September 8, 2000

Mr. M. Wadley
Senior Vice President and
Chief Nuclear Officer
Nuclear Management Company
700 First Street
Hudson, WI 54016

SUBJECT: PRAIRIE ISLAND - NRC EXAMINATION REPORT 50-282/2000302(DRS); 50-306/2000302(DRS)

Dear Mr. Wadley:

A Nuclear Regulatory Commission (NRC) approved licensed operator test (retake) was administered to a Senior Reactor Operator applicant at your Prairie Island Nuclear Generating Plant on August 22, 2000. The applicant had failed the May 2000 initial licensed operator test. The retake test was graded and the results finalized on August 25, 2000. The applicant passed the test and was issued a Senior Reactor Operator license. The enclosed report presents the results of the test.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available **electronically** for public inspection in the NRC Public Document Room **or** from the *Publicly Available Records (PARS) component of NRC's document system (ADAMS)*. ADAMS is accessible from the NRC Web site at http://www.nrc.gov/NRC/ADAMS/index.html (the Public Electronic Reading Room). /RA/

We will gladly discuss any questions you have concerning this examination.

Sincerely
/RA/

David E. Hills, Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 50-282; 50-306
License Nos. DPR-42; DPR-60

Enclosures: 1. Operator Licensing Examination Report 50-282/2000302(DRS); 50-306/2000302(DRS)
2. Simulation Facility Report

See Attached Distribution
DOCUMENT NAME: G:DRS\PRA2000302DRS.WPD ML003749396
***See Previous Concurrence**
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OFFICE	RIII *		RIII *		RIII	N		
NAME	DMcNeil:sd		RLanksbury		DHills DMH			
DATE	09/ /00		09/ /00		09/ 8/00			

OFFICIAL RECORD COPY

September 8, 2000

Mr. M. Wadley
Senior Vice President and
Chief Nuclear Officer
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700 First Street
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David E. Hills, Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 50-282; 50-306
License Nos. DPR-42; DPR-60

Enclosures: 1. Operator Licensing Examination Report
50-282/00302(DRS); 50-306/00302(DRS)
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See Attached Distribution

DOCUMENT NAME: G:DRS\PRA2000302DRS.WPD
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OFFICE	RIII	N	RIII	E	RIII			
NAME	DMcNeil:sd		RLanksbury/MK		DHills			
DATE	09/8 /00		09/ 8/00		09/ /00			

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cc w/encls: Site General Manager, Prairie Island
Plant Manager, Prairie Island
J. Bernstein, Deputy Commissioner, Minnesota
Department of Public Service
State Liaison Officer, State of Wisconsin
Tribal Council, Prairie Island Dakota Community
J. Jensen, Training Department

ADAMS Distribution:
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TJK3 (Project Mgr.)
T. Frye, NRR
A. Madison, NRR
S. Stein, NRR
J. Dyer, RIII
J. Caldwell, RIII
B. Clayton, RIII
SRI Prairie Island
DRP
DRSIII
PLB1
JRK1
BAH3
MAB1

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: License Nos:	50-282; 50-306 DPR-42; DPR-60
Report Nos:	50-282/2000302(DRS); 50-306/2000302(DRS)
Licensee:	Nuclear Management Company, LLC
Facility:	Prairie Island Nuclear Generating Plant
Location:	1717 Wakonade Dr. East Welch, MN 55089
Date:	August 22, 2000
Examiner:	D. McNeil, Chief Examiner
Approved by:	David E. Hills, Chief Operations Branch Division of Reactor Safety

NRC's REVISED REACTOR OVERSIGHT PROCESS

The federal Nuclear Regulatory Commission (NRC) recently revamped its inspection, assessment, and enforcement programs for commercial nuclear power plants. The new process takes into account improvements in the performance of the nuclear industry over the past 25 years and improved approaches of inspecting and assessing safety performance at NRC licensed plants.

The new process monitors licensee performance in three broad areas (called strategic performance areas): reactor safety (avoiding accidents and reducing the consequences of accidents if they occur), radiation safety (protecting plant employees and the public during routine operations), and safeguards (protecting the plant against sabotage or other security threats). The process focuses on licensee performance within each of seven cornerstones of safety in the three areas:

Reactor Safety	Radiation Safety	Safeguards
• Initiating Events	• Occupational	• Physical Protection
• Mitigating Systems	• Public	
• Barrier Integrity		
• Emergency Preparedness		

To monitor these seven cornerstones of safety, the NRC uses two processes that generate information about the safety significance of plant operations: inspections and performance indicators. Inspection findings will be evaluated according to their potential significance for safety, using the Significance Determination Process, and assigned colors of GREEN, WHITE, YELLOW or RED. GREEN findings are indicative of issues that, while they may not be desirable, represent very low safety significance. WHITE findings indicate issues that are of low to moderate safety significance. YELLOW findings are issues that are of substantial safety significance. RED findings represent issues that are of high safety significance with a significant reduction in safety margin.

Performance indicator data will be compared to established criteria for measuring licensee performance in terms of potential safety. Based on prescribed thresholds, the indicators will be classified by color representing varying levels of performance and incremental degradation in safety: GREEN, WHITE, YELLOW, and RED. GREEN indicators represent performance at a level requiring no additional NRC oversight beyond the baseline inspections. WHITE corresponds to performance that may result in increased NRC oversight. YELLOW represents performance that minimally reduces safety margin and requires even more NRC oversight. And RED indicates performance that represents a significant reduction in safety margin but still provides adequate protection to public health and safety.

The assessment process integrates performance indicators and inspection so the agency can reach objective conclusions regarding overall plant performance. The agency will use an Action Matrix to determine in a systematic, predictable manner which regulatory actions should be taken based on a licensee's performance. The NRC's actions in response to the significance (as represented by the color) of issues will be the same for performance indicators as for inspection findings. As a licensee's safety performance degrades, the NRC will take more and increasingly significant action, which can include shutting down a plant, as described in the Action Matrix.

More information can be found at: http://www.nrc.gov/NRR/OVERSIGHT/index.html.

SUMMARY OF FINDINGS

ER 50-282/2000302(DRS); 50-306/2000302(DRS), on 08/21-22/2000; Nuclear Management Company, Prairie Island Nuclear Generating Station, Units 1 & 2, Initial Operator Licensing Activities. A retake initial license test was administered to a senior reactor operator license applicant who failed the May 2000, initial license test. The test was administered in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 8. This examination implemented the operator licensing requirements of 10 CFR §55.45.

- The applicant passed the retake test and was issued a senior reactor operator license. (Section 4OA5.1)

- The retake examination submitted by the licensee was outside the acceptable quality range expected by the NRC. Significant modification or replacement was required for two of the five job performance measures. (Section 4OA5.1)

Report Details

4. OTHER ACTIVITIES (OA)

4OA5 Other

.1 Initial Licensing Examinations

a. Inspection Scope

An NRC examiner conducted an announced operator licensing initial retake test on August 22, 2000. The Prairie Island Nuclear Generating Station (PINGS) training department developed the retake operating test. One senior reactor operator (upgrade) applicant was reexamined.

b. Findings

The examiner reviewed the applicant's remedial training program and found the program addressed the applicant's weaknesses identified during the May 2000 test. The applicant's performance during the test indicated the program was effective. The applicant passed all of the administrative job performance measures (JPMs) with no observed weaknesses.

The licensee provided the test outline and proposed test on schedule. However, the submitted retake examination was outside the acceptable quality range expected by the NRC. Significant modification was required for two of the five submitted JPMs. One JPM was replaced due to duplication from the applicant's audit test. The other JPM was modified because failure to perform the JPM would have raised questions regarding adequate justification for denying a license. Although the sample size (five JPMs) was small due to the limited scope of the retest, the examiner noted that the licensee has a history of submitting examinations that require considerable modification prior to administration. In particular, four of the five licensee submitted examinations (1997 to present) had quality problems sufficient to deem recognition in the respective examination report. The licensee would be expected to incorporate lessons learned from previous efforts.

The licensee did not submit any post-examination comments.

The examiners did not identify any significant security concerns associated with the development or administration of the test.

4OA6 Management Meetings

Exit Meeting Summary

The inspector presented preliminary examination observations to members of licensee management on August 22, 2000. The licensee acknowledged the issues presented. No proprietary information was identified.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

M. Jones, Nuclear Training Department Instructor
J. Kempkes, Nuclear Training Department Instructor
D. Schuelke, Plant Manager
T. Silverberg, General Superintendent Operations
D. Westphal, Operations Training Superintendent

NRC

S. Ray, Senior Resident Inspector

ITEMS OPENED, CLOSED AND DISCUSSED

Opened

None

Closed

None

Discussed

None

Enclosure 2

SIMULATION FACILITY REPORT

Facility Licensee: Prairie Island Nuclear Generating Station

Facility Licensee Docket Nos: 50-282/50-306

Operating Test Administered: August 22, 2000

The following documents observations made by the NRC examination team during the initial operator license examination. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of non-compliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information which may be used in future evaluations. No licensee action is required in response to these observations.

During the conduct of the simulator portion of the operating tests, the following items were observed:

ITEM	DESCRIPTION

1. None

July 13, 2000

Mr. M. Wadley
President, Nuclear Generation
Northern States Power Company
414 Nicollet Mall
Minneapolis, MN 55401

Dear Mr. Wadley:

In a telephone conversation on July 11, 2000, between Mr. Mark Jones and Mr. Dell McNeil, arrangements were made for the administration of an operator licensing retake examination at the Prairie Island Nuclear Generating Station on August 22, 2000.

As agreed during the telephone conversation, your staff will prepare the retake operating test (Administrative Job Performance Measures portion only) based on the guidelines in Revision 8 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.

To meet the above schedule, it will be necessary for your staff to furnish the test outline by July 14, 2000. The retake operating test, and the supporting reference materials will be due by July 24, 2000. Pursuant to 10 CFR 55.40(b)(3), an authorized representative of the facility licensee shall approve the outline and test before they are submitted to the NRC for review and approval. All materials shall be complete and ready-to-use. Any delay in receiving the outline, the test and the reference materials, or the submittal of inadequate or incomplete materials, may cause the test to be rescheduled.

In order to conduct the requested operating test, it will be necessary for your staff to provide adequate space and accommodations in accordance with ES-402. Appendix E of NUREG-1021 contains a number of NRC policies and guidelines that will be in effect while the operating test is being administered.

To permit timely NRC review and evaluation, your staff should submit a preliminary senior reactor operator license application (Office of Management and Budget (OMB) approval number 3150-0090), a medical certification (OMB approval number 3150-0024), and waiver requests (OMB approval number 3150-0090) at least 30 days before the 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 re-training has been completed should be submitted to the NRC chief examiner on August 21, 2000, during validation of the test materials at the Prairie Island Nuclear Generating Station.

