

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: PERFORM ROD EXERCISE TEST

JPM NUMBER: PBN JPM P001.020COT REV. 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P001.020.COT/PERFORM CONTROL ROD EXERCISES

K/A NUMBERS: 001.K4.02 (3.8/3.8), 001.A3.05 (3.5/3.5), 001.A4.03 (4.0/3.7)

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:	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 P001.020COT

JPM Title: PERFORM ROD EXERCISE TEST

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

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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 at 100% power, steady state Xenon.

INITIATING CUES:

- The SRO has directed you to perform TS-5, "Rod Exercise Test Unit 1." The Pre-job brief has been completed.
- An AO is standing by in the Unit 1 Rod Drive MG Set Room to assist in the performance of the test.

Retention: Life of Plant
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Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: TS-5, Rod Exercise Test Unit 1
REI 7.0, Control Rod Position Determination

General References: TS-5, Rod Exercise Test Unit 1 Rev 31
REI 7.0, Control Rod Position Determination Rev 24

Task Standards: Bank D rods have been exercised, bank overlap counter discrepancy corrected and bank D rods returned to their original position.

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>	Review Precautions/Limitations and Initial Conditions
Standard:	The examinee reviews TS-5, Rod Exercise Test Precautions and Limitations and Initial Conditions.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u>	Record the following indications: RDC-LOGIC Cabinet (Key #21): -Bank Overlap Counter reading
Standard:	Examinee contacts Unit 1 Turbine Hall Operator and obtains the Bank Overlap Counter Reading.
Evaluator Note:	Counter Reading is in the rod control cabinet in the Rod Drive MG set Room.
Evaluator Cue:	AO reports that the Bank Overlap Counter is reading 594.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>N</u>	Status of the Group Select Lights for the following power cabinets: -1AC – Group Select Light “C” -2AC – Group Select Light “C” -1BD – Group Select Light “B”
Standard:	Examinee contacts the U1 TH Operator and obtains the status of the lights.
Evaluator Note:	Light status is found on the power cabinets in the RD MG Set Room
Evaluator Cue:	AO Reports “C” lights lit for 1AC and 2AC and “B” light lit for 1BD.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 4 Critical <u>Y</u>	1C04, Rod Bank Group (Demand) counters: -Control Bank A Group 1 -Etc.
Standard:	The examinee correctly records Control and Shutdown Bank Group Demand counter readings.
Evaluator Note:	*All Bank Demand counters should indicate 228 steps except Bank D which should indicate 220 steps. Since only Bank D rods are being exercised for this JPM, only the Bank D readings are critical.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>N</u>	1C-120A, RPI #1, Bank Position Display -Bank A -Bank B -Bank C -Bank D
Standard:	The examinee correctly records bank positions on 1C-120A.
Evaluator Note:	Bank Positions are indicated behind the Main Control Boards on 1C-120A. Examinee may ask permission to go behind the boards. Indicate that the 3rd license will have responsibility for the Unit while the examinee retrieves the readings.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 6 Critical <u>N</u>	Compare the Bank Overlap Counter reading to Control Bank position (Step Counters) in REI 7.0, Control Rod Position Determination.
Standard:	The examinee obtains a copy of REI 7.0 and compares the Control Bank position with the Bank Overlap Counter and determines whether the readings agree.
Evaluator Note:	The examinee should determine that the Control Bank position and Bank Overlap Counter do NOT agree. With Control Bank D at 220 steps, the Bank Overlap Counter should read 595.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>Y</u>	If the Control Bank Position AND Bank Overlap Counter reading do not agree, then perform Attachment A.
Standard:	The examinee determines the readings do not agree and goes to attachment A.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>Y</u>	Place Rod control selector to Manual
Standard:	The examinee places Rod control selector switch to the Manual position.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 9 Critical <u>Y</u>	Step Control Bank D out 1 step from its current position.
Standard:	The examinee steps Control Bank D out 1 step.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>Y</u>	Bump step Control Bank D in one step.
Standard:	The examinee bumps Control Bank D in one step.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11 Critical <u>N</u>	Check card A105 has the BOTTOM LIGHT ILLUMINATED (top row, 3 rd card from the left in the Rod Control Logic Cabined directly above the Bank Overlap Counter).
Standard:	The examinee contacts the Auxiliary Operator in the Rod Drive Room and obtains status of card A105 bottom light.
Evaluator Note:	Based on the report from the AO, steps 5.0 and 6.0 of Attachment A will be N/A
Evaluator Cue:	The AO reports card A105 has the bottom light illuminated.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 12 Critical <u>N</u>	Compare the Bank D Demand Position (Step Counters) to the Bank Overlap Counter.
Standard:	The examinee contacts the AO for the Bank Overlap Counter reading and compares the Step Counter for Bank D to the obtained Bank Overlap Counter reading.
Evaluator Cue:	AO reports the Bank Overlap Counter reads 595.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13 Critical <u>Y</u>	IF the Control Bank D Position (Step Counters) and the Bank Overlap Counter do not agree, THEN adjust the Bank Overlap Counter at RDC Logic Cabinet by depressing the +1 or -1 button as necessary until the proper value correlating to the Control Rod Bank D Position (Step Counters).
Standard:	Determine step is not required to be performed and N/A.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 14 Critical <u>N</u>	Return the Control Rod selector switch to AUTO.
Standard:	The examinee places Control Rod selector to auto.
Evaluator Note:	When examinee asks for an Independent Verification of this step, initial the step for IV.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 15 Critical <u>N</u>	If printed PPCS data is required, then obtain a screen print of PPCS display page 2121 prior to and following movement of each rod group.
Standard:	The examinee requests whether PPCS printed data is required.
Evaluator Note:	Examinee may wish to print the data, inform them that it is not required.
Evaluator Cue:	Printed PPCS data is not required.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 16 Critical <u>Y</u>	IF Control Bank D is not fully inserted, THEN perform the following exercise test: Place the Control Rod Bank Selector switch to the CBD position.
Standard:	The examinee places the Control Rod Bank Selector switch to the CBD position.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 17 Critical <u>N</u>	Perform the following rod step sequence twice: Step Control Bank D out 1 step from its current position.
Standard:	The examinee steps Control Bank D out 1 step.
Evaluator Note:	This step and the next will be repeated.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

