

INITIAL SUBMITTAL

**BROWNS FERRY EXAM
50-259, 260, 296/2001-301**

SEPTEMBER 17-21, 2001

INITIAL SUBMITTAL

**INITIAL OUTLINE SUBMITTALS
NRC SUBMITTED/WRITTEN OUTLINES**

Facility:		Date of Exam:		Exam Level:									
Tier	Group	K/A Category Points											Point Total
		K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	
1. Emergency & Abnormal Plant Evolutions	1	3	2	1				5	1			1	13
	2	3	6	2				4	2			2	19
	3		1	1				1				1	4
	Tier Totals	6	9	4				10	3			4	36
2. Plant Systems	1	4	2	3	3	2	3	3	1	3	2	2	28
	2	3	1	2	3	2	3	1	1	1	1	1	19
	3			1			1	1	1				4
	Tier Totals	7	3	6	6	4	6	5	4	4	3	3	51
3. Generic Knowledge and Abilities							Cat 1	Cat 2	Cat 3	Cat 4	13		
							4	2	2	5			
Note:	<p>1. Ensure that at least two topics from every K/A category are sampled within each tier (i.e., the "Tier Totals" in each K/A category shall not be less than two).</p> <p>2. Actual point totals must match those specified in the table.</p> <p>3. Select topics from many systems; avoid selecting more than two or three K/A topics from a given system unless they relate to plant-specific priorities.</p> <p>4. Systems/evolutions within each group are identified on the associated outline.</p> <p>5. The shaded areas are not applicable to the category/tier.</p> <p>6.* The generic K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.</p> <p>7. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings for the RO license level, and the point totals for each system and category. K/As below 2.5 should be justified on the basis of plant-specific priorities. Enter the tier totals for each category in the table above.</p>												

ES-401		BWR RO Examination Outline Emergency and Abnormal Plant Evolutions - Tier 1/Group 1						Form ES-401-2	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Points
295005 Main Turbine Generator Trip / 3	01						Pressure effects on reactor power	4.0/4.1	1
295006 SCRAM / 1	01						Decay heat generation and removal	3.7/3.9	1
295007 High Reactor Pressure / 3				05			Reactor/turbine pressure regulating system	3.7/3.8	1
295009 Low Reactor Water Level / 2				04			Reactor Water Cleanup	2.7/2.7	1
295010 High Drywell Pressure / 5		01					Suppression pool level	3.2/3.3	1
295014 Inadvertent Reactivity Addition / 1	03						Localized heating RO ONLY	3.0/3.3	1
295015 Incomplete SCRAM / 1				01			CRD hydraulics	3.8/3.9	1
295024 High Drywell Pressure / 5				04			RHR/LPCI	4.1/3.9	1
295025 High Reactor Pressure / 3						2.1.28	Knowledge of the purpose and function of major system components and controls.	3.2/3.3	1
295031 Reactor Low Water Level / 2			05				Emergency depressurization	4.2/4.3	1
295037 SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1		01			01		RPS Reactor power	4.2/4.3 4.2/4.3	1 1
500000 High Containment Hydrogen Conc. / 5				05			Wetwell sprays	3.3/3.3	1
K/A Category Totals:	3	2	1	5	1	1	Group Point Total:		13

