidAmerican Energy Company R. Armitage, QCNPP Training Director

Site Vice President - Braidwood Station cC: Plant Manager - Braidwood Station Regulatory Assurance Manager - Braidwood Station Chief Operating Officer Senior Vice President - Nuclear Services Vice President - Operations Support Vice President - Licensing and Regulatory Affairs **Director Licensing** Manager Licensing - Braidwood and Byron Senior Counsel, Nuclear, Mid-West Regional **Operating Group Document Control Desk - Licensing** Assistant Attorney General Illinois Emergency Management Agency State Liaison Officer - State of Illinois Chairman. Illinois Commerce Commission C. Dunn, Training Director, Braidwood Station

Docket Nos. 50-454; 50-455 License Nos. NPF-37; NPF-66

cc: Site Vice President - Byron Station Plant Manager - Byron Station Regulatory Assurance Manager - Byron Station State Liaison Officer, State of Wisconsin Chairman, Illinois Commerce Commission B. Quigley, Byron Station S. Sitmac, Training Director, Byron Station

Docket No. 50-461 License No. NPF-62

cc: Site Vice President - Clinton Power Station Plant Manager - Clinton Power Station Regulatory Assurance Manager - Clinton Power Station Manager Licensing - Clinton Power Station Senior Counsel, Nuclear, Mid-West Regional Operating Group J. Lindsey, Training Director, Clinton Power Station

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RIS 2005-19

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RS-05-122 2130-05-20179 5928-05-20277

September 30, 2005

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

> Braidwood Station, Units 1 and 2 Facility Operating License Nos. NPF-72 and NPF-77 NRC Docket Nos. STN 50-456 and STN 50-457

> Byron Station, Units 1 and 2 Facility Operating License Nos. NPF-37 and NPF-66 NRC Docket Nos. STN 50-454 and STN 50-455

Clinton Power Station, Unit 1 Facility Operating License No. NPF-62 NRC Docket No. 50-461

Dresden Nuclear Power Station, Units 2 and 3 Renewed Facility Operating License Nos. DPR-19 and DPR-25 NRC Docket Nos. 50-237 and 50-249

LaSalle County Station, Units 1 and 2 Facility Operating License Nos. NPF-11 and NPF-18 NRC Docket Nos. 50-373 and 50-374

Limerick Generating Station, Units 1 and 2 Facility Operating License Nos. NPF-39 and NPF-85 NRC Docket Nos. 50-352 and 50-353

Oyster Creek Generating Station Facility Operating License No. DPR-16 NRC Docket No. 50-219

Peach Bottom Atomic Power Station, Units 2 and 3 Renewed Facility Operating License Nos. DPR-44 and DPR-56 NRC Docket Nos. 50-277 and 50-278

Three Mile Island Nuclear Station, Unit 1 Facility Operating License No. DPR-50 NRC Docket No. 50-289 Response to RIS 2005-19 September 30, 2005 Page 2

| Quad Cities Nuclear Power Station, Units 1 and 2          |
|-----------------------------------------------------------|
| Renewed Facility Operating License Nos. DPR-29 and DPR-30 |
| NRC Docket Nos. 50-254 and 50-265                         |

- Subject: Response to NRC Regulatory Issue Summary 2005-19 "Preparation and Scheduling of Operator Licensing Examinations"
- Reference: NRC Regulatory Issue Summary (RIS) 2005-19, "Preparation and Scheduling of Operator Licensing Examinations," dated August 24, 2005.

In the Reference letter, the NRC requested licensees to voluntarily submit a response concerning initial operator licensing examination needs, including an estimate of the number of applicants to be examined and intentions regarding the preparation of the examinations.

Attachments 1 through 10 provide the responses to RIS 2005-19 for the Exelon Generation Company, LLC (Exelon) and AmerGen Energy Company, LLC (AmerGen) plants identified above. The operator licensing examination information for each facility is provided on a separate NRC Form 536.