Performance Step: 18 Critical <u>N</u>	Bump step Control Bank D in one step.
Standard:	The examinee bumps Control Bank D in one step.
Evaluator Note:	This step and the previous will be repeated.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 19 Critical <u>Y</u>	Insert OR Withdraw Control Bank D at least 10 steps but no more than 20 steps while observing movement on individual Control Bank D rods.
Standard:	The examinee inserts Control Bank D at least 10 but not more than 20 steps.
Evaluator Note:	The examinee must recognize that there is not enough "room" to withdraw the rods 10 steps and must therefore insert the rods the required distance
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 20 Critical <u>Y</u>	Withdraw OR insert Control Bank D to the position recorded in Step 5.1.3
Standard:	The examinee withdraws Control Bank D to its original position recorded in Step 5.1.3.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
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Job Performance Measure (JPM)

Performance Step: 21 Critical <u>Y</u>	Withdraw Control Bank D one step.
Standard:	The examinee withdraws Control Bank D one step.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 22 Critical <u>Y</u>	Insert Control Bank D one step.
Standard:	The examinee inserts Control Bank D one step.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 23 Critical <u>N</u>	Ensure Control Bank D is in the position recorded in Step 5.1.3.
Standard:	The examinee ensures the Control Bank D Group Demand Counter reading matches the number obtained in step 5.1.3.
Evaluator Note:	CB D Demand Counter should read 220. When examinee asks for an Independent Verification of this step, initial the step for IV.
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

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Job Performance Measure (JPM)

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

Simulator Setup Instructions:

- o Snap Simulator into IC-2
- o Verify Rod Counter reading are at 228 for all banks except CB D which should be set to 220.

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 CO.
- Unit 1 is at 100% power, steady state Xenon.

INITIATING CUES:

- The SRO has directed you to perform TS-5, “Rod Exercise Test Unit 1.” The Pre-job brief has been completed.
- An AO is standing by in the Unit 1 Rod Drive MG Set Room to assist in the performance of the test.

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
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Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Respond to a loss of Containment Sump Recirculation Capability

JPM NUMBER: PBN JPM P000.023.COT REV. 3

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P000.023.COT / Respond to a loss of Containment Sump Recirculation Capability

K/A NUMBERS: E11 EK1.2(3.6/4.1), E11 EK3.3(3.8/3.8), E11 EA2.2 (3./4.2)

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: Yes

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
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Job Performance Measure (JPM)

JPM Number: JPM P000.023.COT

JPM Title: Respond to a loss of Containment Sump Recirculation Capability

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 third RO
- Unit 1 has tripped due to a large break LOCA.
- The crew has transitioned to EOP-1.3, “Transfer to Containment Sump Recirculation – Low head Injection.”
- When the Crew discovered that SI-850A and SI-850B would not open they transitioned to ECA-1.1, “Loss of Containment Sump Recirculation.”
- ECA-1.1 has been completed up through Step 21.
- The Unit 1 RO will respond to any alarms not associated with this task

INITIATING CUES (IF APPLICABLE):

- The OS directs you to delay depletion of the RWST by continuing with ECA-1.1, “Loss of Containment Sump Recirculation,” starting at Step 22.

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: ECA-1.1, Loss of Containment Sump Recirculation steps 22 -27 and Figure 1.