ES-401		BWR RO Examination Outline Emergency and Abnormal Plant Evolutions - Tier 1/Group 2						Form ES-401-2	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Points
295001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4				01			Recirculation system	3.5/3.6	1
295002 Loss of Main Condenser Vacuum / 3			03				Turbine Trip	3.4/3.4	1
295003 Partial or Complete Loss of AC Pwr / 6	01						Effect of battery discharge rate on capacity	2.7/2.9	1
295004 Partial or Total Loss of DC Pwr / 6		03					D.C. bus loads	3.3/3.3	1
295008 High Reactor Water Level / 2		02					Reactor feedwater system	3.6/3.8	1
295011 High CTMT Temperature / 5									
295012 High Drywell Temperature / 5						2.1.2	Knowledge of operator responsibilities during all modes of plant operation.(CFR: 41.10 / 45.13) RO ONLY	3.0/4.0	1
295013 High Suppression Pool Temp. / 5			01				Suppression pool cooling operation	3.6/3.8	1
295016 Control Room Abandonment / 7				02			Reactor/turbine pressure regulating system	2.9/3.1	1
295017 High Off-site Release Rate / 9									
295018 Partial or Complete Loss of CCW / 8		02					Plant Operations (CFR: 41.5 / 45.6) RO ONLY	3.4/3.6	1
295019 Partial or Total Loss of Inst. Air / 8				01			Backup air supply	3.5/3.3	1
295020 Inadvertent Cont. Isolation / 5 & 7		03					Drywell/containment ventilation/cooling: Plant- Specific	3.1/3.3	1
295022 Loss of CRD Pumps / 1	02						Reactivity Control (CFR: 41.8 to 41.10) RO ONLY	3.6/3.7	1
295026 High Suppression Pool Water Temp. / 5		01					Suppression pool cooling RO ONLY	3.9/4.0	1
295027 High Containment Temperature / 5									
295028 High Drywell Temperature / 5	02						Equipment environmental qualification	2.9/3.1	1
295029 High Suppression Pool Water Level / 5					01		Suppression pool water level RO ONLY	3.9/3.9	1
295030 Low Suppression Pool Water Level / 5									
295033 High Sec. Cont. Area Rad. Levels / 9				04			SBGT	4.2/4.2	1
295034 Sec. Cont. Ventilation High Rad. / 9		02					Area radiation monitoring system	3.8/3.9	1
295038 High Off-site Release Rate / 9					01		Off site	3.3/4.3	1
600000 Plant Fire On Site / 8						2.1.27	Knowledge system purpose and or function	2.8/2.9	1
K/A Category Point Totals:	3	6	2	4	2	2	Group Point Total:		19

ES-401

BWR RO Examination Outline
Emergency and Abnormal Plant Evolutions - Tier 1/Group 3

Form ES-401-2

E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Points
295021 Loss of Shutdown Cooling / 4				03			Adequate core cooling	3.9/3.9	1
295023 Refueling Accidents / 8						2.1.1	Knowledge of conduct of operations requirements. RO ONLY	3.7/3.8	1
295032 High Secondary Containment Area Temperature / 5			03				Isolating affected systems	3.8/3.9	1
295035 Secondary Containment High Differential Pressure / 5							Radwaste	3.1/3.4	1
295036 Secondary Containment High Sump/Area Water Level / 5		01					equipment and floor drain system. RO ONLY	3.1/3.2	
K/A Category Point Totals:		1	1	1		1	Group Point Total:		4