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 3150-0101, which expires on September 30, 2000. The public reporting burden for this collection of information is estimated to average 50 hours per response, including the time for reviewing instructions, gathering and maintaining the data needed, writing the test, 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-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail at BJS1@NRC.GOV; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0101), Office of Management and Budget, Washington, DC 20503.

The NRC may not conduct or 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. Jones 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 Ms. Ann Marie Stone at (630) 829-9729, or me at (630) 829-9733.

Sincerely,

David E Hills

David E. Hills, Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 50-282; 50-306
License Nos. DPR-42; DPR-60

cc: Site General Manager, Prairie Island
Plant Manager, Prairie Island
J. Malcolm, Commissioner, Minnesota
Department of Health
State Liaison Officer, State of Wisconsin
Tribal Council, Prairie Island Dakota Community

DOCUMENT NAME: G:DRS\PRA071300DRS.WPD
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NAME	AStone:sd	AMS	DHills	DEH				
DATE	07/12/00		07/13/00					

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B. Clayton, RIII
SRI Prairie Island
DRP
RIDSRGN3DRS
RIII_IRTS
JRK1
BAH3
MAB1

Facility: Prairie Island Nuclear Generating Station Date of Examination: August 22, 2000

Examinations Developed by: (Facility) / NRC (circle one)

Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	drm
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	drm
-120	3. Facility contact briefed on security & other requirements (C.2.c)	drm
-120	4. Corporate notification letter sent (C.2.d)	drm
[-90]	[5. Reference material due (C.1.e; C.3.c)]	n/a
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	drm
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	drm
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	drm
-30	9. Preliminary license applications due (C.1.l; C.2.g; ES-202)	drm
-14	10. Final license applications due and assignment sheet prepared (C.1.l; C.2.g; ES-202)	drm
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	drm n/a
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	drm
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	drm
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	drm
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	n/a
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	drm

* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

[ ] Applies only to examinations prepared by the NRC.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 21 Aug 00 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC.Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of _____. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Mark J Jones	Facility Exam Development		7-11-00		8-22-00	
2.	JONATHAN R Johnson	INSTRUCTOR / EXAM DEV		7-11-00		8-23-00	
3.	Karen E Coulson	BPS / Admin		7-12-00		8-22-00	
4.	TERESA L DORSEY	BPS		7/12/00		8-22-00	
5.	Dennis Westphal	Operations Training Supt.		7/12/00		8/22/00	
6.	Patricia E. Smith	BPS / Admin		7/13/00		8/22/00	
7.	Todd Strain	Lead Reactor Operator		7-19-00		8/24/00	
8.	Jeff Baeumen	Lead Reactor Operator		7-21-00		8-23-00	
9.	John KEMPKES	INITIAL TRAINING LEAD INST		8-21-00		8-22-00	
10.	Brent Seely	RO		8-21-00		8-22-00	
11.							
12.							
13.							
14.							
15.							

NOTES:

Outline Submittal

Contains the following:

Outline Submittal Letter

ES-201-2	Examination Outline Quality Checklist
ES-301-1	Administrative Topics Outline (SRO)

July 13, 2000

Mr. Dell McNeil
NRC Region III
Division of Rx Safety – OLB
801 Warrenville Rd.
Lisle, IL 60532-4351

Dear Dell,

As agreed per our phone conversation on July 12, 2000, enclosed is the exam outline for the SRO retake admin walkthrough exam to be administered the week of August 21, 2000. Also attached is the ES-201 Quality Assurance Checklist.

Please withhold these materials from public disclosure until after the examinations are complete.

Thanks for your help thus far and if you have any questions regarding the exam outline, please call me at (651) 388-1165 x4031.

Sincerely,

Mark Jones
Senior Technical Instructor

enclosure: 1

Facility: Prairie Island Nuclear Generating Plant Date of Examination: 22 Aug 00

Item	Task Description	Initials a	b*	c
1. WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	NA	NA	NA
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	NA	NA	NA
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	NA	NA	NA
	d. Assess whether the repetition from previous examination outlines is excessive.	NA	NA	NA
2. SIM	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	NA	NA	NA
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated over successive days.	NA	NA	NA
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	NA	NA	NA
3. W/T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, NA (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	MH		
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, NA (2) one task is conducted in a low-power or shutdown condition, NA (3) 40% of the tasks require the applicant to implement an alternate path procedure, NA (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and NA (5) the in-plant walk-through requires the applicant to enter the RCA. NA	NA	NA	NA
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	MH		
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	MH		
4. GENERAL	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	MH		
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MH		
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MH		
	d. Check for duplication and overlap among exam sections.	MH		N/A
	e. Check the entire exam for balance of coverage.	MH		N/A
	f. Assess whether the exam fits the appropriate job level (RO or (SRO)).	MH		

	Printed Name / Signature	Date
a. Author	Mark J Jones / Mark J Jones	7-13-00
b. Facility Reviewer(*)	Dennis J. Westpha / Dennis J. Westpha	7-13-00
c. Chief Examiner	Dell R. McNutt / Dell R. McNutt	8/15/2000
d. NRC Supervisor	David E. Hills / David E. Hills	8/18/00

(*) Not applicable for NRC-developed examinations.

Facility: Prairie Island Nuclear Generating Plant Date of Examination: 22 Aug 2000
Examination Level (circle one): RO /(SRO) Operating Test Number: 2000302

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Fuel Handling *K/A 2.2.26* *(2.5/3.7)* *K/A 2.2.30* *(3.5/3.3)*	JPM A-1A Respond To Failed NI During Refueling (New JPM.)
		This JPM requires the candidate to respond to a source range instrument failure during Refueling. Response includes Tech Spec operability determination and alignment to other channel.
	Plant Parameter Verification *K/A 2.1.19* *(3.0/3.0)* *K/A 2.1.33* *(3.4/4.0)*	JPM A-1B: Perform RCS Leak Rate Determination (New JPM to be performed in conjunction with and at the completion of JPM A.2.)
		This JPM will perform the RCS leak rate calculation required at the end of JPM A.2 with the results being in excess of Tech Spec limits requiring a determination of plant shutdown required.
A.2	Familiarity With And Use Of Piping And Instrument Drawings *K/A 2.1.24* *(2.8/3.1)*	JPM A-2: Use P&IDs To Isolate System Leakage (New JPM to be performed in conjunction with and prior to JPM A.1B.)
		The plan for this JPM is to have a valve used to reduce RHR piping pressure in response to an alarm, fail to close requiring alternate isolation of the piping and RCS leak rate determination.
A.3	Radiation Exposure Limits And Contamination Control *K/A 2.3.10* *(2.9/3.3)*	JPM A-3 Prepare For Entry Into A Locked High Radiation Area (Bank JPM from 1999 RO NRC exam.)
		This JPM requires the candidate to obtain the keys, review the RWP, and make the necessary preparations for entering a locked high radiation area.
A.4	Emergency Action Levels And Classifications *K/A 2.4.38* *(2.2/4.0)*	JPM A-4: Perform Interim Emergency Director Actions (Modified JPM from last facility SRO NRC exam with different emergency, classification, and actions required.)
		The plan for this JPM is to have a bomb threat that will at least get the candidate into an NUE and require a local area plant evacuation.

Submitted Operating Test

Contains the following:

Initial Submittal Cover Letter
ES-301-3 Operating Test Quality Checklist
Five (5) administrative job performance measures
Five (5) administrative job performance measures with NRC comments

July 21, 2000

Mr. Dell McNeil
NRC Region III
Division of Rx Safety – OLB
801 Warrenville Rd.
Lisle, IL 60532-4351

Dear Dell,

As agreed per our phone conversation on July 12, 2000, enclosed is the Admin. JPM Exam, including references, and QA Form for the SRO retake admin walkthrough exam to be administered the week of August 21, 2000.

Please withhold these materials from public disclosure until after the examinations are complete.

Thanks for your help thus far and if you have any questions regarding the exam outline, please call me at (651) 388-1165 x4031.

Sincerely,

Mark Jones
Senior Technical Instructor

enclosure: 1

Facility:	Date of Examination:	Operating Test Number:		
	1. GENERAL CRITERIA	Initials a	b	c
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	MH	DH	DM
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	MH	DH	DM
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	MH	DH	DM
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	NA	NA	N/A
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	MH	DH	DM
	2. WALK-THROUGH (CATEGORY A & B) CRITERIA	–	–	–
a.	Each JPM includes the following, as applicable: · initial conditions · initiating cues · references and tools, including associated procedures · validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee · specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable	MH	DH	DM
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	MH	DH	N/A
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	MH	DH	DM
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	MH	DH	DM
	3. SIMULATOR (CATEGORY C) CRITERIA	–	–	–
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	NA	NA	N/A

	Printed Name / Signature /	Date
a. Author	Mark J Jones / MH	7-20-00
b. Facility Reviewer(*)	Dennis J. Westphal / DWestphal	7-20-00
c. NRC Chief Examiner (*)	Dell R McNeil / Dell R McNeil	8/15/2000
d. NRC Supervisor (*)	Paul E. Wilk / Paul E. Wilk	8/21/00

(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: RESPOND TO FAILED NI DURING REFUELING

JPM NUMBER: A-1A **REV.** 0

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SS 344.ATI.023 / CRO 015.ATI.002

K/A NUMBERS: 2.2.26 / 2.2.30

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/19/00

APPROVED BY: [signature] **DATE:** 7/20/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.
- The RO has performed the actions of C47013 and verified the detector voltage is low and requests that you as the Unit 1 SS, implement C51 for N31 failure low.
- Core geometry changes have been suspended and permission is being awaited to resume fuel transfer.

INITIATING CUES:

- As Unit 1 SS, implement C51 in response to N31 failed low during Refueling.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of D5.2 completed, including Appendix B, except for Section 7.2.