General References: ECA-1.1, Loss of Containment Sump Recirculation, Rev 32

Task Standards: Throttle SI pump flow to at least 225 gpm per ECA 1.1, Loss of Containment Sump Recirculation.

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 N

Check if SI should be terminated.

- Check Reactor Vessel Level from table below satisfied:

RCPS RUNNING	REQUIRED REACTOR VESSEL LEVEL
1	Wide Range > [100] 95 feet
0	Narrow Range > [30] 27 feet.

- Check RCS Subcooling based on CET > [130°F] 85 °F.

Standard: SI Termination conditions not met due to subcooling and RNO is referenced.

Evaluator Note: **This is a Continuous Action step.**

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

Performance Step: 2 Critical <u>N</u>	Establish minimum injection flow: 1) Determine minimum injection flow required for decay heat removal from Figure 1. 2) Try to establish minimum injection flow using charging flow, 1HC-142
Standard:	Determine based on plant conditions and elapsed time (cue) that 150 gpm is required per Figure 1 and establish total flow not less than 150 gpm.
Evaluator Note:	In addition to adjusting HC-142, examinee may adjust charging pump speed and/or start a third charging pump, but will recognize that 150 gpm cannot be established with charging alone.
Evaluator Cue:	Reactor trip was 30 minutes ago
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>Y</u>	If minimum injection flow can not be established using charging flow, then minimize charging flow and establish SI pump flow: <ul style="list-style-type: none">If SI pump suction is from RWST, then reduce SI flow to establish 225 gpm 1SI-866A for pump A or 1SI-866B for pump B
Standard:	Minimize charging Lower SI flow on the running SI pump using the associated SI-866 valve observing indication on the flow-meter until 225 gpm is established.
Evaluator Note:	SI flow of at least 225 gpm must be established for this step to be SAT
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 4
Critical Y

Stop SI and RHR pumps not required to maintain minimum required injection flow.

Go to Step 26.

Standard: Running RHR pump secured

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Performance Step: 5
Critical Y

Verify adequate injection flow:

- Check reactor vessel level indication:

RCPS RUNNING	REQUIRED REACTOR VESSEL LEVEL
1	Wide Range > [100] 95 feet
0	Narrow Range > [30] 27 feet.

- Core exit thermocouples stable or trending lower.

Standard: Adequate injection flow verified or adjusted as necessary to establish vessel level > 27 ft and temperature stable or lowering.

Evaluator Note: **Examiner can stop JPM any time after the examinee has adjusted SI Pump discharge flow to stabilize or restore CET's and Reactor Vessel level.**

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Terminating Cues: This JPM is complete

Stop Time: _____

Retention: Life of Plant
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Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the third RO
- Unit 1 has tripped due to a large break LOCA.
- The crew has transitioned to EOP-1.3, “Transfer to Containment Sump Recirculation”.
- The crew then transitioned to ECA-1.1, “Loss of Containment Sump Recirculation,” when it was discovered that SI-850A and SI-850B would not open.
- ECA-1.1 has been completed up to Step 21.
- The Unit 1 RO will respond to any alarms not associated with this task

INITIATING CUES (IF APPLICABLE):

- The OS directs you to delay depletion of the RWST by continuing with ECA-1.1, “Loss of Containment Sump Recirculation,” starting at Step 22.

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Job Performance Measure (JPM)

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- o Insert trigger 1 to Trip Unit 1 from full power, perform actions of EOP-0, transition to EOP-1.3, transition to ECA-1.1 and complete Steps 1-21 of ECA-1.1, then freeze simulation and snap IC.
- o After reaching step 21, to minimize core decay heat you can run the IC without taking procedure actions. This will inject RWST water to minimize core decay heat, from trip to snapping final IC could be 45 minutes. This will better model the time it would take a crew to get to the ECA. Make sure you do not cool down to the point where subcooling will not allow the RNO actions of an alternate path JPM.

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	VALUE
Trigger 1	MAL1RCS002D	Loop B Hot Leg LOCA	100
Preload	VLV1RHR014	SI-850A RHR Suction Valve	1- Fail Control Fuse
Preload	VLV1RHR015	SI-850B RHR Suction Valve	3- Close

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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: DRAIN THE ACCUMULATORS

JPM NUMBER: JPM P006.003COT REV. 5

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): P006.003.COT
DRAIN THE ACCUMULATORS

K/A NUMBERS: 006 A1.13 (3.5/3.7), 006 A4.02 (4.0/3.8)

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.

Job Performance Measure (JPM)

JPM Number: JPM P000.003COT

JPM Title: DRAIN THE ACCUMULATORS

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 and Unit 2 are at 100% steady-state conditions.
- 1T-34A, SI accumulator level is at 35%.
- Unit 1 RCDT level is 30%.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to drain 1T-34A, SI accumulator to 30% in accordance with OI 100, Adjusting SI accumulator Level and Pressure, Section 5.3.