ES-401		BWR RO Examination Outline Plant Systems - Tier 2/Group 1											Form ES-401-2	
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G	K/A Topic(s)	Imp.	Points
201001 CRD Hydraulic										04		CRD pumps Drive water header pressure control valve	3.1/3.0	1
201002 RMCS	05											Rod worth minimizer RO ONLY	3.4/3.5	1
202002 Recirculation Flow Control				02							2.4.3	Recirculation pump speed control identify post-accident instrumentation.	3.0/3.0 3.5/3.8	1 1
203000 RHR/LPCI: Injection Mode			02									Suppression pool level	3.5/3.5	1
206000 HPCI							03					Condensate storage tank level	3.5/3.6	1
209001 LPCS		03										Initiation logic	2.9/3.1	1
211000 SLC						03						A.C. power	3.2/3.3	1
212000 RPS				07								Manual System Activation	4.1/4.1	1
215003 IRM			01									RPS	3.9/4.0	1
215004 SRM						02						24/48 volt D.C. power	3.1/3.2	1
215005 APRM / LPRM								03				Inoperative trip (all causes)	3.6/3.8	1
216000 Nuclear Boiler Instrumentation		01								01		Analog trip system: Plant-Specific RO ONLY Recorders	2.8/2.8 3.3/3.1	1 1
217000 RCIC					02				04			Flow indication system flow	3.1/3.1 3.6/3.5	1 1
218000 ADS					01						2.3.2	ADS logic operation Knowledge of ALARA - .RO ONLY	3.8/3.8 2.5/2.9	1 1
223001 Primary CTMT and Auxiliaries			03						04			Contain/drywell pressure: Plant-Specific Contain/drywell hydrogen concentration RO ONLY	3.4/3.5 3.5/3.6	1 1
223002 PCIS/Nuclear Steam Supply Shutoff	07											Reactor core isolation cooling;	3.4/3.6	1
239002 SRVs									08			Tail pipe temperatures	3.6/3.6	1
241000 Reactor/Turbine Pressure Regulator	27											Condenser vacuum	3.1/3.1	1
259001 Reactor Feedwater							06					Feedwater heater level	2.7/2.7	1
259002 Reactor Water Level Control	04						01					Reactor feedwater flow Reactor water level	3.5/3.6 3.8/3.8	1 1
261000 SGTS						09						Primary containment high pressure	3.1/3.3	1
264000 EDGs				01								Emergency generator trips (normal)	3.5/3.7	1
K/A Category Point Totals:	4	2	3	3	2	3	2	2	3	2	2	Group Point Total:		28

ES-401		BWR RO Examination Outline Plant Systems - Tier 2/Group 2											Form ES-401-2	
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G	K/A Topic(s)	Imp.	Points
201003 Control Rod and Drive Mechanism	02											Reactor Water	2.9/3.0	1
201004 RSCS						03						Rod movement information	3.2/3.2	1
201006 RWM														
202001 Recirculation							07					Recirculation pump speed	2.7/2.8	1
204000 RWCU										05		System Pressure RO ONLY	2.9/2.8	1
205000 Shutdown Cooling						08						RHR service water: Plant-Specific RO ONLY	3.5/3.7	1
214000 RPIS														
215002 RBM	01											APRM RO ONLY	2.9/3.0	1
219000 RHR/LPCI: Torus/Pool Cooling Mode														
226001 RHR/LPCI: CTMT Spray Mode			02									Contt/drywell/suppression chamber temp	3.5/3.5	1
230000 RHR/LPCI: Torus/Pool Spray Mode								05				A.C. electrical failures	3.3/3.6	1
239001 Main and Reheat Steam														
245000 Main Turbine Gen. and Auxiliaries			04									Reactor feedwater system	3.3/3.5	1
256000 Reactor Condensate		01										System pumps	2.7/2.8	1
262001 AC Electrical Distribution														
262002 UPS (AC/DC)				01								Transfer from preferred power to alternate power supplies RO ONLY	3.1/3.4	1
263000 DC Electrical Distribution						01						A.C. electrical distribution	3.2/3.5	1
271000 Offgas					06							Catalytic recombination	2.7/2.7	1
272000 Radiation Monitoring											2.3.1	Knowledge of 10 CFR: 20 and related facility radiation control requirements.	2.6/3.0	1
286000 Fire Protection				02								Pumps Automatic system initiation	3.3/3.5	1
290001 Secondary CTMT									01			Secondary containment isolation	3.9/4.0	1
290003 Control Room HVAC				01								System initiations/reconfiguration	3.1/3.2	1
300000 Instrument Air					01							Air compressors RO ONLY	2.5/2.5	1
400000 Component Cooling Water	01											Service water system RO ONLY	3.2/3.3	1
K/A Category Point Totals:	3	1	2	3	2	3	1	1	1	1	1	Group Point Total:		19