General References: C47013-0401, 1C51.1, D5.2

Task Standards: Tech Specs assessed with determination made that minimum channel operability still exists to allow continued refueling operations and audible count rate selected to N32.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical** _____	If power < 10^{-10} amps, then: a. Place reactor in Hot Shutdown or safer condition. b. Select NR 45 recorder to Intermediate Range for failed SR channel.
Standard:	NR 45 recorder selected to Intermediate Range for N31 (selector switch located on the front of the RO panel).
Evaluator Cue:	• **If examinee directs RO to select N45 recorder to Intermediate Range for N31, acknowledge direction, then inform examinee that, "N45 is selected to Intermediate Range for N31."** • **If examinee indicates that he/she would select N45 recorder to Intermediate Range for N31 and indicates where it would be done from, inform examinee that, "N45 recorder is selected to Intermediate Range."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If in refueling mode, then: a. Suspend all core geometry changes. b. Refer to Technical Specifications T.S.3.8.
Standard:	a. Core geometry changes suspended. b. T.S.3.8 reviewed and determination made that minimum required operable instrumentation exists to allow continued refueling operations.
Evaluator Note:	• **Examinee should, by review of D5.2 and/or observation of indications, determine that N32, N51, and N52 are all operable, and then either by review of D5.2 or Tech Spec requirements, determine that the minimum required instrument channels (2 source range required) are operable (N32, N51, and N52 are operable).** • **Examinee should also determine that once N32 is selected for audible count rate indication in Containment, refueling operations may continue.**
Evaluator Cue:	**a. If examinee indicates that he/she would suspend core geometry changes, inform examinee that, "per initial conditions, core geometry changes have been suspended."** **b. If examinee asks about the status of N32, N51, or N52, inform examinee that, "whatever status is indicated by the supplied copy of D5.2 and D5.2 Appendix B, is the current status."** **c. If examinee indicates that he/she would observe the indications for N32, N51, and N52, inform examinee that, "N32, N51, and N52 all read approximately 207 cpm and there are not alarms associated with those channels."** **c. If examinee reports that his/her determination is that minimum required instrumentation channel operability is satisfied provided N32 is selected for audible count rate in Containment, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Refer to the following Technical Specification requirements: T.S.3.5: Table T.S.3.5-2A.
Standard:	Tech Spec Table T.S.3.5-2A reviewed and determination made that it is not applicable due to being in Mode 6.
Evaluator Cue:	**If examinee reports that his/her determination is that Tech Spec Table T.S.3.5-2A is not applicable due to being in Mode 6, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** **X** **(S-2)**	If necessary, then switch audible count rate to operable Source Range.
Standard:	Audible count rate selected to N32 (selector switch located on the front of the N34 drawer on the NI panel).
Evaluator Note:	**Examinee may direct RO to perform this step or as the RO had requested that he/she implement this step per the initial conditions, he/she may perform the step directly.**
Evaluator Cue:	• **If examinee directs RO to switch audible count rate to N32, acknowledge direction, then inform examinee that, "audible count rate is selected to N32."** • **If examinee reports that he/she would switch audible count rate to N32 and indicates where it would be done from, inform examinee that, "audible count rate is selected to N32."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Subsequent Actions: 1. Initiate a work order to repair instrument. 2. Make necessary log entries.
Standard:	1. I&C contacted to initiate work order to repair N31. 2. Necessary log entries made including entry and exit for LCO 3.8.
Evaluator Cue:	**1. When examinee directs I&C to initiate a work order to repair N31, acknowledge direction, then inform examinee that, "a work order to repair N31 will be initiated."** **2. When examinee indicates that he/she would make necessary log entries and that entry and exit for LCO 3.8 would be one of them, inform examinee that, "the necessary log entries are made."** **3. If examinee has not at this point indicated that minimum operability requirements are satisfied for continued refueling operations, then as SM,:** • **Ask examinee, "what is required to resume fuel transfer?"** • **Acknowledge examinees response.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When audible count rate has been selected to N32 and examinee reports the determination of Tech Spec allowance for continued refueling operations, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.
- The RO has performed the actions of C47013 and verified the detector voltage is low and requests that you as the Unit 1 SS, implement C51 for N31 failure low.
- Core geometry changes have been suspended.

INITIATING CUES:

- As Unit 1 SS, implement C51 in response to N31 failed low during Refueling.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PERFORM RCS LEAK RATE DETERMINATION

JPM NUMBER: A-1B **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SS 344.ATI.023 / CRO 0020010201

K/A NUMBERS: 2.1.19 / 2.1.33

APPLICABLE METHOD OF TESTING:

Simulate Performance: [ ] Actual Performance: [x]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/21/00

APPROVED BY: [signature] **DATE:** 7/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- The Lead RO is at step 2.4.4 of C4 AOP1 and requests that you use ERCS "LEAK" Program to determine approximate leak rate.

INITIATING CUES:

- As the SS, perform a 2-minute RCS Leak Rate Test using ERCS "LEAK" Program TIMED TEST function.

JPM PERFORMANCE INFORMATION

Required Materials: Screen printout of completed Unit 1 2 minute ERCS RCS Leak Rate Test indicating 1 to 10 gpm leakage.

General References: 1C4 AOP1, C41.4, and T.S.3.1.C

Task Standards: 2 minute RCS Leak Rate Test performed using ERCS with the results evaluated such that it is determined that the leakage is in excess of 1 gpm requiring source location with 4 hours or HOT SHUTDOWN within the following 6 hours and that if source is located, then operation my continue since RCS leakage is not in excess of 10 gpm.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical __X__ (S-1)**	At any Unit 1 ERCS terminal, enter Turn On Code (TOC) "LEAK" and press <Enter>.
Standard:	At an ERCS terminal, TOC "LEAK" entered and then <Enter> depressed.
Evaluator Note:	• **According to C41.4, the TOC "SP1001AA" will do the same thing as "LEAK" except that you don't have to be at a Unit 1 ERCS terminal.** • **Following this action, a screen should appear like the screen printout provided with this JPM.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Enter Operator Supplied Data.
Standard:	Any Operator Supplied Data value greater than zero (0) entered for the specified parameter.
Evaluator Cue:	**If examinee requests from Auxiliary Building Operator Charging Pump Leakrates or Containment Sump Pump Run Time hours, acknowledge request, then inform examinee that, "they are all zero." If examinee requests to know if the Operator Supplied Data was updated per the daily RCS Leak Rate Test, inform examinee that, "the Operator Supplied Data was updated per the daily RCS Leak Rate Test and all values were zero."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Press function key <F6> for Timed Test.
Standard:	Function key <F6> depressed.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-3)**	Enter 2 and press <Enter>.
Standard:	2 entered and then <Enter> depressed.
Evaluator Note:	**The INITIAL column should update immediately with the FINAL column updating after the 2 minutes is completed.**
Evaluator Cue:	• **When the 2 minutes have elapsed and the FINAL column updates, slide the screen printout provided with this JPM in front of the ERCS screen and inform examinee that, "this is what you see."** • **Allow examinee a couple of minutes to determine the RCS Leak Rate Test results, then inform examinee that, "the Lead RO has just informed you that per to C4 AOP1, step 2.4.9, you are to comply with Technical Specification T.S.3.1.C.2."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-4)**	Comply with Technical Specification T.S.3.1.C.2.
Standard:	RCS Leak Rate Test results evaluated and determined to be in excess of 1 gpm, therefore requiring source location within 4 hours or the unit placed in HOT SHUTDOWN within the following 6 hours; if source located, then operation may continue since RCS leakage is not in excess of 10 gpm.
Evaluator Note:	**Examinee should refer to T.S.3.1.C.2 and determine that with RCS leakage in excess of 1 gpm, the source of the leakage must be identified within 4 hours, otherwise the unit must be placed in HOT SHUTDOWN within the following 6 hours. If the source of the leakage is identified, then operation may continue since RCS leakage is not in excess of 10 gpm.**
Evaluator Cue:	**If examinee only reports that the source of the leakage has to be identified within 4 hours, otherwise be in HOT SHUTDOWN within the following 6 hours, acknowledge report, then ask examinee, "what action is required if the source of the leakage is identified within 4 hours."** **When examinee reports determination of action necessary to comply with Tech Specs, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When the evaluation of the RCS Leak Rate Test is complete with determination of action made and reported, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- The Lead RO is at step 2.4.4 of C4 AOP1 and requests that you use ERCS "LEAK" Program to determine approximate leak rate.

INITIATING CUES:

- As the SS, perform a 2-minute RCS Leak Rate Test using ERCS "LEAK" Program TIMED TEST function.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: USE P&IDS TO ISOLATE SYSTEM LEAKAGE

JPM NUMBER: A-2 **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 002.ATI.017

K/A NUMBERS: 2.1.24

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 10 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/21/00

APPROVED BY: [signature] **DATE:** 7/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1C4 AOP1, X-HIAW-39 and NF-39245-2

Task Standards: Determination made that valves VC-7-3 and VC-7-4 need to be closed to isolate the Letdown side; and that CC-12-3 and CC-12-4 need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical __X__ (S-1)**	Determine the valves that need to be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.
Standard:	Using flow prints, determine that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side; and that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.
Evaluator Cue:	**When examinee reports that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side; and that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When determination of valves necessary to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger has been completed, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PREPARE FOR ENTRY INTO A LOCKED HIGH RADIATION AREA

JPM NUMBER: A-3 **REV.** 0

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 1190100301

K/A NUMBERS: 2.3.10

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [x]

Simulator: [ ] Control Room: [ ]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/19/00

APPROVED BY: [signature] **DATE:** 7/20/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Water leakage has been reported in the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: F2

Task Standards: Required preparations made for entry into and the location indicated for the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical** __X__ **(S-1)**	Obtain the Locked High Radiation Area key.
Standard:	Locked High Radiation Area key obtained.
Evaluator Note:	**This key is on the operator's key ring or in either the HP's or SS's office.**
Evaluator Cue:	**If asked, inform examinee that, "the obtaining of the key is to be simulated."** **When examinee demonstrates where and how they would obtain the key, inform examinee that, "the key has been obtained."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	At Access Control, determine the RWP for Locked High Radiation Areas.
Standard:	RWP 11 determined to be the RWP for Locked High Radiation Areas (Barrel Yard - Hot Drum Storage Area).
Evaluator Note:	**The examinee may ask RPS for applicable RWP.**
Evaluator Cue:	**If asked, inform examinee that, "RWP 11 is the applicable RWP."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Review the RWP for entry conditions and requirements.
Standard:	RWP conditions and requirements reviewed and the following determined: 1. Dose rates need to be known or survey meter has to be used to survey the area. 2. Continuous RPS coverage is required for entry. 3. A pre-job briefing is required to review dose rates and allowable dose. 4. Stay time has been converted to your individual dosimeter Dose Alarm. 5. TLD and dosimeter require for entry with Dose Rate Alarm set at 5000 mR/hr and Dose Alarm set at 100 mRem. 6. Normal Full Suit-up required unless authorized less by RPS.
Evaluator Note:	**Examinee may use survey map in book to determine if dose rates are currently known or may consult with RPS.**
Evaluator Cue:	**If asked, inform examinee that, "current dose rates are posted at the entrance to the area."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Request coverage and pre-job brief from RPS.
Standard:	RPS coverage assigned and pre-job brief completed.
Evaluator Note:	**Act as RPS to conduct pre-job brief and assign continuous RPS coverage.**
Evaluator Cue:	**When requested as RPS, conduct pre-job briefing going over attached RWP 11 requirements with the following specific notations:** **1. The survey map posted locally at the Barrel Yard - Hot Drum Storage Area, will be reviewed for current dose rates in the area.** **2. Dosimeter Dose Rate Alarm has been set to 5000 mR/hr and Dose Alarm has been set to 100 mRem.** **3. Protective clothing required for the job will be Bootie and Glove Suit-up.** **4. RPS is to be notified when you are ready to enter and a HP will be sent to the area for continuous coverage.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Obtain electronic dosimeter and log-in on the Access Control Computer System.
Standard:	Dosimeter obtained and Access Control Computer System logged-in on.
Evaluator Note:	**Examinee should log-in on the standard RWP for operator's tours.**
Evaluator Cue:	**If required, inform examinee that, "log-in should be on the standard RWP for operator's tours (RWP 1)."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-3)**	At the Barrel Yard - Hot Drum Storage Area entry gate, remove the lock and open the gate.
Standard:	Barrel Yard - Hot Drum Storage Area entry gate lock simulated removed and location of Locked High Radiation Area indicated.
Evaluator Note:	**The examinee need only indicate from the Barrel Yard - Hot Drum Storage Area entry gate, the location of the Locked High Radiation Area within. This may be performed by using the posted survey map as a reference and/or pointing to the are.**
Evaluator Cue:	**When examinee indicates that he/she would remove the lock on the Barrel Yard - Hot Drum Storage Area, inform the examinee that, " the lock need not be removed and indication of the Locked High Radiation Area location is all that is required."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When the location of the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area has been indicated, inform the examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Water leakage has been reported in the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PERFORM INTERIM EMERGENCY DIRECTOR ACTIONS

JPM NUMBER: A-4 **REV.** 0

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SM 352.ATI.014 / SS 3440230303

K/A NUMBERS: 2.4.38

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 15 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/19/00

APPROVED BY: [signature] **DATE:** 7/20/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- As the SM, assume interim ED responsibilities, classify the event, and complete the PINGP 1125, "ED Checklist".