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 100, Adjusting SI Accumulator Level And Pressure.
Calculator

General References: OI 100, Adjusting SI Accumulator Level And Pressure. Rev 32

Task Standards: The Examinee lowers 1(2) T-34A SI accumulator level to 30% ($\pm 2\%$) in accordance with OI 100, Adjusting SI Accumulator Level And Pressure.

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)	Perform Attachment A, “Accumulator Level/Pressure Change Data Sheet,” Section 1.0 and 2.0.
Standard:	The Examinee performs Attachment A, “Accumulator Level/Pressure Change Data Sheet,” Sections 1.0 and 2.0.
Evaluator Cue:	Daily Accumulator leak rate is <0.7%/day.
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> (SEQ-1)	Pump down the RCDT for affected Unit to 30% per OI-57, "Reactor Coolant Drain Tank Pump Priming and Operation": (Mark the one <u>NOT</u> used N/A.) <ul style="list-style-type: none">• Unit 1 RCDT• Unit 2 RCDT
Standard:	<ul style="list-style-type: none">• The Examinee marks Step 5.3.2 N/A and• Proceeds to Step 5.3.3.
Evaluator Note:	Unit 1(2) RCDT level at 30% is one of the Initial Conditions.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>N</u> (SEQ-1)	Establish communications with PAB Auxiliary Operator to monitor RCDT pressure and level during accumulator draining to RCDT.
Standard:	<ul style="list-style-type: none">• The Examinee establishes communications with the primary auxiliary building Auxiliary Operator and• Directs him/her to monitor RCDT pressure and level during accumulator draining to the RCDT.
Evaluator Cue:	<ul style="list-style-type: none">• You have established radio communications with the PAB Auxiliary Operator and• The PAB Auxiliary Operator acknowledges your request to monitor RCDT pressure and level during accumulator draining.• Current RCDT pressure value is 1.4 psig
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: 4 Critical <u>N</u> (SEQ-1)	Record RCDT initial level in Attachment A, "Accumulator Level/Pressure Change Data Sheet," Section 4.0
Standard:	The Examinee records RCDT initial level in Attachment A, "Accumulator Level/Pressure Change Data Sheet," Section 4.0.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>N</u> (SEQ-1)	Monitor all available channels for accumulator pressure and level during accumulator drain.
Standard:	Examinee may ask another operator to monitor front of the boards during draining.
Evaluator Cue:	If asked, another operator will monitor accumulator indications on the front of the boards.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>Y</u> (SEQ-2)	Open accumulator drain valve to drain the affected accumulator to desired level: (Mark the valve NOT used N/A.) (C01R) <ul style="list-style-type: none">• SI-844A, T-34A Accumulator Drain Valve• SI-844B, T-34A Accumulator Drain Valve
Standard:	<ul style="list-style-type: none">• The Examinee places the control switch for the accumulator drain valve, SI-844A to the Open position and• Marks SI-844 B, T-34B Accumulator Drain Valve N/A.
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: 7 Critical <u>Y</u> (SEQ-3)	Drain the SI accumulator to the desired level as indicated on one of the following indicators: (Mark the indicators <u>NOT</u> used N/A.) <ul style="list-style-type: none">• LI-939, T-34A Accumulator Level (C01R)• LI-938, T-34A Accumulator Level (C01)• LI-934, T-34B Accumulator Level (C01)• LI-935, T-34B Accumulator Level (C01R)
Standard:	The Examinee drains the SI accumulator to 30% ($\pm 2\%$) as indicated on chosen indicators. Indicators not used are marked N/A.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>Y</u> (SEQ-4)	<u>WHEN</u> the desired level in the accumulator is achieved, <u>THEN</u> shut the accumulator drain valve opened in Step 5.3.5: (Mark the valve <u>NOT</u> used N/A) (C01R) <ul style="list-style-type: none">• SI-844A, T-34A Accumulator Drain Valve• SI-844B, T-34B Accumulator Drain Valve
Standard:	<ul style="list-style-type: none">• The Examinee places the control switch for the accumulator drain valve, SI-844A to the Close position and• Marks SI-844B, T-34 accumulator drain valve N/A.
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> (SEQ-5)	Perform Attachment A, "Accumulator Level/Pressure Change Data Sheet," Sections 4.0, 5.0 and 7.0.
Standard:	The Examinee performs Attachment A, "Accumulator Level/Pressure Change Data Sheet," Sections 4.0, 5.0 and 7.0.
Evaluator Cue:	<ul style="list-style-type: none">• When asked, final RCDT level is 39%.• When asked, log entry has been made.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>N</u> (SEQ-5)	Ensure accumulator pressure is between 720 and 760 psig as indicated on one of the following indicators: (Mark the indicators <u>NOT</u> used N/A). <ul style="list-style-type: none">• PI-941, T-34A Accumulator Pressure (C01R)• PI-940, T-34A Accumulator Pressure (C01)• PI-936, T-34B Accumulator Pressure (C01)• PI-937, T-34B Accumulator Pressure (C01R)
Standard:	The Examinee ensures accumulator pressure is between 720 and 760 psig as indicated on one of the following indicators: <ul style="list-style-type: none">• PI-941, T-34A accumulator pressure (C01R)• PI-940, T-34A, accumulator pressure (C01) And marks the following indicators N/A: <ul style="list-style-type: none">• PI-936, T-34B accumulator pressure (C01)• PI-937, T-34B accumulator pressure (C01R)
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>N</u> (SEQ-5)	Inform the OS that T-34A, SI accumulator has been drained to 30% in accordance with OI 100, "Adjusting SI Accumulator Level And Pressure", Section 5.3.
Standard:	The Examinee informs the OS that T34A, SI accumulator has been drained to 30% in accordance with OI 100, Adjusting SI Accumulator Level And Pressure, Section 5.3.
Evaluator Cue:	The OS acknowledges your report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: This 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.