ES-401		BWR RO Examination Outline Plant Systems - Tier 2/Group 3											Form ES-401-2	
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G	K/A Topic(s)	Imp.	Points
215001 Traversing In-core Probe							03					Valve status: Mark-I&II	2.6/2.8	1
233000 Fuel Pool Cooling and Cleanup			01									Fuel pool temperature	3.2/3.4	1
234000 Fuel Handling Equipment														
239003 MSIV Leakage Control						03						Nuclear boiler instrumentation	2.6/2.9	1
268000 Radwaste														
288000 Plant Ventilation														
290002 Reactor Vessel Internals								01				LOCA RO ONLY	3.7/4.0	1
K/A Category Point Totals:			1			1	1	1				Group Point Total:		4
Plant-Specific Priorities														
System / Topic	Recommended Replacement for...						Reason						Points	
Plant-Specific Priority Total: (limit 10)														

Facility: BFN		Date of Exam:	Exam Level:RO	
Category	K/A #	Topic	Imp.	Points
Conduct of Operations	2.1.7	Ability to evaluate plant performance based on operating characteristic RO ONLY	3.7/4.0	1
	2.1.27	Knowledge of system purpose or function (CFR: 41.7) RO ONLY	2.8/2.9	
	2.1.28	Knowledge of the purpose and function of major system components and controls. (CFR: 41.7)	3.2/3.3	1
	2.1.29	Knowledge of how to conduct and verify valve lineups.(CFR: 41.10 / 45.1 / 45.12) RO ONLY	3.4/3.3	1
	Total			4
Equipment Control	2.2.3	(multi-unit) Knowledge of the design / procedural / and operational differences between units.(CFR: 41 / 43 / 45) RO ONLY	3.1/3.3	1
	2.2.13	Knowledge of tagging and clearance procedures.(CFR: 41.10 / 45.13) RO ONLY	3.6/3.8	1
	Total			2
Radiation Control	2.3.1	Knowledge of 10 CFR: 20 and related facility radiation control requirements. (CFR: 41.12 / 43.4. 45.9 / 45.10)	2.6/3.0	1
	2.3.2	Knowledge of facility ALARA program. (CFR: 41.12 / 43.4 / 45.9 / 45.10)	2.5/2.9	1
	Total			2
Emergency Procedures/ Plan	2.4.2	Knowledge of system set points / interlocks and automatic actions associated with EOP entry conditions.(CFR: 41.7 / 45.7 / 45.8) RO ONLY	3.9/4.1	1
	2.4.3	Ability to identify post-accident instrumentation. (CFR: 41.6 / 45.4)	3.5/3.8	1
	2.4.12	Knowledge of general operating crew responsibilities during emergency operations. (CFR: 41.10 / 45.12)	3.4/3.9	1
	2.4.17	Knowledge of EOP terms and definitions.(CFR: 41.10 / 45.13)	3.1/3.8	1
	2.4.27	Knowledge of fire in the plant procedures (CFR 41.10/43.5/45.13) RO ONLY	3.0/3.5	1
	Total			5
Tier 3 Point Total (RO)				13

Facility:		Date of Exam:		Exam Level:									
Tier	Group	K/A Category Points											Point Total
		K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	
1. Emergency & Abnormal Plant Evolutions	1	2	2	2				6	7			7	26
	2	2	5	2				4	2			2	17
	Tier Totals	4	7	4				10	9			9	43
2. Plant Systems	1	3	1	3	3	2	3	2	1	3	1	1	23
	2			2	2	1	3	2	1		1	1	13
	3	1	1	1				1					4
	Tier Totals	4	2	6	5	3	6	5	2	3	2	2	40
3. Generic Knowledge and Abilities				Cat 1		Cat 2		Cat 3		Cat 4		17	
				4		5		3		5			
<p>Note: 1. Ensure that at least two topics from every K/A category are sampled within each tier (i.e., the "Tier Totals" in each K/A category shall not be less than two).</p> <p>2. Actual point totals must match those specified in the table.</p> <p>3. Select topics from many systems; avoid selecting more than two or three K/A topics from a given system unless they relate to plant-specific priorities.</p> <p>4. Systems/evolutions within each group are identified on the associated outline.</p> <p>5. The shaded areas are not applicable to the category/tier.</p> <p>6.* The generic K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.</p> <p>7. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings for the RO license level, and the point totals for each system and category. K/As below 2.5 should be justified on the basis of plant-specific priorities. Enter the tier totals for each category in the table above.</p>													