JPM PERFORMANCE INFORMATION

Required Materials: PINGP 577 with section 2.2 filled in as follows:
a. Wind Speed = 2.5 mph
b. Wind Direction (from) = 210 °
c. Temperature = 75 °F
d. Precipitation = No
e. Stability Class = F circled
f. Affected Sectors = ALL

General References: F3-2, F3-3, PINGP 1125, and PINGP 577

Task Standards: Event classified as a Notification of Unusual Event, PINGP 1125 initialed, PINGP 577 completed and delivered to the SEC, and PA announcements.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical __X__ (S-1)**	Classify the event per F3-2.
Standard:	Event classified as a Notification of Unusual Event (NUE) under EAL Reference Manual Condition Number 16A.
Evaluator Note:	**It is expected that no more than 15 minutes will be required to classify the even, complete form PINGP 577, "Emergency Notification Report Form", and give the form to the SEC to complete notifications.**
Evaluator Cue:	**If examinee reports that he/she is declaring a NUE, inform examinee that, "it is understood that a NUE is being declared."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical __X__ (S-1)**	Fills in the time of event declaration at the top of PINGP 1125.
Standard:	Declaration time filled in.
Evaluator Note:	**Procedurally, once the classification of Notification of Unusual Event has been made, F3-2 implements F3-3, which implements form PINGP 1125, "Shift Manager/Shift Supervisor Emergency Director Checklist", which implements for PINGP 577, "Emergency Notification Report Form". Examinee will probably implement forms PINGP 577 and PINGP 1125 without procedural reference.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If a credible bomb threat exists, then broadcast the following message over the plant P/A system: Attention all plant personnel. Attention all plant personnel. A bomb may exist in the Auxiliary Feed Pump Room area. Stay clear of the Auxiliary Feed Pump Room. Repeat announcement.
Standard:	Announcement made and repeated. Initials and time entered on PINGP 1125.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	A Local Evacuation of a specific area of the plant may be necessary because of local hazards. A Local Evacuation may proceed as follows: a. Determine assembly points using table as general guidance. b. Sound the Evacuation Alarm. c. Announce the following over the plant page. Attention all plant personnel. There is a bomb threat occurring in the Turbine Building. All personnel should evacuate from the Turbine Building and go to the New Admin Lunchroom for accountability. Stay clear of the Turbine Building until further notified. Repeat the announcement. d. Direct security (4318) to conduct Personnel Accountability using F3-10 as guidance.
Standard:	a. Local Evacuation of Turbine Building determined to be necessary and the assembly point determined to be the New Admin Lunchroom. b. Evacuation alarm sounded (switch located on panel behind 'G' panel). c. Announcement made and repeated. (Wording describing hazard may vary, but should address the bomb threat.) d. Security directed to perform Personnel Accountability. e. Initials and time entered on PINGP 1125.
Evaluator Cue:	**a. If examinee reports that he/she is conducting a local evacuation of the Turbine Building to the New Admin Lunchroom, inform examinee that, "it is understood that a local evacuation of the Turbine Building is being conducted to the New Admin Lunchroom."** **b. When examinee reports that he/she would sound the evacuation alarm and indicates where it would be done from, inform examinee that, "the evacuation alarm has been sounded."** **c. When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."** **d. When examinee requests security to perform personnel accountability, acknowledge as security, then inform examinee that, "personnel accountability will be performed."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Ensure the SEC has been summoned to the Control Room and starts the completion of the notification report form (PINGP 577).
Standard:	Initials and time entered on PINGP 1125.
Evaluator Cue:	**If asked when the SEC was summoned, inform examinee that, "the SEC was summoned to the control room 5 minutes before event declaration."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** **X** **(S-2)**	Review and approve the notification report form PINGP 577.
Standard:	PINGP 577 completed and signed for approval as follows: • 1.1 (b) checked. • 1.2 (a) in first column and (a) in second column checked, time and date entered. • 1.3 (a) checked. • 1.4 (b) checked. • 2.1 indicates event related to Both Units, EAL is 16A. • 2.2 previously filled in by SEC, as given in JPM Initial Conditions. • 2.3 signed by examinee as interim ED.
Evaluator Note:	**The examinee should have been given a copy of PINGP 577 with the information filled in as indicated in the Required Materials section of this JPM.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-3)**	Direct the SEC to complete the notifications of state, local, and NSP personnel in accordance with F3-5 and PINGP 579.
Standard:	PINGP 577 given to the SEC with the direction to complete notifications of state and local agencies within 15 minutes of event declaration and to activate the NSP Emergency Response Organization in accordance with F3-5 and PINGP 579.
Evaluator Cue:	**When examinee indicates that he/she would give the PINGP 577 to the SEC with direction for notifications, accept the PINGP 577 and acknowledge direction, then inform examinee that, "notifications of state and local agencies will be made within 15 minutes of event declaration and the NSP Emergency Response Organization will be activated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-4)**	Announce NUE over PA system: Attention all plant personnel: A notification of Unusual Event has been declared based on (brief description of event). Repeat the announcement.
Standard:	Announcement made and repeated.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When NUE announcement has been made, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- As the SM, assume interim ED responsibilities, classify the event, and complete the PINGP 1125, "ED Checklist".

NRC

Comments

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: RESPOND TO FAILED NI DURING REFUELING

JPM NUMBER: A-1A **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SS 344.ATI.023 / CRO 015.ATI.002

K/A NUMBERS: 2.2.26 / 2.2.30

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 25 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY: _____ **DATE:** _____

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.
- The RO has performed the actions of C47013 and verified the detector voltage is low and requests that you as the Unit 1 SS, implement C51 for N31 failure low.
- Core geometry changes have been suspended and permission is being awaited to resume fuel transfer.

INITIATING CUES:

- As Unit 1 SS, implement C51 in response to N31 failed low during Refueling.
  ~~operator~~ lead respond to annunciator 47013-0401, SR Loss of DET. Volts

JPM PERFORMANCE INFORMATION

Required Materials: Copy of D5.2 completed, including Appendix B, except for Section 7.2.

General References: C47013-0401, 1C51.1, D5.2

Task Standards: Tech Specs assessed with determination made that minimum channel operability still exists to allow continued refueling operations and audible count rate selected to N32.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Change to conform with procedure 1C51.1, ↓ (verify det. volts

Performance Step: **Critical** _____	If power < 10^{-10} amps, then: a. Place reactor in Hot Shutdown or safer condition. b. Select NR 45 recorder to Intermediate Range for failed SR channel.
Standard:	NR 45 recorder selected to Intermediate Range for N31 (selector switch located on the front of the RO panel).
Evaluator Cue:	• **If examinee ~~directs RO to~~ selects N45 recorder to Intermediate Range for N31, ~~acknowledge direction, then~~ inform examinee that, ~~"N45 is selected to Intermediate Range for N31."~~** OK • **If examinee indicates that he/she would select N45 recorder to Intermediate Range for N31 and indicates where it would be done from, inform examinee that, "N45 recorder is selected to Intermediate Range."**
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If in refueling mode, then: a. Suspend all core geometry changes. b. Refer to Technical Specifications T.S.3.8. Break out as a critical task
Standard:	a. Core geometry changes suspended. b. T.S.3.8 reviewed and determination made that minimum required operable instrumentation exists to allow continued refueling operations.
Evaluator Note:	• **Examinee should, by review of D5.2 and/or observation of indications, determine that N32, N51, and N52 are all operable, and then either by review of D5.2 or Tech Spec requirements, determine that the minimum required instrument channels (2 source range required) are operable (N32, N51, and N52 are operable).** • **Examinee should also determine that once N32 is selected for audible count rate indication in Containment, refueling operations may continue.**
Evaluator Cue:	**a. If examinee indicates that he/she would suspend core geometry changes, inform examinee that, "per initial conditions, core geometry changes have been suspended."** **b. If examinee asks about the status of N32, N51, or N52, inform examinee that, "whatever status is indicated by the supplied copy of D5.2 and D5.2 Appendix B, is the current status."** **c. If examinee indicates that he/she would observe the indications for N32, N51, and N52, inform examinee that, "N32, N51, and N52 all read approximately 207 cpm and there are not alarms associated with those channels."** **c. If examinee reports that his/her determination is that minimum required instrumentation channel operability is satisfied provided N32 is selected for audible count rate in Containment, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Refer to the following Technical Specification requirements: T.S.3.5: Table T.S.3.5-2A.
Standard:	Tech Spec Table T.S.3.5-2A reviewed and determination made that it is not applicable due to being in Mode 6.
Evaluator Cue:	**If examinee reports that his/her determination is that Tech Spec Table T.S.3.5-2A is not applicable due to being in Mode 6, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** **X** **(S-2)**	If necessary, then switch audible count rate to operable Source Range.
Standard:	Audible count rate selected to N32 (selector switch located on the front of the N34 drawer on the NI panel).
Evaluator Note:	**Examinee may direct RO to perform this step or as the RO had requested that he/she implement this step per the initial conditions, he/she may perform the step directly.**
Evaluator Cue:	• **If examinee directs RO to switch audible count rate to N32, acknowledge direction, then inform examinee that, "audible count rate is selected to N32."** • **If examinee reports that he/she would switch audible count rate to N32 and indicates where it would be done from, inform examinee that, "audible count rate is selected to N32."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Subsequent Actions: 1. Initiate a work order to repair instrument. 2. Make necessary log entries.
Standard:	1. I&C contacted to initiate work order to repair N31. 2. Necessary log entries made including entry and exit for LCO 3.8.
Evaluator Cue:	**1. When examinee directs I&C to initiate a work order to repair N31, acknowledge direction, then inform examinee that, "a work order to repair N31 will be initiated."** **2. When examinee indicates that he/she would make necessary log entries and that entry and exit for LCO 3.8 would be one of them, inform examinee that, "the necessary log entries are made."** **3. If examinee has not at this point indicated that minimum operability requirements are satisfied for continued refueling operations, then as SM,:** • **Ask examinee, "what is required to resume fuel transfer?"** • **Acknowledge examinees response.**
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: **When audible count rate has been selected to N32 and examinee reports the determination of Tech Spec allowance for continued refueling operations, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.
- The RO has performed the actions of C47013 and verified the detector voltage is low and requests that you as the Unit 1 SS, implement C51 for N31 failure low.
- Core geometry changes have been suspended.