Job Performance Measure (JPM)

SIMULATOR SET UP: (Modify table as necessary)

Simulator Setup Instructions:

Initial Setup:

- Load an IC where conditions support Unit 1 and Unit 2 100% steady-state conditions
- Load the preload to set 1T-34A accumulator level to 35%.
- Start the simulation and let the preload take effect.
- Freeze the simulator.
- Walk down the control boards to ensure plant conditions accurately reflect the JPM’s initial conditions.
- Make any necessary adjustments or corrections.
- Update documentation if required.
- Save to an IC for multiple use.

Multiple Use:

- Load the saved IC for this JPM.
- Walk down the control boards to ensure plant conditions accurately reflect the JPM’s initial conditions.
- Make any necessary adjustments or corrections.
- Update documentation if required.
- Resave if required.

SIMULATOR INFORMATION:

Initiation Cue	Action or Component Description	Action Tagname	Malfunction Value	Ramp Time	Delay Time	Trigger		Verification Performed	
								Ready	Inserted
Preload	1T34A Accumulator Level set to 35%	Phd Expert Command: Set asi1t34a=701 50 (Unit 1)							

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:

- Unit 1 and Unit 2 are at 100% steady-state conditions.
- 1T-34A, SI accumulator level is at 35%.
- Unit 1 RCDT level is 30%.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to drain 1T-34A, SI accumulator to 30% in accordance with OI 100, “Adjusting SI accumulator Level And Pressure”, Section 5.3.

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: Synchronize Turbine Generator Output With Grid At Minimum Load

JPM NUMBER: PBN JPM P045.005COT REV. 5

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P045.005.COT / Synchronize Turbine Generator Output With Grid At Minimum Load

K/A NUMBERS: 062 A4.01 (3.3/3.1) 062 A4.03(2.8/2.9) 062 A4.07 (3.1/3.1)

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	
	(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 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 at low power with OP-1C, "Startup to Power Operation Unit 1" complete through Step 5.81. The secondary is started up and the turbine generator is ready to be placed on the grid.
- Unit 1 TH Auxiliary Operator is standing by at 1E02 Voltage Regulator Cabinet.
- You are the 3rd license

INITIATING CUES (IF APPLICABLE):

- OS1 directs you to place the turbine generator on the grid per OP-1C, "Startup to Power Operation Unit 1", starting at Step 5.82.

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: OP-1C, "Startup to Power Operation Unit 1"
Synchroscope Switch
Filled out OP-1C up to step for synchronizing to grid.
General References: OP-1C, "Startup to Power Operation Unit 1" Rev 16
Task Standards: Main Generator in parallel with the grid at minimum load.