ES-401		BWR SRO Examination Outline Emergency and Abnormal Plant Evolutions - Tier 1/Group 1						Form ES-401-1	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Points
295003 Partial or Complete Loss of AC Pwr / 6	01					2.4.16	Effect of battery discharge rate on capacity Knowledge of EOP implementation hierarchy and coordination with other support procedures. SRO ONLY	2.7/2.9 3.0/4.0	1 1
295006 SCRAM / 1	01						Decay heat generation and removal	3.7/3.9	1
295007 High Reactor Pressure / 3				05	02		Reactor/turbine pressure regulating system Reactor power SRO ONLY	3.7/3.8 4.1/4.1	1 1
295009 Low Reactor Water Level / 2				04			Reactor water cleanup	2.7/2.7	1
295010 High Drywell Pressure / 5		01				2.4.4	Suppression pool level are entry-level conditions for emergency and abnormal operating procedures. SRO ONLY	3.2/3.3 4.0/4.3	1 1
295013 High Suppression Pool Temp. / 5			01				Suppression pool cooling operation	3.6/3.8	1
295014 Inadvertent Reactivity Addition / 1					03		Cause of reactivity addition. SRO ONLY	4.0/4.3	1
295015 Incomplete SCRAM / 1				01			CRD hydraulics	3.8/3.9	1
295016 Control Room Abandonment / 7				02	06		Reactor/turbine pressure regulating system Cooldown rate SRO ONLY	2.9/3.1 3.3/3.5	1 1
295017 High Off-site Release Rate / 9									
295023 Refueling Accidents Cooling Mode / 8					05		Entry conditions of emergency plan SRO ONLY	3.2/4.6	1
295024 High Drywell Pressure / 5				04			RHR/LPCI	4.1/3.9	1
295025 High Reactor Pressure / 3						2.1.28	Knowledge of the purpose and function of major system components and controls.	3.2/3.3	1
295026 Suppression Pool High Water Temp. / 5					01		Suppression pool temperature. SRO ONLY	3.8/4.0	1
295027 High Containment Temperature / 5						2.4.11	Knowledge of abnormal condition procedures. SRO ONLY	3.4/3.6	1
295030 Low Suppression Pool Water Level / 5					01	2.1.32	Suppression pool level (SRO Exam ONLY - not SRO level only) Ability to explain and apply system limits and precautions. SRO ONLY	4.1/4.2 3.4/3.8	1
295031 Reactor Low Water Level / 2			05				Emergency depressurization	4.2/4.3	1
295037 SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1		01			01		RPS Reactor power	4.2/4.3 4.2/4.3	1 1
295038 High Off-site Release Rate / 9					01	2.4.7	Off site Knowledge of event based EOP mitigation strategies. SRO ONLY	3.3/4.3 3.1/3.8	1 1
500000 High Containment Hydrogen Conc. / 5				05			Wetwell sprays	3.3/3.3	1
K/A Category Totals:	2	2	3	5	7	7	Group Point Total:		26

