

Job Performance Measure (JPM)

SITE: **Point Beach**

JPM TITLE: **Return an Instrument to Service (FT-464)**

JPM NUMBER: **PBN JPM P012.001d.COT REV. 0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): **PBN P012.001.COT Place Reactor Protection Channels in the Tripped Condition**

K/A NUMBERS: **012 A4.04 (3.3/3.3)**

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 15 Minutes Time Critical: No

Alternate Path: _____

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:	Andrew Zommers	
	Developer	Date
Validated by:	Validator	
	(See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM Number: PBN JPM P012.001d.COT

JPM Title: Return an Instrument to Service

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 is in Mode 1.
- 1FT-464 Red Steam Flow Instrument was removed from service for repairs per 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor from Service - Red Channels.
- You are the 4th Control Operator on shift.
- The Operator at the controls will acknowledge any alarms.

INITIATING CUES (IF APPLICABLE):

- The OS1 has directed you to return 1FT-464 to service per 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor from Service - Red Channels, step 5.2.4, and establish AUTO operation of related components.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor From Service-Red, partially completed for instrument removal and restoration.

General References: 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor From Service - Red Channels Rev. 6

Task Standards: Instrument returned to service and controls in automatic

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Complete the Return to Service section of Attachment A
Critical Y

In cabinet C-112, place the following bistable trip switches to “NORMAL” (toggle switch down) **AND** check expected response.

- High Trip
- Hi Hi Trip
- SF<FWF
- SF>FWF

Standard: Bistable switches placed in NORMAL and response verified.

Evaluator Note:

- **Checking expected responses is NOT critical.**
- **Restoring each bistable is a critical step.**

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u>	Place HC-466, SG A Main Feed Reg Valve Controller in "MANUAL".
Standard:	Controller HC-466 placed in Manual
Evaluator Cue:	If, asked shift supervision directs transfer switches to be returned to Red
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>Y</u>	Place S/G A Steam Flow Control Transfer Switch to "464" (RED).
Standard:	Steam Flow Control Transfer Switch placed in 464 (RED).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>Y</u>	Place S/G A Feedwater Flow Control Transfer Switch to "466" (RED).
Standard:	Feedwater Flow Control Transfer Switch placed in 466 (RED).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>Y</u>	Place HC-466, SG A Main Feed Reg Valve Controller in "AUTO", unless directed otherwise by the Shift Manager.
Standard:	Controller HC-466 placed in Auto
Evaluator Note:	This step is critical if controller previously placed in manual.
Evaluator Cue:	If asked, Shift Manager directs controller returned to Auto
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>	Return to scan PPCS point ID FT464V, SG A-1 SF RED.
Standard:	PPCS point returned to Scan
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	Inform Shift Manger that the affected channel has been returned to service
Standard:	Inform Shift Manager that channel has been returned to service
Evaluator Cue:	Acknowledge report that channel has been returned to service.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: The JPM is complete

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- o From IC-2 or any at power IC
- o Remove 1FT-464 red Channel S/G Steam flow from service per SOP-IC-001-RED
- o Snap JPM IC for use
- o For each performance of JPM, remove point FT464V from scan on PPCS and enter a different PPCS point on the drop used.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Mode 1.
- 1FT-464 Red Steam Flow Instrument was removed from service for repairs per 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor from Service - Red Channels.
- You are the 4th Control Operator on shift.
- The Operator at the controls will acknowledge any alarms.

INITIATING CUES (IF APPLICABLE):

- The OS1 has directed you to return 1FT-464 to service per 0-SOP-IC-001 Red, Routine Maintenance Procedure Removal of Safeguards or Protection Sensor from Service - Red Channels, step 5.2.4, and establish AUTO operation of related components.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Perform a Pressurizer Heater Group Input Test Calculation

JPM NUMBER: PBN JPM P010.004.COT REV. 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P010.004.COT Monitor the pressurizer pressure control system for proper operation.

K/A NUMBERS: Generic 2.1.25 (2.8/3.1)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 15 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:	Andrew Zommers	
	Developer	Date
Validated by:	Validator	
	(See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM Number: PBN JPM P010.004.COT

JPM Title: Perform a Pressurizer Heater Group Input Test Calculation

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the Unit 1 CO.
- Unit 1 is currently in Mode 2 with a reactor startup in progress.
- Pressurizer Heater Group 1T-1C failed on the previous shift.
- Engineering has determined that a potential common mode failure exists (applicable only to Unit 1), and has recommended that TS 43, Pressurizer Heater Group Energy Input Test, be performed on Unit 1 Pressurizer Heater Group 1T-1D in order to verify its operability.
- The test is in progress, voltage and current readings have been taken by maintenance, and the procedure is complete up to and including step 5.2.10.

INITIATING CUES (IF APPLICABLE):

- You are to complete section 5.2 (1T-1D Pressurizer Heater Group Test) of TS-43 beginning at step 5.2.11.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: TS 43, Pressurizer Heater Group Energy Input Test, section 5.2 complete through step 5.2.10

Calculator

General References: TS 43, Pressurizer Heater Group Energy Input Test (Quarterly), Rev 7

Task Standards: Pressurizer Heater Group 1T-1D is identified as **NOT** meeting its Technical Specification requirement of ≥ 100 kW.

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Calculate the average voltage and average current for each breaker.
Critical N

Standard: Average voltage and average current is calculated and recorded in Table PP-13 1T-1D. (see attached table for correct values)

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Calculate the power for each breaker using provided formula.
Critical N

Standard: Power for each breaker is calculated and recorded in Table PP-13 1T-1D.

Breaker	1	2	3	4	5
Power in KW	20.7	19.8	20.4	20.4	20.7

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

Comments: _____

Performance Step: 3 Sum the Total power as follows:
Critical N

BKR# $\frac{\quad}{1} + \frac{\quad}{2} + \frac{\quad}{3} + \frac{\quad}{4} + \frac{\quad}{5} = \frac{\quad}{\text{TOTAL}}$ in KW

Standard: Power of each breaker is added together to determine total power of Pressurizer Heater Group 1T-1D.