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	Ensure Generator Voltage Regulator Control Switch is in the MANUAL position
Critical <u>N</u>	
Standard:	Generator Voltage Regulator Control Switch is in the MANUAL position
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>	Ensure turbine speed between 1750 and 1800 rpm.
Standard:	Turbine speed checked.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step:3 Critical <u>Y</u>	CLOSE Unit 1 Generator Exciter Field Breaker.
Standard:	Unit 1 generator Exciter Field Breaker closed.
Evaluator Note:	The following alarms may occur when closing the field breaker: <ul style="list-style-type: none">• C01 A 3-2 Unit 1 Generator Reg/Metering Voltage Failure• C01 A 4-4 Unit 1 Voltage Regulator Trouble
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 4 Critical <u>N</u>	Reset Unit 1 voltage regulator panel alarms at 1E02.
Standard:	Voltage regulator alarms reset.
Evaluator Note:	Insert trigger 1 to clear alarms at the Voltage Regulator Panel
Evaluator Cue:	Unit 1 Turbine Hall AO reports that he has reset panel 1E02 and all alarms are clear.
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>	Slowly adjust the Generator Voltage Regulator DC Adjuster to obtain a Generator Voltmeter indication of approximately 19kV at 1800 rpm.
Standard:	Generator voltage raised to approximately 19 kV.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 6. Critical <u>N</u>	Check all three phases approximately 19 kV, using Unit <u>1</u> Generator Voltmeter switch.
Standard:	Phase voltages verified at approximately 19 kV.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 7. Critical <u>N</u>	For Automatic Voltage Regulation: <ul style="list-style-type: none">• Place Unit 1 Generator Voltage Regulator to TEST,<ul style="list-style-type: none">○ CHECK yellow light is LIT.• Ensure Generator Voltage Regulator Balance Meter is at approximately zero using Generator Voltage Regulator AC Adjuster.• Place Generator Voltage Regulator to AUTO<ul style="list-style-type: none">○ CHECK red light is LIT
Standard:	Automatic Voltage Regulation is set up.
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>	Place the Unit 1 Generator Breaker 122 -Synchroscope switch to ON.
Standard:	Unit 1 Generator Breaker Synchroscope to on.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 9 Critical <u>Y</u>	Adjust Incoming Voltmeter reading to match Running Voltmeter reading, using Generator Voltage Regulator AC Adjuster.
Standard:	Incoming and running voltages matched.
Evaluator Note:	Incoming voltmeter reading is generator voltage. Running voltmeter reading represents line voltage.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 10 Critical <u>N</u>	Check Unit 1 Generator Exciter Field Ammeter at less than 23 amps.
Standard:	Exciter Field current verified.
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: <u>11.</u>	Adjust turbine speed (using Reference Control raise and lower pushbuttons) as necessary to rotate the synchroscope 2 to 5 rpm in the "FAST" direction.
Critical <u>Y</u>	
Standard:	Synchroscope rotating slowly in "FAST" direction.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: <u>12.</u>	Ensure 1F52-122 -is removed from PULLOUT
Critical <u>N</u>	
Standard:	1F52-122 out of PULLOUT
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: <u>13.</u>	<u>WHEN</u> the synchroscope is just before 12:00 <u>AND</u> within the Green Band,
Critical <u>Y</u>	<u>THEN</u> Close 1F52-122, Unit 1 Generator Main Breaker.
Standard:	Unit 1 Generator Main Breaker closed.
Evaluator Note:	If Generator is allowed to motor, a Generator Trip and Lockout will occur in 45 seconds after receipt of "reverse power" alarm.
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>N</u>	Check the following: <ul style="list-style-type: none">• 20-30 MWe Unit 1 Generator Wattmeter.• Unit 1 Generator Varmeter indicates a positive number (MVARs OUT).• "LOAD CONTROL" status light is LIT.
Standard:	Status of generator load verified.
Evaluator Note:	Operation of generator in VARS IN is prohibited due to risk of overheating generator bore ring
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: <u>15</u> Critical <u>N</u>	Place the Unit 1 Generator Breaker 122 Synchroscope switch to OFF.
Standard:	Synchroscope OFF.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: <u>16</u> Critical <u>N</u>	Make notification that the unit is online intent to raise power per NP_2.1.5
Standard:	Notification made to Shift Manager
Evaluator Cue:	SM will notify power systems <u>supervisor</u>.
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)

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- o Create IC with Turbine up to speed and ready for synchronization to the grid.
- o

SIMULATOR MALFUNCTIONS:

Trigger	MALFUNCTION	Description	DELAY	RAMP	Value
1	LOAGEN001	VRC Local panel alarm reset			On

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:

- Unit 1 is at low power with OP-1C, "Startup to Power Operation Unit 1" complete through Step 5.81. The secondary is started up and the turbine generator is ready to be placed on the grid.
- Unit 1 TH Auxiliary Operator is standing by at 1E02 Voltage Regulator Cabinet.
- You are the 3rd license

INITIATING CUES (IF APPLICABLE):

- OS1 directs you to place the turbine generator on the grid per OP-1C, "Startup to Power Operation Unit 1", starting at Step 5.82.

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: Respond to a RCP Malfunction

JPM NUMBER: JPM PBN P000.031b.COT REV. 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P000.031.COT / Respond to a RCP Malfunction

K/A NUMBERS: 015/017 AK3.03 (3.7/4.0)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:
Simulator: Other:
Lab:

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path: YES

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

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

Retention: Life of Plant

Retain in: Training Record

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

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

JPM Number: JPM PBN P000.031b.COT

JPM Title: Respond to a RCP Malfunction

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

Referenced Procedure: AOP 1B, Reactor Coolant Pump Malfunction

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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

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 C04 Operator
- Unit 1 has experienced high vibration on 1P-1A, 'A' Reactor Coolant Pump.
- AOP-1B is in progress, currently performing step 18. Step 18 a. and b. have been completed. Unit 1 is tripped and immediate actions of EOP-0 have been completed.