ES-401		BWR SRO Examination Outline Emergency and Abnormal Plant Evolutions - Tier 1/Group 2						Form ES-401-1	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Points
295001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4				01			Recirculation system	3.5/3.6	1
295002 Loss of Main Condenser Vacuum / 3			03				Turbine Trip	3.4/3.4	1
295004 Partial or Total Loss of DC Pwr / 6		03					D.C. bus loads	3.3/3.3	1
295005 Main Turbine Generator Trip / 3	01						Pressure effects on reactor power	4.0/4.1	1
295008 High Reactor Water Level / 2		02					Reactor feedwater system	3.6/3.8	1
295011 High Containment Temperature / 5									
295012 High Drywell Temperature / 5									
295018 Partial or Total Loss of CCW / 8					04		System Flow. SRO ONLY	2.9/2.9	1
295019 Partial or Total Loss of Inst. Air / 8				01			Backup air supply	3.5/3.3	1
295020 Inadvertent Cont. Isolation / 5 & 7		03					Drywell/containment ventilation/cooling: Plant- Specific	3.1/3.3	1
295021 Loss of Shutdown Cooling / 4				03		2.2.6	Adequate core cooling Knowledge of the process for making changes in procedures as described in the safety analysis report. SRO ONLY	3.9/3.9 2.3/3.3	1 1
295022 Loss of CRD Pumps / 1					01		Accumulator pressure. SRO ONLY	3.5/3.6	1
295028 High Drywell Temperature / 5	02						Equipment environmental qualification	2.9/3.1	1
295029 High Suppression Pool Water Level / 5									
295032 High Secondary Containment Area Temperature / 5			03				Isolating affected systems	3.8/3.9	1
295033 High Sec. Cont. Area Rad. Levels / 9				04			SBGT	4.2/4.2	1
295034 Sec. Cont. Ventilation High Rad. / 9		02					Area radiation monitoring system	3.8/3.9	1
295035 Secondary Containment High Differential Pressure / 5		01					Radwaste	3.1/3.4	1
295036 Secondary Containment High Sump/Area Water Level / 5									
600000 Plant Fire On Site / 8						2.1.27	Knowledge system purpose and or function	2.8/2.9	1
K/A Category Point Totals:	2	5	2	4	2	2	Group Point Total:		17

ES-401

BWR SRO Examination Outline
Plant Systems - Tier 2/Group 1

Form ES-401-1

System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G	K/A Topic(s)	Imp.	Pts
201005 RCIS														
202002 Recirculation Flow Control				02							2.4.3	Recirculation pump speed control identify post-accident instrumentation.	3.0/3.0 3.5/3.8	1 1
203000 RHR/LPCI: Injection Mode			02									Suppression pool level	3.5/3.5	1
206000 HPCI							03					Condensate storage tank level	3.5/3.6	1
207000 Isolation (Emergency) Condenser														
209001 LPCS		03										Initiation logic	2.9/3.1	1
209002 HPCS														
211000 SLC						03						A.C. power	3.2/3.3	1
212000 RPS				07								Manual System Activation	4.1/4.1	1
215004 SRM						02						24/48 volt D.C. power	3.1/3.2	1
215005 APRM / LPRM								03				Inoperative trip (all causes)	3.6/3.8	1
216000 Nuclear Boiler Instrumentation										01		Recorders	3.3/3.1	1
217000 RCIC					02				04			Flow indication System Flow	3.1/3.1 3.6/3.5	1 1
218000 ADS					01							ADS logic operation	3.8/3.8	1
223001 Primary CTMT and Auxiliaries			03									Contain/drywell pressure: Plant-Specific	3.4/3.5	1
223002 PCIS/Nuclear Steam Supply Shutoff	07											Reactor core isolation cooling;	3.4/3.6	1
226001 RHR/LPCI: CTMT Spray Mode			02									Contt/drywell/suppression chamber temp	3.5/3.5	1
239002 SRVs									08			Tail pipe temperatures	3.6/3.6	1
241000 Reactor/Turbine Pressure Regulator	27											Condenser vacuum	3.1/3.1	1
259002 Reactor Water Level Control	04							01				Reactor feedwater flow Reactor water level	3.5/3.6 3.8/3.8	1 1
261000 SGTS						09						Primary containment high pressure	3.1/3.3	1
262001 AC Electrical Distribution														
264000 EDGs				01								Emergency generator trips (normal)	3.5/3.7	1
290001 Secondary CTMT									01			Secondary containment isolation	3.9/4.0	1