INITIATING CUES:

- As Unit 1 SS, implement C51 in response to N31 failed low during Refueling.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PERFORM RCS LEAK RATE DETERMINATION

JPM NUMBER: A-1B **REV.** 1

Replace this JPM w/ S/G leak rate calc.

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SS 344.ATI.023 / CRO 0020010201

K/A NUMBERS: 2.1.19 / 2.1.33

APPLICABLE METHOD OF TESTING:

Simulate Performance: [ ] Actual Performance: [x]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/21/00

APPROVED BY: _____ **DATE:** _____

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- The Lead RO is at step 2.4.4 of C4 AOP1 and requests that you use ERCS "LEAK" Program to determine approximate leak rate.

INITIATING CUES:

- As the SS, perform a 2-minute RCS Leak Rate Test using ERCS "LEAK" Program TIMED TEST function.

JPM PERFORMANCE INFORMATION

Required Materials: Screen printout of completed Unit 1 2 minute ERCS RCS Leak Rate Test indicating 1 to 10 gpm leakage.

General References: 1C4 AOP1, C41.4, and T.S.3.1.C

Task Standards: 2 minute RCS Leak Rate Test performed using ERCS with the results evaluated such that it is determined that the leakage is in excess of 1 gpm requiring source location with 4 hours or HOT SHUTDOWN within the following 6 hours and that if source is located, then operation my continue since RCS leakage is not in excess of 10 gpm.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical** __X__ **(S-1)**	At any Unit 1 ERCS terminal, enter Turn On Code (TOC) "LEAK" and press <Enter>.
Standard:	At an ERCS terminal, TOC "LEAK" entered and then <Enter> depressed.
Evaluator Note:	• **According to C41.4, the TOC "SP1001AA" will do the same thing as "LEAK" except that you don't have to be at a Unit 1 ERCS terminal.** • **Following this action, a screen should appear like the screen printout provided with this JPM.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Enter Operator Supplied Data.
Standard:	Any Operator Supplied Data value greater than zero (0) entered for the specified parameter.
Evaluator Cue:	**If examinee requests from Auxiliary Building Operator Charging Pump Leakrates or Containment Sump Pump Run Time hours, acknowledge request, then inform examinee that, "they are all zero." If examinee requests to know if the Operator Supplied Data was updated per the daily RCS Leak Rate Test, inform examinee that, "the Operator Supplied Data was updated per the daily RCS Leak Rate Test and all values were zero."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Press function key <F6> for Timed Test.
Standard:	Function key <F6> depressed.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-3)**	Enter 2 and press <Enter>.
Standard:	2 entered and then <Enter> depressed.
Evaluator Note:	**The INITIAL column should update immediately with the FINAL column updating after the 2 minutes is completed.**
Evaluator Cue:	• **When the 2 minutes have elapsed and the FINAL column updates, slide the screen printout provided with this JPM in front of the ERCS screen and inform examinee that, "this is what you see."** • **Allow examinee a couple of minutes to determine the RCS Leak Rate Test results, then inform examinee that, "the Lead RO has just informed you that per to C4 AOP1, step 2.4.9, you are to comply with Technical Specification T.S.3.1.C.2."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-4)**	Comply with Technical Specification T.S.3.1.C.2.
Standard:	RCS Leak Rate Test results evaluated and determined to be in excess of 1 gpm, therefore requiring source location within 4 hours or the unit placed in HOT SHUTDOWN within the following 6 hours; if source located, then operation may continue since RCS leakage is not in excess of 10 gpm.
Evaluator Note:	**Examinee should refer to T.S.3.1.C.2 and determine that with RCS leakage in excess of 1 gpm, the source of the leakage must be identified within 4 hours, otherwise the unit must be placed in HOT SHUTDOWN within the following 6 hours. If the source of the leakage is identified, then operation may continue since RCS leakage is not in excess of 10 gpm.**
Evaluator Cue:	**If examinee only reports that the source of the leakage has to be identified within 4 hours, otherwise be in HOT SHUTDOWN within the following 6 hours, acknowledge report, then ask examinee, "what action is required if the source of the leakage is identified within 4 hours."** **When examinee reports determination of action necessary to comply with Tech Specs, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When the evaluation of the RCS Leak Rate Test is complete with determination of action made and reported, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- The Lead RO is at step 2.4.4 of C4 AOP1 and requests that you use ERCS "LEAK" Program to determine approximate leak rate.

INITIATING CUES:

- As the SS, perform a 2-minute RCS Leak Rate Test using ERCS "LEAK" Program TIMED TEST function.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: USE P&IDS TO ISOLATE SYSTEM LEAKAGE

JPM NUMBER: A-2 **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 002.ATI.017

K/A NUMBERS: 2.1.24

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 10 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/21/00

APPROVED BY: _____ **DATE:** _____

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1C4 AOP1, X-HIAW-39 and NF-39245-2

Task Standards: Determination made that valves VC-7-3 and VC-7-4 need to be closed to isolate the Letdown side; and that CC-12-3 and CC-12-4 need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical X (S-1)**	Determine the valves that need to be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.
Standard:	Using flow prints, determine that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side; and that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.
Evaluator Cue:	**When examinee reports that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side; and that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When determination of valves necessary to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger has been completed, inform examinee that, "this JPM is complete."**

Stop Time: _____

Break this step out into individual steps w/criticals for locating the valves. Add step for initiating hold cards.

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PREPARE FOR ENTRY INTO A LOCKED HIGH RADIATION AREA

JPM NUMBER: A-3 **REV.** 0

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 1190100301

K/A NUMBERS: 2.3.10

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [x]

Simulator: [ ] Control Room: [ ]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/19/00

APPROVED BY: _____ **DATE:** _____

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Water leakage has been reported in the ~~Locked High Radiation Area within the~~ Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: F2

Task Standards: Required preparations made for entry into and the location indicated for the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical __X__ (S-1)	Obtain the Locked High Radiation Area key.
Standard:	Locked High Radiation Area key obtained.
Evaluator Note:	**This key is on the operator's key ring or in either the HP's or SS's office.**
Evaluator Cue:	**If asked, inform examinee that, "the obtaining of the key is to be simulated."** **When examinee demonstrates where and how they would obtain the key, inform examinee that, "the key has been obtained."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	At Access Control, determine the RWP for Locked High Radiation Areas.
Standard:	RWP 11 determined to be the RWP for Locked High Radiation Areas (Barrel Yard - Hot Drum Storage Area).
Evaluator Note:	**The examinee may ask RPS for applicable RWP.**
Evaluator Cue:	**If asked, inform examinee that, "RWP 11 is the applicable RWP."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Review the RWP for entry conditions and requirements.
Standard:	RWP conditions and requirements reviewed and the following determined: 1. Dose rates need to be known or survey meter has to be used to survey the area. 2. Continuous RPS coverage is required for entry. 3. A pre-job briefing is required to review dose rates and allowable dose. 4. Stay time has been converted to your individual dosimeter Dose Alarm. 5. TLD and dosimeter require for entry with Dose Rate Alarm set at 5000 mR/hr and Dose Alarm set at 100 mRem. 6. Normal Full Suit-up required unless authorized less by RPS.
Evaluator Note:	**Examinee may use survey map in book to determine if dose rates are currently known or may consult with RPS.**
Evaluator Cue:	**If asked, inform examinee that, "current dose rates are posted at the entrance to the area."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Request coverage and pre-job brief from RPS.
Standard:	RPS coverage assigned and pre-job brief completed.
Evaluator Note:	**Act as RPS to conduct pre-job brief and assign continuous RPS coverage.**
Evaluator Cue:	**When requested as RPS, conduct pre-job briefing going over attached RWP 11 requirements with the following specific notations:** **1. The survey map posted locally at the Barrel Yard - Hot Drum Storage Area, will be reviewed for current dose rates in the area.** **2. Dosimeter Dose Rate Alarm has been set to 5000 mR/hr and Dose Alarm has been set to 100 mRem.** **3. Protective clothing required for the job will be Bootie and Glove Suit-up.** **4. RPS is to be notified when you are ready to enter and a HP will be sent to the area for continuous coverage.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Obtain electronic dosimeter and log-in on the Access Control Computer System.
Standard:	Dosimeter obtained and Access Control Computer System logged-in on.
Evaluator Note:	**Examinee should log-in on the standard RWP for operator's tours.**
Evaluator Cue:	**If required, inform examinee that, "log-in should be on the standard RWP for operator's tours (RWP 1)."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical __X__ (S-3)**	At the Barrel Yard - Hot Drum Storage Area entry gate, remove the lock and open the gate.
Standard:	Barrel Yard - Hot Drum Storage Area entry gate lock simulated removed and location of Locked High Radiation Area indicated.
Evaluator Note:	**The examinee need only indicate from the Barrel Yard - Hot Drum Storage Area entry gate, the location of the Locked High Radiation Area within. This may be performed by using the posted survey map as a reference and/or pointing to the are.**
Evaluator Cue:	**When examinee indicates that he/she would remove the lock on the Barrel Yard - Hot Drum Storage Area, inform the examinee that, " the lock need not be removed and indication of the Locked High Radiation Area location is all that is required."**
Performance:	**SATISFACTORY _____ UNSATISFACTORY _____**
Comments:	_____

Terminating Cues: **When the location of the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area has been indicated, inform the examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Water leakage has been reported in the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PERFORM INTERIM EMERGENCY DIRECTOR ACTIONS

JPM NUMBER: A-4 **REV.** 0

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SM 352.ATI.014 / SS 3440230303

K/A NUMBERS: 2.4.38

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 15 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 7/19/00

APPROVED BY: _____ **DATE:** _____

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- As the SM, assume interim ED responsibilities, classify the event, and complete the PINGP 1125, "ED Checklist".

Execute the SM responsibilities under these conditions.

Change cue to eliminate telling applicant to classify & execute PINGP 1125.