INITIATING CUES (IF APPLICABLE):

- OSI has directed you to perform the remainder of AOP-1B, Step 18, beginning with sub step c.

Retention: Life of Plant
Retain in: Training Record

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

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

JPM PERFORMANCE INFORMATION

Required Materials: **AOP-1B, Reactor Coolant Pump Malfunction, Unit 1**

General References: **AOP-1B, Reactor Coolant Pump Malfunction, Unit 1**

Task Standards: **The Examinee takes appropriate action to secure 'A' RCP IAW AOP-1B, Reactor Coolant Pump Malfunction**

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 Y	18. Secure Affected RCP: c. Trip affected RCP
Standard:	Examinee Trips 'A' RCP
Evaluator Cue:	'A' RCP green light on, red light off (as indicated on simulator)
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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

Performance Step: 2 Critical N	d. Check at least one RCP running
Standard:	Examinee checks 'B' RCP running.
Evaluator Cue:	'B' RCP red light on, green light off. Flow indicated in 'B' RCS loop (as indicated on simulator)
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: 3 Critical N	e. Shut associated PZR normal spray valve o IRC-431A for RCP A
Standard:	Examinee recognizes 'A' spray valve is not shut and attempts to manually close the valve. Examinee enters RNO column for sub step e due to spray valve stuck open.
Evaluator Note:	'A' Spray Valve controller is failed and spray valve is stuck open. Examinee will need to shut 'A' Spray valve using override switch.
Evaluator Cue:	'A' Spray valve red and green lights are both lit, Controller for 'A' spray valve indicates 10% output and manual control unsuccessful (as indicated on simulator)
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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

Performance Step: 4 Critical Y	e. RNO	<u>IF</u> spray valve can <u>NOT</u> be shut, <u>THEN</u> place manual override switch for affected spray valve to close. ○ 1RC-431A-S for 1RC-431A
Standard:	Examinee places 1RC-431A-S to close	
Evaluator Cue:	'A' Spray valve green light on, red light off (as indicated on simulator).	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Performance Step: 5 Critical N	f. Check Affected RCP has been tripped for 3 minutes.	
Standard:	<u>IF</u> 3 minutes have not elapsed, <u>THEN</u> the trainee proceeds to step 18 f. RNO. <u>IF</u> 3 minutes have elapsed, <u>THEN</u> the trainee proceeds to step 18. g.	
Evaluator Note:	Examinee should note time and navigate through the procedure correctly, i.e., less than 3 minutes proceed to 18 f. RNO, greater than 3 minutes proceed to step 18. g. Do NOT report time to examinee.	
Evaluator Cue:	3 minutes has not elapsed (as indicated on simulator clock)	
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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

Performance Step: 6 Critical N	f. RNO <u>WHEN</u> affected RCP has been tripped for 3 minutes, <u>THEN</u> do Steps 18.g through 18.h.
Standard:	Examinee ensures 3 minutes has elapsed and continues to Step 18.g.
Evaluator Note:	Examinee should note time and ensure that 3 minutes has elapsed prior to continuing. Do NOT report time to examinee.
Evaluator Cue:	3 minutes has elapsed (as indicated on simulator clock)
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: 7 Critical Y	g. Shut affected RCP No. 1 seal water return MOV o 1CV-270A for A RCP
Standard:	Examinee shuts 1CV-270A
Evaluator Cue:	1CV-270A green light on, red light off.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: 8 Critical N	h. Check RCP seal water bypass control valve shut • 1CV-386
Standard:	Examinee checks 1CV-386 shut
Evaluator Cue:	1CV-386 green light on, red light off (as indicated on simulator).
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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

Terminating Cues: 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.

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1

Historical Record:

Rev. 1 Reformatted to current revision of QF-1075-01. Revised to Rev. 20 of AOP 1B Unit 1, Reactor Coolant Pump Malfunction.

Retention: Life of Plant
Retain in: Training Record

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

JPM PBN P000.031b.COT, Respond to a RCP Malfunction, Rev. 1**JPM SETUP INFORMATION****Simulator Setup Instructions:**

- Load IC-2 or other full power IC
- Insert RCP malfunctions as listed
- Trip Reactor
- Verify immediate actions of EOP-0 are met and insert IHC-431K malfunction.
- Freeze simulator and snap for reuse

Simulator Malfunctions

Order	Type	Code	Severity/ Value	Event trigger	Timing	Description
Preload	1YVPNAFH RCP A Frame Horiz Vibration Fixed Output	XMT1RCP011A	4	NA		'A' RCP Frame Horiz Vibes
Preload	1YVPNAFV RCP A Frame Vert Vibration Fixed Output	XMT1RCP012A	3	NA		'A' RCP Frame Vert Vibes
Preload	1YVPNASH RCP A Shaft Horiz Vibration Fixed Output	XMT1RCP013A	17	NA		'A' RCP Shaft Horiz Vibes
Preload	1YVPNASV RCP A Shaft Vert Vibration Fixed Output	XMT1RCP014A	20	NA		'A' RCP Shaft Vert Vibes

Simulator Overrides

Order	Type	Code	Value	Trigger	Timing	Description
Preload	1PCV-431A Spray Valve Hand Controller Fixed Output	CNH1PCS007B	10	1	NA	'A' Spray controller fails to 10% open, Insert post trip

NOTE: During Administration of JPM, delete Vibration Malfunctions shortly after RCP is tripped.