Total power should be 102 KW

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

Comments: _____

Performance Step: 4 Multiply by uncertainty factor of 0.9335 as follows.
Critical Y

Total Power in KW _____ x 0.9335 = _____ KW
 and record result in section 6.0 Acceptance Criteria

Standard: The total power of the heater Group obtained in the previous step is multiplied by 0.9335 and recorded in section 6.0. Final value is 95.2 (± 2.0 kW).

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

Comments: _____

Retention: Life of Plant
 Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>Y</u>	The total power of Pressurizer Heater Group 1T-1D is compared with the Technical Specification Acceptance Criteria.
Standard:	Total power of Pressurizer Heater Group 1T-1D is determined to <u>NOT</u> meet Technical Specification requirements of ≥ 100 kW.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>	Independently Review the calculations for steps 5.2.10, 5.2.11, 5.2.12, and 5.2.13 to verify accuracy.
Standard:	Examinee asks for an Independent Verification of calculation
Evaluator Cue:	Sign the step to indicate that an Independent Verification as performed
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	IF using TS-43(Unit 2).xls Spreadsheet to calculate data,
Standard:	This step should be marked N/A
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: The JPM is complete

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Fill in the table in TS 43 section 5.2 as follows:

PP-13 1T-1D					
BREAKER	1	2	3	4	5
VOLTAGE					
A-B	486.5	486.5	486.5	486.4	486.4
A-C	486.2	486.4	486.3	486.3	486.3
B-C	488.8	488.8	488.7	488.7	488.6
AVERAGE	*487.2	*487.2	*487.2	*487.1	*487.1
CURRENT					
A	24.2	23.6	23.8	24.2	25.0
B	24.8	23.9	24.5	24.2	24.1
C	24.4	23.1	24.2	24.1	24.5
AVERAGE	*24.5	*23.5	*24.2	*24.2	*24.5
POWER in KW	*20.67	*19.83	*20.42	*20.42	*20.67

* **DO NOT** record these values on the paper work submitted to the candidate, they will calculate these values.

5.2.6 Record Test Instruments used.

ID No. MCCP-12 Cal. date Today

ID No. MCMM-37 Cal. date Today

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 CO.
- Unit 1 is currently in Mode 2 with a reactor startup in progress.
- Pressurizer Heater Group 1T-1C failed on the previous shift.
- Engineering has determined that a potential common mode failure exists (applicable only to Unit 1), and has recommended that TS 43, Pressurizer Heater Group Energy Input Test, be performed on Unit 1 Pressurizer Heater Group 1T-1D in order to verify its operability.
- The test is in progress, voltage and current readings have been taken by maintenance, and the procedure is complete up to and including step 5.2.10.

INITIATING CUES (IF APPLICABLE):

- You are to complete section 5.2 (1T-1D Pressurizer Heater Group Test) of TS-43 beginning at step 5.2.11.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Approve a Clearance Order

JPM NUMBER: PBN JPM SHE 119 002a REV. 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN SHE 119 002 Approve a Clearance Order

K/A NUMBERS: Generic 2.2.13 (4.1/4.3)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION:

In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 20 Minutes Time Critical: No

Alternate Path: Yes

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:		
	Developer	Date
Validated by:		
	Validator	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

JPM Number: PBN JPM SHE 119 002a

JPM Title: Approve a Clearance Order

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the relief crew SRO assigned to the Work Control Center. 2P-2C, Unit 2 Charging Pump, needs to be isolated and danger tagged per OI-50, Charging Pump Isolation, due to excessive seal leakage.
- A Master Clearance Order has been backgrounded to use as a guide in preparing the Danger Tag Series.

INITIATING CUES (IF APPLICABLE):

- You are to review the Clearance Order provided for adequacy.
- If the Clearance Order is satisfactory, then approve the Clearance Order.
- If the Clearance Order is **NOT** adequate, then identify changes that need to be made prior to approval.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

- Required Materials:** 2P-2C Clearance Order as provided.
- General References:** NP 1.9.15, Tagging Procedure
OI-50, Charging Pump Isolation
Master Data Book
Drawing WEST 684J741 sh.2 CVCS
Westinghouse Elementary Drawings.
- Task Standards:** Clearance Order is reviewed and the three errors noted in this JPM are identified.

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical <u>N</u> (SEQ-1)	Obtain and review references as needed to determine tag series adequacy.
Standard:	References (as indicated on clearance order coversheet) are obtained and reviewed as needed.
Evaluator Note:	The examiner should keep the examinee focused on the tag series review using available references (i.e. plant walk-down, review of requesting individual documentation and review of specific tags is not necessary, etc.)
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Critical <u>Y</u> (SEQ-1)	Determine if specified clearance order boundaries are adequate for worker safety and scope of work.
Standard:	Breaker for 2P-2C determined to be incorrect, breaker should be 2B52-28A.
Evaluator Note:	Incorrect breaker listed on clearance order checklist, 2B52-37A is for Charging Pump 2P-2A.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>Y</u> (SEQ-1)	Determine if specified clearance order boundaries are adequate for worker safety and scope of work.
Standard:	CV-399, P-2C Charging Pump Suction has the wrong unit designator. 1CV-399 is selected vice 2CV-399.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>Y</u> (SEQ-1)	Determine if clearance order boundaries are adequate for worker safety and scope of work.
Standard:	Drain valve 2CV-262C, 2P-2C Chg Pump Discharge Header Drain First Off Isol, is identified as being SHUT on the clearance order checklist. 2CV-262C should be listed as OPEN.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: When examinee indicates that all deficiencies have been identified OR indicates the Clearance Order is adequate, the JPM may be terminated.