JPM PERFORMANCE INFORMATION

Required Materials: PINGP 577 with section 2.2 filled in as follows:
a. Wind Speed = 2.5 mph
b. Wind Direction (from) = 210 °
c. Temperature = 75 °F
d. Precipitation = No
e. Stability Class = F circled
f. Affected Sectors = ALL

General References: F3-2, F3-3, PINGP 1125, and PINGP 577

Task Standards: Event classified as a Notification of Unusual Event, PINGP 1125 initialed, PINGP 577 completed and delivered to the SEC, and PA announcements.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical X (S-1)**	Classify the event per F3-2.
Standard:	Event classified as a Notification of Unusual Event (NUE) under EAL Reference Manual Condition Number 16A.
Evaluator Note:	**It is expected that no more than 15 minutes will be required to classify the even, complete form PINGP 577, "Emergency Notification Report Form", and give the form to the SEC to complete notifications.**
Evaluator Cue:	**If examinee reports that he/she is declaring a NUE, inform examinee that, "it is understood that a NUE is being declared."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	Fills in the time of event declaration at the top of PINGP 1125.
Standard:	Declaration time filled in.
Evaluator Note:	**Procedurally, once the classification of Notification of Unusual Event has been made, F3-2 implements F3-3, which implements form PINGP 1125, "Shift Manager/Shift Supervisor Emergency Director Checklist", which implements for PINGP 577, "Emergency Notification Report Form". Examinee will probably implement forms PINGP 577 and PINGP 1125 without procedural reference.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If a credible bomb threat exists, then broadcast the following message over the plant P/A system: Attention all plant personnel. Attention all plant personnel. A bomb may exist in the Auxiliary Feed Pump Room area. Stay clear of the Auxiliary Feed Pump Room. Repeat announcement.
Standard:	Announcement made and repeated. Initials and time entered on PINGP 1125.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	A Local Evacuation of a specific area of the plant may be necessary because of local hazards. A Local Evacuation may proceed as follows: a. Determine assembly points using table as general guidance. b. Sound the Evacuation Alarm. c. Announce the following over the plant page. Attention all plant personnel. There is a bomb threat occurring in the Turbine Building. All personnel should evacuate from the Turbine Building and go to the New Admin Lunchroom for accountability. Stay clear of the Turbine Building until further notified. Repeat the announcement. d. Direct security (4318) to conduct Personnel Accountability using F3-10 as guidance.
Standard:	a. Local Evacuation of Turbine Building determined to be necessary and the assembly point determined to be the New Admin Lunchroom. b. Evacuation alarm sounded (switch located on panel behind 'G' panel). c. Announcement made and repeated. (Wording describing hazard may vary, but should address the bomb threat.) d. Security directed to perform Personnel Accountability. e. Initials and time entered on PINGP 1125.
Evaluator Cue:	**a. If examinee reports that he/she is conducting a local evacuation of the Turbine Building to the New Admin Lunchroom, inform examinee that, "it is understood that a local evacuation of the Turbine Building is being conducted to the New Admin Lunchroom."** **b. When examinee reports that he/she would sound the evacuation alarm and indicates where it would be done from, inform examinee that, "the evacuation alarm has been sounded."** **c. When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."** **d. When examinee requests security to perform personnel accountability, acknowledge as security, then inform examinee that, "personnel accountability will be performed."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Ensure the SEC has been summoned to the Control Room and starts the completion of the notification report form (PINGP 577).
Standard:	Initials and time entered on PINGP 1125.
Evaluator Cue:	**If asked when the SEC was summoned, inform examinee that, "the SEC was summoned to the control room 5 minutes before event declaration."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Review and approve the notification report form PINGP 577.
Standard:	PINGP 577 completed and signed for approval as follows: • 1.1 (b) checked. • 1.2 (a) in first column and (a) in second column checked, time and date entered. • 1.3 (a) checked. • 1.4 (b) checked. • 2.1 indicates event related to Both Units, EAL is 16A. • 2.2 previously filled in by SEC, as given in JPM Initial Conditions. • 2.3 signed by examinee as interim ED.
Evaluator Note:	**The examinee should have been given a copy of PINGP 577 with the information filled in as indicated in the Required Materials section of this JPM.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical __X__ (S-3)**	Direct the SEC to complete the notifications of state, local, and NSP personnel in accordance with F3-5 and PINGP 579.
Standard:	PINGP 577 given to the SEC with the direction to complete notifications of state and local agencies within 15 minutes of event declaration and to activate the NSP Emergency Response Organization in accordance with F3-5 and PINGP 579.
Evaluator Cue:	**When examinee indicates that he/she would give the PINGP 577 to the SEC with direction for notifications, accept the PINGP 577 and acknowledge direction, then inform examinee that, "notifications of state and local agencies will be made within 15 minutes of event declaration and the NSP Emergency Response Organization will be activated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical __X__ (S-4)**	Announce NUE over PA system: Attention all plant personnel: A notification of Unusual Event has been declared based on (brief description of event). Repeat the announcement.
Standard:	Announcement made and repeated.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When NUE announcement has been made, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- As the SM, assume interim ED responsibilities, classify the event, and complete the PINGP 1125, "ED Checklist".

Administered Operating Test

Contains the following:

ES-301-1 Administrative Topics Outline (Revised to incorporate replacement of A.1.b)
Five (5) administrative job performance measures (as-run)

Facility: Prairie Island Nuclear Generating Plant Date of Examination: 22 Aug 2000
Examination Level (circle one): RO / SRO Operating Test Number: 2000302

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Fuel Handling *K/A 2.2.26* *(2.5/3.7)* *K/A 2.2.30* *(3.5/3.3)*	JPM A-1A Respond To Failed NI During Refueling (New JPM.)
		This JPM requires the candidate to respond to a source range instrument failure during Refueling. Response includes Tech Spec operability determination and alignment to other channel.
	Plant Parameter Verification *K/A 2.1.7* *(3.7/4.4)* *K/A 2.4.48* *(3.5/3.8)*	JPM A-1B: Determine SG Leakage Correlation To R-15 Counts (New JPM.)
		This JPM requires the candidate to determine SG tube leak rate based on correlation to R-15 countrate and then determine appropriate procedure section based on leak rate.
A.2	Familiarity With And Use Of Piping And Instrument Drawings *K/A 2.1.24* *(2.8/3.1)*	JPM A-2: Use P&IDs To Isolate System Leakage (New JPM.)
		This JPM determines the valves necessary to isolate the source of the leakage, which will have been determined to be the Letdown Heat Exchanger into the CC System.
A.3	Radiation Exposure Limits And Contamination Control *K/A 2.3.10* *(2.9/3.3)*	JPM A-3 Prepare For Entry Into A Locked High Radiation Area (Bank JPM from 1999 RO NRC exam.)
		This JPM requires the candidate to obtain the keys, review the RWP, and make the necessary preparations for entering a locked high radiation area.
A.4	Emergency Action Levels And Classifications *K/A 2.4.38* *(2.2/4.0)*	JPM A-4: Perform Interim Emergency Director Actions (Modified JPM from last facility SRO NRC exam with different emergency, classification, and actions required.)
		The plan for this JPM is to have a bomb threat that will at least get the candidate into an NUE and require a local area plant evacuation.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: RESPOND TO FAILED NI DURING REFUELING

JPM NUMBER: A-1A **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SS 344.ATI.023 / CRO 015.ATI.002

K/A NUMBERS: 2.2.26 / 2.2.30

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

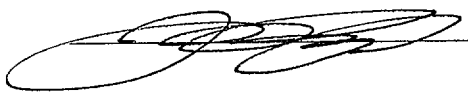
Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 25 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY:  **DATE:** 8/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.

INITIATING CUES:

- As Unit 1 Lead RO, respond to annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of D5.2 completed, including Appendix B, except for Section 7.2.

General References: C47013-0401, 1C51.1, D5.2

Task Standards: Core geometry changes suspended and Tech Specs assessed with determination made that minimum channel operability still exists to allow resumption of refueling operations and audible count rate selected to N32.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Verify detector voltage low. **Critical** _____	
Standard:	Detector voltage verified low by observing N31 detector voltage indicator reads low and Loss of Detector Volts light is illuminated (both located on the front of the N31 drawer on the NI panel).
Evaluator Note:	**This step is prescribed by the Alarm Response Procedure for annunciator 47013-0401.**
Evaluator Cue:	**If examinee indicates that he/she would verify check the N31 detector voltage indicator, inform examinee that, "N31 detector volts indicates 0 volts."** **If examinee indicates that he/she would check the N31 Loss of Detector Volts light, inform examinee that, "N31 Loss of Detector Volts light is illuminated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	If power < 10^{-10} amps, then: a. Place reactor in Hot Shutdown or safer condition. b. Select NR 45 recorder to Intermediate Range for failed SR channel.
Standard:	NR 45 recorder red pen selected to Intermediate Range by repositioning CS-46250 to I1.
Evaluator Note:	**This step and the remaining steps of this JPM are prescribed by C51, Instrument Failure Guide for N31.**
Evaluator Cue:	• **If examinee asks what positions CS-46250, NUCLEAR RECORDER INPUT SELECTOR RED PEN 1 and CS-46251, NUCLEAR RECORDER INPUT SELECTOR BLUE PEN 2 are selected to, inform examinee that, "CS-46250 is in S1 and CS-46251 is in S2."** • **When examinee indicates that he/she would select I1 on CS-46250, inform examinee that, "CS-46250 is in the S1 position."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** X **(S-1)**	If in refueling mode, then: • Suspend all core geometry changes.
Standard:	RO refueling communicator in the Control Room directed to have the SRO in charge of refueling suspend core geometry changes.
Evaluator Cue:	**When examinee indicates that he/she would inform RO refueling communicator to suspend core geometry changes, as the RO refueling communicator, acknowledge direction and inform examinee that, "the SRO in charge of refueling has suspended core geometry changes."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If in refueling mode, then: • Refer to Technical Specifications T.S.3.8.
Standard:	T.S.3.8 reviewed and determination made that minimum required operable instrumentation exists to allow continued refueling operations.
Evaluator Note:	• **Examinee should, by review of D5.2 and/or observation of indications, determine that N32, N51, and N52 are all operable, and then either by review of D5.2 or Tech Spec requirements, determine that the minimum required instrument channels (2 source range required) are operable (N32, N51, and N52 are operable).** • **Examinee should also determine that once N32 is selected for audible count rate indication in Containment, refueling operations may continue.**
Evaluator Cue:	• **If examinee indicates that he/she would inform the SS that T.S.3.8 needs referred to, inform examinee that, "for the purposes of this step, you are the SS."** • **If examinee asks about the status of N32, N51, or N52, inform examinee that, "whatever status is indicated by the supplied copy of D5.2 and D5.2 Appendix B, is the current status."** • **If examinee indicates that he/she would observe the indications for N32, N51, and N52, inform examinee that, "N32, N51, and N52 all read approximately 207 cpm and there are not alarms associated with those channels."** • **If examinee reports that his/her determination is that minimum required instrumentation channel operability is satisfied provided N32 is selected for audible count rate in Containment, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Refer to the following Technical Specification requirements: T.S.3.5: Table T.S.3.5-2A.
Standard:	Tech Spec Table T.S.3.5-2A reviewed and determination made that it is not applicable due to being in Mode 6.
Evaluator Cue:	• **If examinee indicates that he/she would inform the SS that T.S.3.8 needs referred to, inform examinee that, "for the purposes of this step, you are the SS."** • **If examinee reports that his/her determination is that Tech Spec Table T.S.3.5-2A is not applicable due to being in Mode 6, acknowledge report.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** **X** **(S-2)**	If necessary, then switch audible count rate to operable Source Range.
Standard:	Audible count rate selected to N32 (selector switch located on the front of the N34 drawer on the NI panel).
Evaluator Cue:	**When examinee reports that he/she would switch audible count rate to N32 and indicates where it would be done from, inform examinee that, "audible count rate is selected to N32."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Subsequent Actions: 1. Initiate a work order to repair instrument. 2. Make necessary log entries.
Standard:	1. I&C contacted to initiate work order to repair N31. 2. Necessary log entries made including entry and exit for LCO 3.8.
Evaluator Cue:	**1. When examinee directs I&C to initiate a work order to repair N31, acknowledge direction, then inform examinee that, "a work order to repair N31 will be initiated."** **2. When examinee indicates that he/she would make necessary log entries and that entry and exit for LCO 3.8 would be one of them, inform examinee that, "the necessary log entries are made."** **3. If examinee has not at this point indicated that minimum operability requirements are satisfied for continued refueling operations, then as SM,:** **• Ask examinee, "what is required to resume fuel transfer?"** **• Acknowledge examinees response.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When subsequent actions have been completed and examinee reports the determination of Tech Spec allowance for continued refueling operations, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Refueling.
- N31 is selected for input to the audible count rate indication in the Containment.
- With fuel transfer in progress in the Containment, annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT, is received.