During Calendar Year (CY) 2007, a total of 6 candidates are expected to take the dual site Limited Senior Reactor Operator (LSRO) initial license examination as indicated in Attachment 6. The schedule for the indicated exam is as follows: the written exam and part of the operating exam will be given at Limerick Generating Station (LGS); the remainder of the operating exam will be completed at Peach Bottom Atomic Power Station (PBAPS). Since the LSRO exam is a dual site exam that involves both LGS and PBAPS, rather than repeating the same information on both attachments, the exam scheduling information is provided on Attachment 6 for LGS only and Attachment 8 for PBAPS references Attachment 6.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

9. 6. Heller

David P. Helker Manager, Licensing & Regulatory Affairs Exelon Generation Company, LLC AmerGen Energy Company, LLC

Attachments

Attachment 1 – Completed NRC Form 536 for Braidwood Station Attachment 2 – Completed NRC Form 536 for Byron Station Attachment 3 – Completed NRC Form 536 for Clinton Power Station Attachment 4 – Completed NRC Form 536 for Dresden Nuclear Power Station Attachment 5 – Completed NRC Form 536 for LaSalle County Station Attachment 6 – Completed NRC Form 536 for Limerick Generating Station Attachment 7 – Completed NRC Form 536 for Oyster Creek Generating Station Attachment 8 – Completed NRC Form 536 for Peach Bottom Atomic Power Station Attachment 9 – Completed NRC Form 536 for Three Mile Island Nuclear Station – Unit 1 Attachment 10 – Completed NRC Form 536 for Quad Cities Nuclear Power Station