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

Historical Record:

Rev 0: Developed for the ILT 2009 NRC Exam.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the relief crew SRO assigned to the Work Control Center. 2P-2C, Unit 2 Charging Pump, needs to be isolated and danger tagged per OI-50, Charging Pump Isolation, due to excessive seal leakage.
- A Master Clearance Order has been backgrounded to use as a guide in preparing the Danger Tag Series.

INITIATING CUES (IF APPLICABLE):

- You are to review the Clearance Order provided for adequacy.
- If the Clearance Order is satisfactory, then approve the Clearance Order.
- If the Clearance Order is **NOT** adequate, then identify changes that need to be made prior to approval.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: **Point Beach**

JPM TITLE: **PERFORM RCS LEAK RATE DETERMINATION**

JPM NUMBER: **PBN JPM P002.005aCOT REV. 2**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): **P002.005.COT PERFORM RCS LEAK RATE DETERMINATION**

K/A NUMBERS: **009 EA 2.33 (3.3/3.8)**

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:	Andrew Zommers	
	Developer	Date
Validated by:		
	Validator	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

JPM Number: JPM P002.005aCOT

JPM Title: PERFORM RCS LEAK RATE DETERMINATION

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 is operating at rated power with indications of a primary leak.
- AOP-1A Unit 1 Reactor Coolant Leak was entered and is currently in progress.
- Unit 1 LDGS is operating normally with controls in AUTO.
- 1P-2C Charging Pump has pre-identified leakage of 0.2 gpm.
- The following plant parameters were observed at time 0400 minutes:
 - RCS Tavg 569.8 °F
 - RCS T(Terr) 0 °F
 - PZR Level 46.5 %
 - VCT Level 45 %
 - U1 LDGS level 66"
 - U1 RCDT Level 52 %
- The following plant parameters were observed at time 0420 minutes:
 - RCS Tavg 569.8 °F
 - RCS T(Terr) 0 °F
 - PZR Level 46.0 %
 - VCT Level 43.5 %
 - U1 LDGS level 66"
 - U1 RCDT Level 52.5 %
- No borations or dilutions took place.
- There is no Chemistry sampling in progress.

INITIATING CUES (IF APPLICABLE):

- OS1 directs you to perform OI-55, Primary Leak Rate Calculation per step 21 of AOP-1A Unit 1 Reactor Coolant Leak.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: **OI-55, Primary Leak Rate Calculation.
Calculator**

General References: **OI-55, Primary Leak Rate Calculation, Rev 21.
Technical Specifications**

Task Standards: **Calculate RCS leakage per OI-55.**

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 **IF** the Unit is in Mode 1, 2, 3, or 4, **THEN** determine RCS Leak Rate as follows:
Critical N Record initial set of parameter readings on Attachment A, Primary Leak Rate Worksheet or PBF-2131(2132) Control Room Miscellaneous Shift Log.

Standard: Determine the Unit is in Mode 1 per turnover sheet.

Evaluator Note: **If the trainee asks, the leak rate should be completed on Attachment A of OI-55, not PBF-2131(2132)**

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u>	Using the same instrumentation channels for the first set of readings, record second set of parameter readings when T (error) meter is the same as in initial data set.
Standard:	None, the second set of data is given to the trainees on turnover.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>N</u>	<u>IF</u> dilution <u>OR</u> boration took place, <u>THEN</u> correct the leak rate by using the different totalizer readings. This step does not apply to PBF-2131(2132)
Standard:	Determine no dilution or boration took place.
Evaluator Cue:	If asked, per turnover inform trainee that no boration or dilution occurred.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>N</u>	<u>IF</u> operator timed manual full divert was used, <u>THEN</u> calculate the number of gallons diverted by multiplying the letdown flow in gpm times minutes diverted. This step does not apply to PBF-2131(2132)
Standard:	Determine no divert took place.
Evaluator Cue:	If asked, inform trainee that no diverts took place.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>N</u>	Calculate <u>AND</u> record leak rate.
Standard:	Calculate leak rate per Attachment A and record results.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>	On Attachment A verify Reactor Power Stable.
Standard:	Verify Reactor Power Stable.
Evaluator Note:	Per turnover sheet, Reactor Power has not changed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	On Attachment A Record data for LDGS: <ol style="list-style-type: none">1. The LDGS is operating normally with controls in AUTO AND with no level adjustments being made2. The LDGS is bypassed per OI-17, LDGS Operation3. Initial and final LDGS levels recorded in Step 2.0
Standard:	Determine LDGS operation and level normal per turnover sheet.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 8 Critical <u>Y</u>	On Attachment A Record data in section 2.0 from turnover sheet. 1. Time change 20 minutes 2. RC Tavg change is zero (0). 3. RC T(Terr) change is zero (0). 4. PZR Level change is .5 % or 32.45 gal. 5. VCT Level change is 1.5 % or 19.5 gal. 6. Stripper Level change is zero (0). 7. RCDT Level change is .5 % or 1.75 gal.
Standard:	Record data accurately from the turnover sheet and calculate the RCS leak rate.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 9 Critical <u>N</u>	On Attachment A Record data in section 3.0 RMW and BA additions
Standard:	n/a this step as it does not apply
Evaluator Note:	Per previous data given to trainee, no RMW or acid additions occurred.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>N</u>	On Attachment A Record data in section 4.0 divert.
Standard:	n/a this step as it does not apply
Evaluator Note:	Per previous data given to trainee, no diverts occurred.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 11 Critical <u>Y</u>	On Attachment A calculate RCS leak rate in section 5.0
Standard:	Calculate RCS leak rate of 2.5 to 2.7 gpm given turnover data.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12 Critical <u>Y</u>	<u>IF</u> RCS leak rate is greater than 0.15 gpm, <u>THEN</u> perform the following: Calculate RCDT leak rate:
Standard:	Calculated RCDT leak rate per section 6.0 to be .08 to .10 gpm.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13 Critical <u>Y</u>	Measure <u>AND</u> record below any identified component leakage that is <u>NOT</u> pressure boundary leakage.
Standard:	Record identified component leak rate for 1P-2C charging pump.
Evaluator Note:	1P-2C Charging pump has 0.2 gpm identified leakage as stated in initial conditions.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 14 Critical <u>Y</u>	Add the RCDT leak rate to the sum of the identified component leak rates to obtain Identified Leakage.
Standard:	Calculate RCS identified leakage to be .28 to .30 gpm.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 15 Critical <u>Y</u>	Subtract Identified leakage form the RCS leak rate to obtain Unidentified Leakage.
Standard:	Calculate RCS unidentified leakage to be 2.20 to 2.42 gpm.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 16 Critical <u>N</u>	Primary Leak Rate calculation completed
Standard:	Attachment A signed off that calculation was completed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 17 Critical <u>N</u>	Independent verification of calculation completed.
Standard:	Independent verification of calculation requested.
Evaluator Note:	Evaluator should sign as the IV check to satisfy procedural usage requirements.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 18
Critical N