INITIATING CUES:

- As Unit 1 Lead RO, respond to annunciator 47013-0401, SOURCE RANGE LOSS OF DETECTOR VOLT.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS

JPM NUMBER: A-1B **REV.** 2

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 002.ATI.011

K/A NUMBERS: 2.1.7 / 2.4.48

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

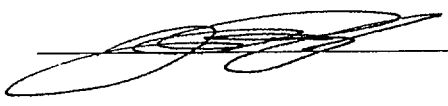
Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 15 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY:  **DATE:** 8/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP2 has been implemented in response to indications of SG Tube Leakage.
- ERCS is unavailable.
- The Duty Chemist has just reported that the results of the sample taken 1 hour ago indicate 11 SG tube leakage is 20 GPD.

INITIATING CUES:

- The SS directs you to perform C4 AOP2, Steps 2.4.9 through 2.4.12.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of C4 AOP2 signed off through Step 2.4.8 and C4 AOP2, Table 1 with initial data as of 1 hour ago filled in for Column A indicating 620 CPM and Column H indicating 3.1 CFM.

General References: C4 AOP2

Task Standards: Chemistry results recorded in C4 AOP2, Table 1, Section A calculations for conversion factor completed, and determination made based on current 1R-15 reading, that transition to Section 2.7, Action Level 2 (Shutdown) is required.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical X (S-1)**	Record 20 GPD in Column B.
Standard:	20 GPD recorded in Column B.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	Determine conversion factor, record in Column C, and enter into ERCS.
Standard:	Conversion factor determined to be 31 and recorded in Column C.
Evaluator Note:	• **Conversion factor is determined by dividing Column A (620 CPM) by Column B (20 GPD).** • **ERCS is unavailable and therefore the conversion factor can not be entered at this time.**
Evaluator Cue:	**If examinee states that he/she would need to write a procedure deviation for Step 2.4.10 (updating conversion factor in ERCS), inform examinee that, "the SS will write the procedure deviation."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Estimate 1R-15 countrate for 30 and 150 GPD leak rates and record in Columns D and E.
Standard:	1R-15 countrate for 30 and 150 GPD leak rates estimated to be 930 CPM and 4,650 CPM respectively and recorded in Columns D and E.
Evaluator Note:	**Estimated countrate is determined by multiplying Column C (31 CPM/GPD) by 30 and 150 respectively.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Perform manual calculation per Section B of Table 1 to monitor rate of change and GPD leak rate.
Standard:	Section B of Table 1 completed as follows: • Current date and time entered in the Date/Time Column, current 1R-15 counts recorded in Column A, and current air ejector flow recorded in Column H. • Current leak rate determined to be 193.5 GPD by dividing 1R-15 counts by the most recent conversion factor (Column C) and recorded in Column F. • Rate of change determined to be 173.5 GPD/HR by dividing the change in leak rate (change in Column F) by change in time (change in Date/Time Column in hours) for the two most recent entries and recorded in Column G.
Evaluator Note:	**• 1R-15 indication is located in the back of the control room.** **• Air ejector flow is indicted on Panel E indicator 41230, "CDRS AIR LEAKAGE FLOW".** **• Examinee may note that R-15 reading is greater than 4,650 CPM, which was determined to be the 150 GPD Action Level in the previous step. Examinee should still perform calculation of leak rate as required by this step.**
Evaluator Cue:	**• Inform examinee that, "current date and time is 1 hour from the time indicated on the initial entry (1 hour total has elapsed)."** **• If examinee requests Chemist to perform another leak rate determination based on sample, as Chemist, inform examinee that, "sample results will take 1 hour to complete."** **• When examinee checks 1R-15 reading, inform examinee that, "1R-15 is indicating 6 E3 (6,000) CPM."** **• When examinee checks condenser air leakage flow reading, inform examinee that, "condenser air leakage flow is indicting 3.1 CFM."**
Performance:	**SATISFACTORY _____ UNSATISFACTORY _____**
Comments:	_____

Performance Step: **Critical X (S-3)**	Determine the appropriate procedure section.
Standard:	Determines the appropriate procedure section to go to is Section 2.7, Action Level 2 (Shutdown) based on leakage greater than 150 GPD.
Evaluator Note:	**Examinee may also note that if leakage rate of change is sustained for at least 15 minutes at a rate of greater than 60 GPD/HR, that this would also require transition to Section 2.7, Action Level 2 (Shutdown).**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When examinee indicates that the appropriate procedure section to go to is Section 2.7, Action Level 2 (Shutdown), inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP2 has been implemented in response to indications of SG Tube Leakage.
- ERCS is unavailable.
- The Duty Chemist has just reported that the results of the sample taken 1 hour ago indicate 11 SG tube leakage is 20 GPD.

INITIATING CUES:

- The SS directs you to perform C4 AOP2, Steps 2.4.9 through 2.4.12.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: USE P&IDS TO ISOLATE SYSTEM LEAKAGE

JPM NUMBER: A-2 **REV.** 2

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 002.ATI.017

K/A NUMBERS: 2.1.24

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

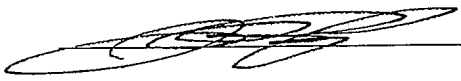
Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 10 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY:  **DATE:** 8/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1C4 AOP1, X-HIAW-1-39 and NF-39245-2

Task Standards: Determination made that valves VC-7-3 and VC-7-4 need to be closed to isolate the Letdown side; and that CC-12-3 and CC-12-4 need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical** _____	Determine the flow diagram necessary to determine isolation valves for the Letdown side of the Letdown Heat Exchanger.
Standard:	X-HIAW-1-39 determined to be the flow diagram necessary to determine the isolation valves for the Letdown side of the Letdown Heat Exchanger.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	Determine the valves that need to be closed to isolate Letdown side of the Letdown Heat Exchanger.
Standard:	Using flow print X-HIAW-1-39, determine that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side of the Letdown Heat Exchanger.
Evaluator Cue:	**When examinee reports that VC-7-3, LETDOWN HEAT EXCHANGER INLET and VC-7-4, LETDOWN HEAT EXCHANGER OUTLET need to be closed to isolate the Letdown side of the Letdown Heat Exchanger, acknowledge report and inform examinee that, "the Aux Building Operator will be directed to close the valves."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Determine the flow diagram necessary to determine isolation valves for the Component Cooling side of the Letdown Heat Exchanger.
Standard:	NF-39245-2 determined to be the flow diagram necessary to determine the isolation valves for the Component Cooling side of the Letdown Heat Exchanger.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	Determine the valves that need to be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.
Standard:	Using flow prints NF-39245-2, determine that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger.
Evaluator Cue:	**When examinee reports that CC-12-3, 11 LETDOWN HEAT EXCHANGER OUTLET ISOLATION and CC-12-4, 11 LETDOWN HEAT EXCHANGER INLET ISOLATION need to be closed to isolate the Component Cooling side of the Letdown Heat Exchanger, acknowledge report and inform examinee that, "the Aux Building Operator will be directed to close the valves."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	Initiate an SS Hold Card for the 4 valves closed to isolate the Letdown Heat Exchanger.
Standard:	SS Hold Card initiated for VC-7-3, VC-7-4, CC-12-3, and CC-12-4.
Evaluator Cue:	**When examinee indicates that he/she would initiate an SS Hold Card for VC-7-3, VC-7-4, CC-12-3, and CC-12-4, inform examinee that, "an SS Hold Card has been initiated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When determination of valves necessary to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger has been completed and an SS Hold Card initiated for the valves, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- C4 AOP1 has been implemented in response to indications of a slow RCS leak.
- It has been determined that the source of the leak is through the Letdown Heat Exchanger into the Component Cooling System.
- Letdown has been isolated by closing the following valves:
  - CV-31226, LETDOWN LINE ISOLATION
  - CV-31255, LETDOWN LINE ISOLATION
  - CV-31326, 40 GPM ISOLATION
- The SS is concerned that Component Cooling may leak into the VCT, which could result in a dilution of the RCS.