K/A Category Point Totals:	0	0	2	2	1	3	2	1	0	1	1	Group Point Total:	13
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BWR SRO Examination Outline Plant Systems - Tier 2/Group 3													Form ES-401-1	
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G	K/A Topic(s)	Imp.	Points
201003 Control Rod and Drive Mechanism	02											Reactor Water	2.9/3.0	1
215001 Traversing In-core Probe							03					Valve status: Mark-I&II	2.6/2.8	1
233000 Fuel Pool Cooling and Cleanup			01									Fuel pool temperature	3.2/3.4	1
239001 Main and Reheat Steam														
256000 Reactor Condensate		01										System pumps	2.7/2.8	1
268000 Radwaste														
288000 Plant Ventilation														
290002 Reactor Vessel Internals														
K/A Category Point Totals:	1	1	1				1					Group Point Total:		4
Plant-Specific Priorities														
System / Topic	Recommended Replacement for...						Reason					Points		
Plant-Specific Priority Total (limit 10):														

Facility: BFN		Date of Exam:	Exam Level: SRO	
Category	K/A #	Topic	Imp.	Points
Conduct of Operations	2.1.6	Ability to supervise and assume a management role during plant transients and upset conditions. (CFR: 43.5 / 45.12 / 45.13) SRO ONLY	2.1/4.3	1
	2.1.10	Knowledge of conditions and limitations in the facility license.(CFR: 43.1 / 45.13) SRO ONLY	2.7/3.9	1
	2.1.26	Knowledge of non-nuclear safety procedures (e.g. rotating equipment / electrical / high temperature / high pressure / caustic / chlorine / oxygen and hydrogen).(CFR: 41.10 / 45.12) SRO ONLY	2.2/2.6	1
	2.1.28	Knowledge of the purpose and function of major system components and controls. (CFR: 41.7)	3.2/3.3	1
	Total			4
Equipment Control	2.2.5	Knowledge of the process for making changes in the facility as described in the safety analysis report.(CFR: 43.3 / 45.13) SRO ONLY	1.6/2.7	1
	2.2.22	Knowledge of limiting condition for operations and safety limits.(CFR: 43.2 / 45.2) SRO ONLY	3.4/4.1	1
	2.2.26	Knowledge of refueling administrative requirements.(CFR: 43.5 / 45.13) SRO ONLY	2.5/3.7	1
	2.2.29	Knowledge of SRO fuel handling responsibilities. (CFR: 43.6 / 45.12) SRO ONLY	1.6/3.8	1
	2.2.33	Knowledge of control rod programming. (CFR: 43.6) SRO ONLY	2.5/2.9	1
	Total			5
Radiation Control	2.3.1	Knowledge of 10 CFR: 20 and related facility radiation control requirements. (CFR: 41.12 / 43.4. 45.9 / 45.10)	2.6/3.0	1
	2.3.2	Knowledge of facility ALARA program. (CFR: 41.12 / 43.4 / 45.9 / 45.10)	2.5/2.9	1
	2.3.10	Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure.(CFR: 43.4 / 45.10) SRO ONLY	2.9/3.3	1
	Total			3
Emergency Procedures/ Plan	2.4.1	Knowledge of EOP entry conditions and immediate action steps.(CFR: 41.10 / 43.5 / 45.13) SRO ONLY	4.3/4.6	1
	2.4.3	Ability to identify post-accident instrumentation. (CFR: 41.6 / 45.4)	3.5/3.8	1
	2.4.12	Knowledge of general operating crew responsibilities during emergency operations. (CFR: 41.10 / 45.12)	3.4/3.9	1
	2.4.17	Knowledge of EOP terms and definitions.(CFR: 41.10 / 45.13)	3.1/3.8	1
	2.4.29	Knowledge of the Emergency Plan (CFR 43.5/45.11) SRO ONLY	2.6/4.0	1
	Total			5
Tier 3 Point Total (SRO)				17