IF RCS unexplained leakage shows an increasing trend,
OR reaches 0.15 gpm,
THEN perform the following actions:

- Inform the Shift Manager and Duty Station Manager.
- Check the following at least once per hour:
 - Containment particulate monitor (RE 211) high and low values.
 - Containment radiogas monitor (RE 212) high and low values.
 - Containment humidity.
- Perform the RCS leakrate calculation of Section 5.4 OR 5.5 as applicable at least once per shift.
- Obtain a sump A sample and have Chemistry analyze to aid in determining the source of leakage.
- Direct Chemistry to sample and analyze Containment atmosphere for hydrogen content AND report the results to the SM.
- **IF** a containment inspection is warranted to localize the source of leakage, **THEN** the inspection should consist of the following:
 - Evidence of steam in containment.
 - Wetness on the floor.
 - Boric Acid deposits.
 - Abnormal packing or gasket leakage.
 - Reactor vessel head locations as permitted by Health Physics.

Standard: Examinee identifies actions required as listed by procedure

Evaluator Cue: **Shift Manager will have OS 2 address actions contained in step 5.8**

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Job Performance Measure (JPM)

Performance Step: 19 Critical <u>Y</u>	<u>IF</u> the plant is in Mode 1 through 4, <u>AND</u> Unidentified Leakage exceeds one gpm, <u>THEN</u> enter Technical Specification LCO 3.4.13 Action Condition.
Standard:	Identify RCS unidentified leakage >1 gpm is in excess of limit for Technical Specifications LCO 3.4.13.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: **The JPM is complete.**

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

THIS IS A KEY DO NOT HAND OUT

ATTACHMENT A
PRIMARY LEAK RATE WORKSHEET

UNIT _____

DATE _____

NOTE: Normally, no system dilution, boration, or divert to holdup tank should take place. However, if required, blender totalizers and operator timed manual full divert can account for these operations. Positive leak rates indicate leakage from the RCS.

NOTE: VCT Level is taken at the same point in the level cycle when the LDGS is on-line to provide as accurate of a leak rate as possible.

INITIALS

1.0 Monitor **AND** maintain the following during the performance of this test:

1.1 Reactor Power is stable. _____

1.2 The Letdown Gas Stripper (LDGS) meets ONE of the following:

1.2.1 The LDGS is operating normally with control in AUTO **AND** with no level adjustments being made. _____

1.2.2 The LDGS is bypassed per OI-17, Letdown Gas Stripped Operation. _____

1.2.3 Initial and final LDGS levels recorded in Step 2.0 _____

NOTE: Final and Initial values of Terr must be equal.

2.0 Record the following data:

RCS LEAK RATE DATA				
Parameter	Initial	Final	Formula	Result
Time (T) min	0	20	$T_F - T_I = T\Delta$	20 min
RC T _{avg} (Tavg)	569.8 °F	569.8 °F	$T_{avg_I} - T_{avg_F} = T_{avg}\Delta$	0 °F
RC T _{error} (Terr)	0 °F	0 °F	$T_{err_I} - T_{err_F} = Terr\Delta$	0 °F
Pzr Level (PZR)	46.5 %	46 %	$(PZR_I - PZR_F) * 64.9 = PZR_{gal}$	32.45 gal
VCT Level (VCT)	45 %	43.5 %	$(VCT_I - VCT_F) * 13 = VCT_{gal}$	19.5 gal
Stripper Level (STP)	66 in	66 in	$(STP_I - STP_F) * 17 = STP_{gal}$	0 gal
RCDT Level (RCDT)	52 %	52.5 %	$(RCDT_F - RCDT_I) * 3.5 = RCDT_{gal}$	1.75 gal

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

THIS IS A KEY DO NOT HAND OUT

ATTACHMENT A

PRIMARY LEAK RATE WORKSHEET

3.0 **IF** RMW or BA additions are made during test period,
THEN record the following data:

RMW AND BA ADDITIONS	
Time of Addition	Gallons Added
	gal
	gal
	gal
Total Gallons Added (MU _{gal}):	0 gal

4.0 **IF** divert to holdup tank is performed during test period,
THEN record the following data:

DIVERT				
Time of Divert	Flow Rate (D _F)	Divert Duration (D _T)	Formula	Gallons Diverted (D _V)
	gpm	min	$D_F \times D_T = D_V$	gal
	gpm	min	$D_F \times D_T = D_V$	gal
	gpm	min	$D_F \times D_T = D_V$	gal
Total Gallons Diverted (D _{gal}):				0 gal