INITIATING CUES:

- The SS directs you to determine what valves must be closed to isolate both the Letdown and Component Cooling sides of the Letdown Heat Exchanger.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PREPARE FOR ENTRY INTO A LOCKED HIGH RADIATION AREA

JPM NUMBER: A-3 **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: CRO 1190100301

K/A NUMBERS: 2.3.10

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [x]

Simulator: [ ] Control Room: [ ]

Other: [ ]

Time for Completion: 20 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [x] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY: [signature] **DATE:** 8/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Water leakage has been reported in the Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: F2

Task Standards: Required preparations made for entry into and the location indicated for the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical** X **(S-1)**	Obtain the Locked High Radiation Area key.
Standard:	Locked High Radiation Area key obtained.
Evaluator Note:	**This key is on the operator's key ring or in either the HP's or SS's office.**
Evaluator Cue:	**If asked, inform examinee that, "the obtaining of the key is to be simulated."** **When examinee demonstrates where and how they would obtain the key, inform examinee that, "the key has been obtained."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** _____	At Access Control, determine the RWP for Locked High Radiation Areas.
Standard:	RWP 11 determined to be the RWP for Locked High Radiation Areas (Barrel Yard - Hot Drum Storage Area).
Evaluator Note:	**The examinee may ask RPS for applicable RWP.**
Evaluator Cue:	**If asked, inform examinee that, "RWP 11 is the applicable RWP."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical** __X__ **(S-2)**	Review the RWP for entry conditions and requirements.
Standard:	RWP conditions and requirements reviewed and the following determined: 1. Dose rates need to be known or survey meter has to be used to survey the area. 2. Continuous RPS coverage is required for entry. 3. A pre-job briefing is required to review dose rates and allowable dose. 4. Stay time has been converted to your individual dosimeter Dose Alarm. 5. TLD and dosimeter require for entry with Dose Rate Alarm set at 5000 mR/hr and Dose Alarm set at 100 mRem. 6. Normal Full Suit-up required unless authorized less by RPS.
Evaluator Note:	**Examinee may use survey map in book to determine if dose rates are currently known or may consult with RPS.**
Evaluator Cue:	**If asked, inform examinee that, "current dose rates are posted at the entrance to the area."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Request coverage and pre-job brief from RPS.
Standard:	RPS coverage assigned and pre-job brief completed.
Evaluator Note:	**Act as RPS to conduct pre-job brief and assign continuous RPS coverage.**
Evaluator Cue:	**When requested as RPS, conduct pre-job briefing going over attached RWP 11 requirements with the following specific notations:** **1. The survey map posted locally at the Barrel Yard - Hot Drum Storage Area, will be reviewed for current dose rates in the area.** **2. Dosimeter Dose Rate Alarm has been set to 5000 mR/hr and Dose Alarm has been set to 100 mRem.** **3. Protective clothing required for the job will be Bootie and Glove Suit-up.** **4. RPS is to be notified when you are ready to enter and a HP will be sent to the area for continuous coverage.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-2)**	Obtain electronic dosimeter and log-in on the Access Control Computer System.
Standard:	Dosimeter obtained and Access Control Computer System logged-in on.
Evaluator Note:	**Examinee should log-in on the standard RWP for operator's tours.**
Evaluator Cue:	**If required, inform examinee that, "log-in should be on the standard RWP for operator's tours (RWP 1)."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-3)**	At the Barrel Yard - Hot Drum Storage Area entry gate, remove the lock and open the gate.
Standard:	Barrel Yard - Hot Drum Storage Area entry gate lock simulated removed and location of Locked High Radiation Area indicated.
Evaluator Note:	**The examinee need only indicate from the Barrel Yard - Hot Drum Storage Area entry gate, the location of the Locked High Radiation Area within. This may be performed by using the posted survey map as a reference and/or pointing to the are.**
Evaluator Cue:	**When examinee indicates that he/she would remove the lock on the Barrel Yard - Hot Drum Storage Area, inform the examinee that, " the lock need not be removed and indication of the Locked High Radiation Area location is all that is required."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When the location of the Locked High Radiation Area within the Barrel Yard - Hot Drum Storage Area has been indicated, inform the examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Water leakage has been reported in the Barrel Yard - Hot Drum Storage Area.

INITIATING CUES:

- The SS directs you to investigate and determine the source of leakage.

JOB PERFORMANCE MEASURE WORKSHEET

TASK TITLE: PERFORM INTERIM EMERGENCY DIRECTOR ACTIONS

JPM NUMBER: A-4 **REV.** 1

RELATED PRA INFORMATION (SEE PITC 2.3): None

TASK NUMBERS: SM 352.ATI.014 / SS 3440230303

K/A NUMBERS: 2.4.38

APPLICABLE METHOD OF TESTING:

Simulate Performance: [x] Actual Performance: [ ]

Evaluation Location: Turbine Building: [ ] Auxiliary Building: [ ]

Simulator: [ ] Control Room: [x]

Other: [ ]

Time for Completion: 15 Minutes Time Critical: NO

TASK APPLICABILITY: (Check all that apply) SRO: [x] RO: [ ] NLO: [ ]

PREPARED BY: Mark J Jones **DATE:** 8/21/00

APPROVED BY: [signature] **DATE:** 8/21/00

PERFORMANCE RESULTS: **SAT:** [ ] **UNSAT:** [ ]

Operator: _____ **(SRO / RO / NLO)**

Evaluator: _____

Date: _____

READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- The SM directs you as the U2 SS to assume interim ED responsibilities.

JPM PERFORMANCE INFORMATION

Required Materials: PINGP 577 with section 2.2 filled in as follows:
a. Wind Speed = 2.5 mph
b. Wind Direction (from) = 210 °
c. Temperature = 75 °F
d. Precipitation = No
e. Stability Class = F circled
f. Affected Sectors = ALL

General References: F3-2, F3-3, PINGP 1125, and PINGP 577

Task Standards: Event classified as a Notification of Unusual Event, PINGP 1125 initialed, PINGP 577 completed and delivered to the SEC, and PA announcements.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with an "X" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: **Critical X (S-1)**	Classify the event per F3-2.
Standard:	Event classified as a Notification of Unusual Event (NUE) under EAL Reference Manual Condition Number 16A.
Evaluator Note:	**It is expected that no more than 15 minutes will be required to classify the even, complete form PINGP 577, "Emergency Notification Report Form", and give the form to the SEC to complete notifications.**
Evaluator Cue:	**If examinee reports that he/she is declaring a NUE, inform examinee that, "it is understood that a NUE is being declared."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	Fills in the time of event declaration at the top of PINGP 1125.
Standard:	Declaration time filled in.
Evaluator Note:	**Procedurally, once the classification of Notification of Unusual Event has been made, F3-2 implements F3-3, which implements form PINGP 1125, "Shift Manager/Shift Supervisor Emergency Director Checklist", which implements for PINGP 577, "Emergency Notification Report Form". Examinee will probably implement forms PINGP 577 and PINGP 1125 without procedural reference.**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-1)**	If a credible bomb threat exists, then broadcast the following message over the plant P/A system: Attention all plant personnel. Attention all plant personnel. A bomb may exist in the Auxiliary Feed Pump Room area. Stay clear of the Auxiliary Feed Pump Room. Repeat announcement.
Standard:	Announcement made and repeated. Initials and time entered on PINGP 1125.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step:
Critical _____

A Local Evacuation of a specific area of the plant may be necessary because of local hazards. A Local Evacuation may proceed as follows:

a. Determine assembly points using table as general guidance.
b. Sound the Evacuation Alarm.
c. Announce the following over the plant page.

Attention all plant personnel. There is a bomb threat occurring in the Turbine Building. All personnel should evacuate from the Turbine Building and go to the New Admin Lunchroom for accountability. Stay clear of the Turbine Building until further notified.

Repeat the announcement.

d. Direct security (4318) to conduct Personnel Accountability using F3-10 as guidance.

Standard:

a. Local Evacuation of Turbine Building determined to be necessary and the assembly point determined to be the New Admin Lunchroom.
b. Evacuation alarm sounded (switch located on panel behind 'G' panel).
c. Announcement made and repeated. (Wording describing hazard may vary, but should address the bomb threat.)
d. Security directed to perform Personnel Accountability.
e. Initials and time entered on PINGP 1125.

Evaluator Cue:

a. If examinee reports that he/she is conducting a local evacuation of the Turbine Building to the New Admin Lunchroom, inform examinee that, "it is understood that a local evacuation of the Turbine Building is being conducted to the New Admin Lunchroom."
b. When examinee reports that he/she would sound the evacuation alarm and indicates where it would be done from, inform examinee that, "the evacuation alarm has been sounded."
c. When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."
d. When examinee requests security to perform personnel accountability, acknowledge as security, then inform examinee that, "personnel accountability will be performed."

Performance: **SATISFACTORY** _____ **UNSATISFACTORY** _____

Comments: _____

Performance Step: **Critical _____**	Ensure the SEC has been summoned to the Control Room and starts the completion of the notification report form (PINGP 577).
Standard:	Initials and time entered on PINGP 1125.
Evaluator Cue:	**If asked when the SEC was summoned, inform examinee that, "the SEC was summoned to the control room 5 minutes before event declaration."**
Performance:	**SATISFACTORY _____ UNSATISFACTORY _____**
Comments:	_____

Performance Step: **Critical __X__ (S-2)**	Review and approve the notification report form PINGP 577.
Standard:	PINGP 577 completed and signed for approval as follows: • 1.1 (b) checked. • 1.2 (a) in first column and (a) in second column checked, time and date entered. • 1.3 (a) checked. • 1.4 (b) checked. • 2.1 indicates event related to Both Units, EAL is 16A. • 2.2 previously filled in by SEC, as given in JPM Initial Conditions. • 2.3 signed by examinee as interim ED.
Evaluator Note:	**The examinee should have been given a copy of PINGP 577 with the information filled in as indicated in the Required Materials section of this JPM.**
Performance:	**SATISFACTORY _____ UNSATISFACTORY _____**
Comments:	_____

Performance Step: **Critical X (S-3)**	Direct the SEC to complete the notifications of state, local, and NSP personnel in accordance with F3-5 and PINGP 579.
Standard:	PINGP 577 given to the SEC with the direction to complete notifications of state and local agencies within 15 minutes of event declaration and to activate the NSP Emergency Response Organization in accordance with F3-5 and PINGP 579.
Evaluator Cue:	**When examinee indicates that he/she would give the PINGP 577 to the SEC with direction for notifications, accept the PINGP 577 and acknowledge direction, then inform examinee that, "notifications of state and local agencies will be made within 15 minutes of event declaration and the NSP Emergency Response Organization will be activated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical X (S-4)**	Announce NUE over PA system: Attention all plant personnel: A notification of Unusual Event has been declared based on (brief description of event). Repeat the announcement.
Standard:	Announcement made and repeated.
Evaluator Cue:	**When examinee indicates that he/she would make the announcement, the content of the announcement, and that the announcement would be repeated, inform examinee that, "the announcement has been made and repeated."**
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When NUE announcement has been made, inform examinee that, "this JPM is complete."**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units are at 100% power.
- As the SM, you are in the Control Room.
- The Security SS has just informed you that a credible security threat is being responded to due to a bomb threat received by a disgruntled employee.
  - The bomb is supposedly located in the Auxiliary Feed Pump Room and set to go off 30 minutes from now.
  - Security credible threat procedures have been implemented and teams are in the process of searching the area.
  - NO BOMB OR EXPLOSIVE DEVICE HAS BEEN FOUND AT THIS TIME.
  - You will be notified immediately upon locating a bomb or explosive device.
- The SEC has been summoned to the Control Room and has completed the Meteorological Data on PINGP 577.

INITIATING CUES:

- The SM directs you as the U2 SS to assume interim ED responsibilities.