Attachment 3 Page 1 of 1

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| NRC FORM 536<br>(8-2005)                                                          |                                                                                                                                                                                                                                                                                                                                                                              | U.                     | S NUCLEAR REGUL | ATORY CO | MMISSIO     | N APPROVED BY<br>Estimated burder | OMB NO 3150-0131 | 0 v with the unit |                                                                                        | EXPIRES: 08/31/20                                                                                                                                                  |
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|                                                                                   | OPERATOR LICENSING<br>EXAMINATION DATA<br>EXAMINATION DATA<br>Defension of the second state of the Records and FOIA/Phyacy Service<br>Nuclear Regulatory Affairs, NEOB-10202, 13150-0131<br>Budget, Washington, DC 2050, 14 ameans used<br>collection does not display a currently valid OMB of<br>not conduct or sponsor, and a person is not requirinformation collection. |                        |                 |          |             |                                   |                  |                   | s used<br>anch (<br>55-00<br>55-00<br>c Office<br>of num<br>pose (<br>of num<br>prespo | information<br>garding burden<br>T-5 F53). U.S.<br>01. or by internet<br>e of information<br>Managementi and<br>an information<br>foet, the NRC may<br>and to, the |
| FACILITY                                                                          |                                                                                                                                                                                                                                                                                                                                                                              |                        |                 |          |             | <u> </u>                          |                  |                   | NR                                                                                     | C REGION                                                                                                                                                           |
| Clinton Power Station, Uni<br>Facility Operating License<br>NRC Docket No. 50-461 |                                                                                                                                                                                                                                                                                                                                                                              |                        |                 |          | F-62        |                                   |                  |                   |                                                                                        | III                                                                                                                                                                |
| A. PROPO                                                                          | SED EXA                                                                                                                                                                                                                                                                                                                                                                      | MINATION P             | PREPARATIC      | ON SCH   | EDUL        | .E                                |                  |                   |                                                                                        |                                                                                                                                                                    |
| PRC                                                                               | POSED NU                                                                                                                                                                                                                                                                                                                                                                     | MBER                   | CY <u>2</u>     | 006      | 1           | CY 2007                           | CY 2             | 008               |                                                                                        | CY <u>2009</u>                                                                                                                                                     |
| ESTI<br>LIC                                                                       | MATED NUM<br>ENSEE-PREI<br>EXAMINATIC                                                                                                                                                                                                                                                                                                                                        | BER OF<br>PARED<br>INS | 0               |          |             | 1                                 | 0                |                   |                                                                                        | 1                                                                                                                                                                  |
| ESTI<br>N                                                                         | MATED NUM<br>NRC-PREPAR<br>EXAMINATIO                                                                                                                                                                                                                                                                                                                                        | BER OF<br>RED<br>NS    | 0               |          |             | 0                                 | 0                |                   | 0                                                                                      |                                                                                                                                                                    |
| B. INITIAL                                                                        | OPERATO                                                                                                                                                                                                                                                                                                                                                                      |                        | EXAMINAT        | ONS      |             |                                   |                  |                   |                                                                                        |                                                                                                                                                                    |
| PROPOSED NUMBER                                                                   |                                                                                                                                                                                                                                                                                                                                                                              |                        | CY 2006         |          |             | CY <u>2007</u>                    | CY <u>2008</u>   |                   | CY <u>2009</u>                                                                         |                                                                                                                                                                    |
| NUMBER OF REACTOR<br>OPERATORS                                                    |                                                                                                                                                                                                                                                                                                                                                                              | 0                      |                 | 5        |             | 0                                 |                  | 5                 |                                                                                        |                                                                                                                                                                    |
| NUMBER                                                                            | OF SENIOR<br>RATORS-INS                                                                                                                                                                                                                                                                                                                                                      | REACTOR                | 0               |          | 4           |                                   | 0                |                   | 3                                                                                      |                                                                                                                                                                    |
| NUMBER<br>OPEF                                                                    | OF SENIOR                                                                                                                                                                                                                                                                                                                                                                    | REACTOR                | 0               |          | 3           |                                   | 0                |                   | 4                                                                                      |                                                                                                                                                                    |
| NUMBER                                                                            | OF SENIOR<br>RATORS-LIN                                                                                                                                                                                                                                                                                                                                                      | REACTOR                | 0               |          | 0           |                                   | 0                |                   | 0                                                                                      |                                                                                                                                                                    |
| PRC                                                                               | POSED DA                                                                                                                                                                                                                                                                                                                                                                     | TES                    |                 |          |             |                                   |                  |                   |                                                                                        |                                                                                                                                                                    |
| PRIMARY DATE                                                                      |                                                                                                                                                                                                                                                                                                                                                                              | N/A                    | N/A             |          | eek of 8/20 | N/A                               |                  | Week of 8/24      |                                                                                        |                                                                                                                                                                    |
| ALTERNATE DATE                                                                    |                                                                                                                                                                                                                                                                                                                                                                              | N/A                    |                 | W        | eek of 8/27 | N/A                               |                  | Week of 8/31      |                                                                                        |                                                                                                                                                                    |
| . PROPOS                                                                          | ED GENE                                                                                                                                                                                                                                                                                                                                                                      | RIC FUNDA              | MENTALS E       | KAMINA   | TION        | (GFE) SCH                         | EDULE            |                   |                                                                                        |                                                                                                                                                                    |
| ROPOSED                                                                           |                                                                                                                                                                                                                                                                                                                                                                              | CI                     | ( <u>2006</u>   |          |             |                                   | CY               | 2007              |                                                                                        |                                                                                                                                                                    |
| NUMBER                                                                            | MARCH                                                                                                                                                                                                                                                                                                                                                                        | JUNE                   | SEPTEMBER       | DECEN    | BER         | MARCH                             | JUNE             | SEPTEMB           | ER                                                                                     | DECEMBER                                                                                                                                                           |
| ESTIMATED<br>JUMBER OF<br>ANDIDATES                                               | 0                                                                                                                                                                                                                                                                                                                                                                            | 9                      | 0               | 0        |             | 0                                 | 0                | 0 ·               |                                                                                        | 0                                                                                                                                                                  |