5.0 Calculate RCS leak rate:

CALCULATED RCS LEAK RATE		
Parameter	Formula	Leak Rate
RCS Leak Rate (LR _{RCS})	$(PZR_{gal} + VCT_{gal} + STP_{gal} + MU_{gal} - D_{gal}) \div T\Delta = LR_{RCS}$	2.5-2.7 gpm

6.0 **IF** RCS Leak Rate is greater than 0.15 gpm,
THEN perform the following:

6.1 Calculate RCDT leak rate:

CALCULATED RCDT LEAK RATE		
Parameter	Formula	RCDT Leak Rate
RCDT Leak Rate (LR _{RCDT})	$RCDT_{gal} \div T\Delta = LR_{RCDT}$.08-10 gpm

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

THIS IS A KEY DO NOT HAND OUT

ATTACHMENT A

PRIMARY LEAK RATE WORKSHEET

6.2 Measure **AND** record below any identified component leakage that is **NOT** Pressure Boundary Leakage:

COMPONENT LEAK RATE	
Component	Leak Rate
Unit 1 P-2C Charging Pump	0.2 gpm
	gpm
	gpm
	gpm
Total Component Leakage (LR _C):	0.2 gpm

6.3 Calculate Identified Leakage:

RCS IDENTIFIED LEAKAGE		
Parameter	Formula	Identified Leakage
RCS Identified Leakage (LR _{ID})	LR _{RCDT} + LR _C = LR _{ID}	.28 to 0.30 gpm

6.4 Calculate Unidentified Leakage:

RCS UNIDENTIFIED LEAKAGE		
Parameter	Formula	Unidentified Leakage
RCS Unidentified Leakage (LR _{UID})	LR _{RCS} - LR _{ID} = LR _{UID}	2.20 to 2.42 gpm

7.0 Primary Leak Rate calculation completed.

8.0 Independent Verification of calculations completed.

IV

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is operating at rated power with indications of a primary leak.
- AOP-1A Unit 1 Reactor Coolant Leak was entered and is currently in progress.
- Unit 1 LDGS is operating normally with controls in AUTO.
- 1P-2C Charging Pump has pre-identified leakage of 0.2 gpm.
- The following plant parameters were observed at time 0 minutes:
 - RCS Tavg 569.8 °F
 - RCS T(Terr) 0 °F
 - PZR Level 46.5 %
 - VCT Level 45 %
 - U1 LDGS level 66"
 - U1 RCDT Level 52 %
- The following plant parameters were observed at time 20 minutes:
 - RCS Tavg 569.8 °F
 - RCS T(Terr) 0 °F
 - PZR Level 46.0 %
 - VCT Level 43.5 %
 - U1 LDGS level 66"
 - U1 RCDT Level 52.5 %
- No borations or dilutions took place.

INITIATING CUES (IF APPLICABLE):

- OS1 directs you to perform OI-55, Primary Leak Rate Calculation per step 21 of AOP-1A Unit 1 Reactor Coolant Leak.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: REMOVE AN RMS CHANNEL FROM SERVICE

JPM NUMBER: PBN JPM P119.903.SRO REV. 0

RELATED PRA INFORMATION:

TASK NUMBERS / TASK TITLE(S): P119.903.SRO Evaluate RMS abnormalities

K/A NUMBERS: 2.3.13 (3.4/3.8)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION:

In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 30 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:	Andrew Zommers	
	Developer	Date
Validated by:	Validator	
	(See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM Number: PBN P119.903.SRO

JPM Title: REMOVE AN RMS CHANNEL FROM SERVICE

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the Unit 1 OS with the plant operating in Mode 1.
- RE-225 Combined Air Ejector and RE-214 Auxiliary Building Vent stack have been removed from service due to a DAM 7 failure.
- RE-315 ABVS Exhaust SPING Low Range Gas Channel has been removed from service due to a sample pump failure
- The 3rd RO just reported that 1RE-215 Condenser Air Ejector Gas Monitor Unit 1 has failed high.

INITIATING CUES (IF APPLICABLE):

- The Shift Manager has directed you to remove 1RE-215 from service per PBF-2068g 1RE-215.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: PBF-2068g 1RE-215 Unit 1 Stream Air Ejector
PBF-2068g RE-315 ABVS Exhaust SPING low range Gas filled out for being removed from service.
PBF-2068g RE-214 PAB Vent Stack filled out for being removed from service
PBF-2068g RE-225 Combined Air Ejector filled out for being removed from service

General References: RMSASRB's
CAMP 014 Steam Generator Tube Leak Calculation
TRM 3.3.1 Instrumentation
TS 3.4.13 RCS Operational Leakage
NP 3.2.4 Primary to Secondary Leak Rate Monitoring Program
Radiological Effluent Control Manual (RECM)

Task Standards: Remove 1RE-215 Condenser Air Ejector Gas Monitor Unit 1 from service per PBF-2068g 1RE-215.

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).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical <u>N</u>	Determine Channel Number.
Standard:	Verify correct channel number on PBF-2068g. [1RE-215 (3-5)]
Evaluator Note:	Completed PBF-2068g's for 1RE-315, RE-214 and RE-225 should be made available for review if asked for during the remainder of this JPM.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u>	Determine Channel Name/Location.
Standard:	Verify correct Channel Name/Location on PBF-2068g. (Unit 1 Steam Air Ejector/ 44' El. Unit 1 Turbine Hall)
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Standard:

Performance Step: 3 Critical <u>N</u>	Determine if TS, RECM, or E-Plan applicable.
Standard:	Verify TS, RECM and E-Plan applicable for 1RE-215.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>N</u>	Determine applicable sections of TS, RECM or E-Plan.
Standard:	Verify listed references on PBF-2068g 1RE-215.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>N</u>	Determine redundant channel or compensatory action required.
Standard:	Determine redundant channels and compensatory measures are required.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>Y</u>	If required, then list below (otherwise mark N/A)
Standard:	<ul style="list-style-type: none">• Determine Chemistry needs sample and analyze Unit 1 S/G's within 4 hours per CAMP014.• Determine sampling frequency increase of Unit 1 steam air ejector radgas to 7 times per week per CAMP014.• Increase sampling of Unit 1 S/G's for gamma and tritium once per 24 hours per CAMP014.
Evaluator Note:	Critical part of this step is the 4 hour limit to get the first sample.
Evaluator Cue:	If asked, current primary to secondary leakage is 0.01 gpd
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>Y</u>	If required, then list below (otherwise mark N/A)
Standard:	Determine grab samples once per 12 hours per RECM Note 6 for table 3-2.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 6 Critical <u>Y</u>	If required, then list below (otherwise mark N/A)
Standard:	TLCO 3.3.1 not met. TRMAC 3.3.1.A and TRMAC 3.3.1.D entered to determine Secondary Gross activity once per 24 hours.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	Determine time channel may be out of service.
Standard:	Verify 4 hours is the most time limiting requirement for taking 1RE-215 OOS.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>N</u>	Name(s) of Chem and/or RP supervision contacted.
Standard:	List names of contacted personnel from RP and Chemistry.
Evaluator Cue:	Shift Chemistry Technician has been notified. Shift RP Technician has been notified.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 9 Critical <u>N</u>	If required, notify Regulatory Affairs of potential Reportability requirements.
Standard:	List name of Regulatory Affairs person notified.
Evaluator Cue:	The on call Regulatory Affairs person has been contacted.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>N</u>	Name(s) of Emergency Plan staff contacted (at earliest convenience):
Standard:	List names of contacted personnel from E-Plan.
Evaluator Cue:	The on call Emergency Plan staff person has been notified.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11 Critical <u>N</u>	SM authorization to remove the channel from service or acknowledgment that the channel has failed:
Standard:	Have Shift Manager acknowledge that 1RE-215 has failed.
Evaluator Note:	The examinee may request the SM initials to be filled out. Initial the block as the SM in order to complete the JPM.
Evaluator Cue:	Shift Manager acknowledges your report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 12 Critical <u>N</u>	Channel placed into Maintenance or other mode:
Standard:	1RE-215 placed in maintenance.
Evaluator Cue:	If asked, the RO has place 1RE-215 in maintenance.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13 Critical <u>N</u>	Reason the channel was removed from service (circle one):
Standard:	1RE-215 failure circled.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues:

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

Historical Record:

Rev 0: Developed for the ILT 2009 NRC exam.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 OS with the unit operating in Mode 1.
- RE-225 Combined Air Ejector and RE-214 Auxiliary Building Vent stack have been removed from service due to a DAM 7 failure.
- RE-315 ABVS Exhaust SPING Low Range Gas Channel has been removed from service due to a sample pump failure
- The 3rd RO just reported that 1RE-215 Condenser Air Ejector Gas Monitor Unit 1 has failed high.

INITIATING CUES (IF APPLICABLE):

- The Shift Manager has directed you to remove 1RE-215 from service per PBF-2068g 1RE-215.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: SUPPLY THE TSC WITH EMERGENCY POWER

JPM NUMBER: JPM P000.009aCOT REV. 0

RELATED PRA INFORMATION:

TASK NUMBERS / TASK TITLE(S): P000.009.COT / SUPPLY THE TSC WITH EMERGENCY POWER

K/A NUMBERS: Gen – 2.4.29 (2.6/4.0)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION:

In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 12 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by: _____	Developer	Date
Validated by: _____	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by: _____	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM Number: JPM P000.009COT

JPM Title: SUPPLY THE TSC WITH EMERGENCY POWER

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

You are a licensed operator called in to support the on-shift operations crew.

A serious plant transient has occurred, resulting in the following conditions:

- 13.8 kV AC buses H01 and H02 are de-energized.
- 4.16 kV and 480 VAC buses 1A05/1B03 and 1A06/1B04 are being supplied by their emergency diesel generators.
- 4.16 kV and 480 VAC buses 1A01/1B01 and 1A02/1B02 are de-energized.
- The G501 diesel generator ("Dinky Diesel") is currently running and supplying the G05 gas turbine auxiliaries.
- Because of the failure (fault) associated with the 13.8 kV H01 bus, the G05 Gas Turbine cannot be used and is NOT running.
- An Unusual Event emergency classification has been declared by the Shift Manager.
- Additional ERO resources have been called in for support, however, the TSC currently has no power.

INITIATING CUES (IF APPLICABLE):

The Shift Manager has requested that you supply the TSC with emergency power per EPIP 4.1, Attachment C.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: EPIP 4.1, Technical Support Center (TSC) Activation and Evacuation, Rev. 37

General References: EPIP 4.1, Technical Support Center (TSC) Activation and Evacuation, Rev. 37

Task Standards: Breakers are re-aligned to supply the TSC with emergency power per EPIP 4.1, Technical Support Center (TSC) Activation and Evaluation, Rev. 37

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical <u>N</u>(SEQ-1)	Attachment C of EPIP 4.1 reviewed, applicable section/steps needed to perform task determined.
Standard:	Section 2.0 "Operation" determined to be the appropriate section of Attachment C to perform.
Evaluator Cue:	If examinee expresses concern with the third CAUTION (directly above Step 2.1.1), indicate that supervision is generating a tag series to ensure both breakers will not be closed simultaneously.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u> (SEQ-1)	Place breaker 52T control switch to open.
Standard:	Breaker 52T control switch placed in the open position.
Evaluator Cue:	Breaker 52T control switch is in the open position, the green and red indicating lights are off.
Evaluator Note:	Both indicating lights are off for breaker 52T since the switch is not in the circuit with the Auto/Manual selector switch in the Auto position.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>Y</u> (SEQ-2)	The Auto/Manual selector switch must be placed to <u>MANUAL</u> .
Standard:	Auto/Manual selector switch on panel H-507 is placed in MANUAL.
Evaluator Cue:	The Auto/Manual control switch is in MANUAL, green light is lit for breaker 52T.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>Y</u> (SEQ-3)	Breaker (52E) to G05 auxiliaries <u>OPENED</u> locally via its control switch.
Standard:	Breaker 52E is locally opened using its control switch on panel H-507.
Evaluator Cue:	Red light is lit above breaker 52E (prior to reaching this step). After manipulation, the green light is lit above breaker 52E.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>Y</u>(SEQ-4)	Breaker (52T) TSC loads, <u>CLOSED</u> locally via its control switch.
Standard:	Breaker 52T is closed locally by placing its control switch in the closed position.
Evaluator Cue:	Red light is lit above control switch for breaker 52T.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>(SEQ-5)	Recognize the fuel supply limitation for the G501 diesel generator (Step 2.2).
Standard:	An approximate 3 hour fuel supply is determined to exist unless a manual fill is performed.
Evaluator Cue:	The 13.8 kV bus H01 is expected to be restored in approximately 1 hour (manual fill is not necessary).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>(SEQ-5)	Shift Manager is notified that Attachment C of EPIP 4.1 is complete.
Standard:	Shift Manger contacted and notified of Attachment C status.
Evaluator Cue:	The Shift Manager acknowledges the report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Terminating Cues:

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

Historical Record:

Rev 0: Developed for the ILT 2009 NRC exam.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

You are a licensed operator called in to support the on-shift operations crew.

A serious plant transient has occurred, resulting in the following conditions:

- 13.8 kV AC buses H01 and H02 are de-energized.
- 4.16 kV and 480 VAC buses 1A05/1B03 and 1A06/1B04 are being supplied by their emergency diesel generators.
- 4.16 kV and 480 VAC buses 1A01/1B01 and 1A02/1B02 are de-energized.
- The G501 diesel generator ("Dinky Diesel") is currently running and supplying the G05 gas turbine auxiliaries.
- Because of the failure (fault) associated with the 13.8 kV H01 bus, the G05 Gas Turbine cannot be used and is NOT running.
- An Unusual Event emergency classification has been declared by the Shift Manager.
- Additional ERO resources have been called in for support, however, the TSC currently has no power.

INITIATING CUES (IF APPLICABLE):

The Shift Manager has requested that you supply the TSC with emergency power per EPIP 4.1, Attachment C.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: **Point Beach**

JPM TITLE: **PERFORM REQUIRED NOTIFICATIONS**

JPM NUMBER: **PBN JPM P119.214aSRO REV. 0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): **P119.214.SRO / PERFORM REQUIRED NOTIFICATIONS**

K/A NUMBERS: **2.4.29 (3.1/4.4) 2.4.40 (2.7/4.5)**

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 15 Minutes Time Critical: Yes

Alternate Path: No

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

Developed by:	Andrew Zommers	
	Developer	Date
Validated by:	Validator	
	(See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

JPM Number: JPM P119.214aSRO

JPM Title: PERFORM REQUIRED NOTIFICATIONS

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are participating in an ERO Team Training Drill. The following conditions exist in the Simulator.
- Unit 1 and Unit 2 were operating at 100% normal steady-state conditions.
- An RCS leak occurred inside containment on Unit 1 which led to trip criteria per the AOP's.
- Shift management ordered a Unit 1 trip at 0800.
- The RO tried to trip the reactor manually with both sets of pushbuttons unsuccessfully.
- The RO tried to de-energize 1B01 and 1B02 480 VAC busses unsuccessfully.
- An AO has been dispatched to open the Unit 1 reactor trip breakers locally.
- An automatic Safety Injection has occurred on low Pressurizer pressure.
- The Crew is responding in accordance with the Critical Safety Procedures (CSP's).

It is 0812 and the Shift Manager has just declared a Site Area Emergency classification in accordance with EAL SS2.1, Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Trip Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Trip Was NOT Successful.

PPCS page 2726 indicates the following:

Wind Speed 12.6 MPH
Wind Direction 303.2 DEGREES
Stability Class 'D'
Lake Breeze 'NO'

INITIATING CUES (IF APPLICABLE):

- The Shift Manager (Emergency Director) has directed you to complete the Nuclear Accident Reporting System Form (NARS) through, and including Box 11 and return the form to him for his authorization signature per EPIP 1.1, Course of Actions, Section 10.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

This JPM is time critical.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: EPIP 1.1, Course of Actions.

General References: EPIP 1.1, Course of Actions, Section 10, Nuclear Accident Reporting System Form (NARS)

Task Standards: EPIP 1.1, Course of Actions, Section 10, Nuclear Accident Reporting System Form (NARS), Boxes 1 through 11 and returns it to the Shift Manager (Emergency Director) in less than or equal to 15 minutes.

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).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical <u>N</u>	Fill out heading.
Standard:	Examinee circles CR
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2 Critical <u>Y</u>	Box 1 Reason For Call
Standard:	The Examinee checks Initial Report box
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 3 Critical <u>Y</u>	Box 2 Status
Standard:	The Examinee checks the [B] Drill / Exercise
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>N</u>	Box 3 Affected Station
Standard:	The Examinee ensures that the [B] Point Beach box is checked
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>N</u>	Box 4 Onsite Classification
Standard:	The Examinee ensures the [C] Site Area Emergency box is checked
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 6 Critical <u>Y</u>	
Standard:	<ul style="list-style-type: none">• The Examinee ensures the [A] Classification box is checked,• Enters 0812 and today's date, and• Enters the EAL# (EAL SS2.1)
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>Y</u>	Box 6 Event Release Status
Standard:	The Examinee checks the [A] None.
Evaluator Note:	Indicate whether a radioactive release is occurring. The definition of radioactive release is the release of radioactive material to the environment attributable to the emergency event. Examples are given on back of NARS form box 6.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>Y</u>	
Standard:	The Examinee checks the [A] Not Applicable.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 9 Critical <u>Y</u>	Box 8 Wind Direction
Standard:	<ul style="list-style-type: none">• The Examinee enters the From ____ Degrees value (303.2°) and• Circles the affected sectors (EFGH).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>Y</u>	
Standard:	<ul style="list-style-type: none">• The Examinee enters the Miles/Hr.: ____ value (12.6 mph) and• Circles the applicable Stability Class (D).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11 Critical <u>Y</u>	
Standard:	The Examinee checks the [A] None block.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 12 Critical <u>N</u>	
Standard:	The Examinee at a minimum describes the EAL being implemented, Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Trip Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Trip Was NOT Successful
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13 Critical <u>Y</u>	Return the form to the Emergency Director for approval.
Standard:	The Examinee returns the form (Boxes 1 through 11 completed) to the Shift Manager (Emergency Director) for his review and approval within 15 min.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: The Evolution is complete.

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

THIS IS KEY DO NOT HAND OUT
 ATTACHMENT B
 NUCLEAR ACCIDENT REPORTING SYSTEM FORM (NARS)

TIME ANSWERED

State Warning Center I or II _____ (Time) Kewaunee Co. _____ (Time) Manitowoc Co. _____ (Time)

"This is the Point Beach Nuclear Site calling from the (circle one) **CR/TSC/EOF/AEOF**. An incident has occurred at our facility. Please record the following information on your Nuclear Accident Reporting System form." (Read below Box 1 through Box 12)

1. Reason For Call: <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Emergency Classification Change <input type="checkbox"/> PAR Change <input type="checkbox"/> Change in Release Status	
2. STATUS <input type="checkbox"/> [A] Actual Event <input checked="" type="checkbox"/> [B] Drill/Exercise	3. AFFECTED STATION <input checked="" type="checkbox"/> [B] Point Beach
4. ONSITE CLASSIFICATION <input type="checkbox"/> [A] Unusual Event <input type="checkbox"/> [B] Alert <input checked="" type="checkbox"/> [C] Site Area Emergency <input type="checkbox"/> [D] General Emergency <input type="checkbox"/> [E] Recovery <input type="checkbox"/> [F] Terminated	5. TIME & DATE OF CLASSIFICATION / PAR CHANGE / TERMINATION <input checked="" type="checkbox"/> [A] Classification Time <u>0812</u> Date <u>Today</u> EAL # <u>SS2.1</u> ----- <input type="checkbox"/> [B] Par Change Time _____ Date _____ <input type="checkbox"/> [C] Recovery/Termination Time _____ Date _____
6. EVENT RELEASE STATUS <input checked="" type="checkbox"/> [A] NONE <input type="checkbox"/> [B] OCCURRING <input type="checkbox"/> [C] TERMINATED	
7. TYPE OF RELEASE <input checked="" type="checkbox"/> [A] NOT APPLICABLE <input type="checkbox"/> [B] AIRBORNE <input type="checkbox"/> [C] LIQUID	
8. WIND DIRECTION FROM <u>303.2</u> DEGREES DOWNWIND SECTORS: A B C D <u>E F G H</u> J K L M N P Q R (Circle affected sectors.)	9. WIND SPEED & STABILITY CLASS (Circle applicable stability class) MILES/HR.: <u>12.6</u> STABILITY CLASS: A B C <u>D</u> E F G (Unstable < = = > Stable)
10. PROTECTIVE ACTION RECOMMENDATIONS <input checked="" type="checkbox"/> [A] NONE <input type="checkbox"/> [B] EVACUATE ALL SECTORS OUT TO _____ MILES <input type="checkbox"/> [C] SHELTER ALL SECTORS OUT TO _____ MILES EVACUATE SECTORS _____ OUT TO _____ MILES SHELTER SECTORS _____ OUT TO _____ MILES	
11. ADDITIONAL INFORMATION (EAL Description) <u>Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Trip Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Trip Was NOT Successful</u>	

ED: APPROVAL SIGNATURE _____ **DATE / TIME APPROVED** _____ / _____

1. "State Warning Center, please read back this message to verify accuracy." (Pause to allow message to be read back)
2. "Have all agencies received this message?" (Wait for reply)
3. "Relay this information to Emergency Management immediately. Have the appropriate personnel verify this message by placing a return phone call. The return phone number is _____."

12. EMERGENCY COMMUNICATOR _____ (Print/sign)
--

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are participating in an ERO Team Training Drill. The following conditions exist in the Simulator.
- Unit 1 and Unit 2 were operating at 100% normal steady-state conditions.
- An RCS leak occurred inside containment on Unit 1 which led to trip criteria per the AOP's.
- Shift management ordered a Unit 1 trip at 0800.
- The RO tried to trip the reactor manually with both sets of pushbuttons unsuccessfully.
- The RO tried to de-energize 1B01 and 1B02 480 VAC busses unsuccessfully.
- An AO has been dispatched to open the Unit 1 reactor trip breakers locally.
- An automatic Safety Injection has occurred on low Pressurizer pressure.
- The Crew is responding in accordance with the Critical Safety Procedures (CSP's).

It is 0812 and the Shift Manager has just declared a Site Area Emergency classification in accordance with EAL SS2.1, Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Trip Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Trip Was NOT Successful.

PPCS page 2226 indicates the following:

Wind Speed 12.6 MPH
Wind Direction 303.2 DEGREES
Stability Class 'D'
Lake Breeze 'NO'

INITIATING CUES (IF APPLICABLE):

- The Shift Manager (Emergency Director) has directed you to complete the Nuclear Accident Reporting System Form (NARS) through, and including Box 11 and return the form to him for his authorization signature per EPIP 1.1, Course of Actions, Section 10.

This JPM is time critical.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

ATTACHMENT 1

Job Performance Measure Validation Checklist

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.