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 C04 Operator
- Unit 1 has experienced high vibration on 1P-1A, 'A' Reactor Coolant Pump.
- AOP-1B is in progress, currently performing step 18. Step 18 a. and b. have been completed. Unit 1 is tripped and immediate actions of EOP-0 have been completed.

INITIATING CUES (IF APPLICABLE):

- OSI has directed you to perform the remainder of AOP-1B, Step 18, beginning with substep 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 type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<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 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 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<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: **Nitrogen Purge the PRT**

JPM NUMBER: **PBN JPM P007.007 COT REV. 0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): **PBN JPM P007.007 COT Nitrogen Purge the PRT**

K/A NUMBERS: 007 A1.01 (2.9/3.1) 007 A1.02 (2.7/2.9) 007 A4.04 (2.6/2.6)

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 JPM P007.007 COT

JPM Title: Nitrogen Purge the PRT

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 preparing for a refueling shutdown.
- The unit is in Mode 5 with RCPs secured.
- Temperature is 177°F and stable.
- You are the third license.
- Containment Closure Checklist, CL-1E is maintaining the status of containment isolation valves.

INITIATING CUES (IF APPLICABLE):

- The OS has directed you to Purge Pressurizer Relief Tank per OP 4C, "Pressurizer Relief Tank Operation Unit 1" section 5.1.

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: OP 4C Pressurizer Relief Tank Operation Unit 1
General References: OP 4C Pressurizer Relief Tank Operation Unit 1, Rev 0
Task Standards: PRT purges PRT IAW OP 4C Pressurizer Relief Tank Operation Unit 1

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>	Notify the PAB AO that during PRT purging, a Waste Gas Compressor may be required to be in operation.
Standard:	Contact PAB AO and notify that a Waste Gas compressor may be required.
Evaluator Cue:	The PAB AO is standing by to operate a Waste Gas compressor.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2 Critical <u>Y</u>	Ensure 1RC-527, T-2 PRT Vent Isolation, is OPEN.
Standard:	Take 1RC-527, T-2 PRT Vent Isolation switch to OPEN
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>	Raise PRT level to top of indicating band (~95%), as follows: - Start RMW Pump selected for the service header.
Standard:	Take P-23B Reactor Water pump switch (C01R) to ON and verify red light is lit.
Evaluator Note:	Step 5.1.6 may be performed at this time to align nitrogen to the PRT
Evaluator Cue:	If Shift Supervision is asked, no Level 2 Dedicated is needed. If asked, the PAB Auxiliary operator has opened RC-595 and adjusted the nitrogen regulator to 3 psig.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>Y</u>	Locally OPEN 1RC-508A, U1C (U2C) Reactor Makeup Water Isolation.
Standard:	Direct PAB AO to open 1RC-508A, U1C (U2C) Reactor Makeup Water Isolation
Evaluator Note:	This valve is not modeled on the simulator so we are using 0-BS-1280B instead. Insert trigger 3 when examinee requests the PAB AO to open 1RC-508A.
Evaluator Cue:	Acknowledge request and report the PAB AO has opened 1RC-508A, Reactor Makeup Water Isolation
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>	OPEN 1RC-557, RMW to T-2 PRT Spray Nozzles Inlet.
Standard:	Take 1RC-557 switch to OPEN, verify red light lit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>Y</u>	OPEN 1RC-508, U1C Reactor Makeup Water Supply.
Standard:	Take 1RC-508 switch to OPEN, verify red light lit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	While filling the PRT, cycle 1RC-508 as required to maintain the PRT pressure less than 7 psig.
Standard:	Monitor PRT pressure and cycle 1RC-508 if necessary to keep pressure < 7 psig
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>	WHEN PRT level is approximately 95%, THEN SHUT 1RC-557, RMW To T-2 PRT Spray Nozzles Inlet.
Standard:	Monitor PRT level and when $95 \pm 2\%$, take 1RC-557 switch to shut
Evaluator Note:	Shutting 1RC-557 is only critical if 1RC-508, U1C Reactor Makeup Water Supply is not shut later. Sign step for Initial Verification (IV) complete for procedure use and adherence rules of usage.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 9 Critical <u>N</u>	IF desired, THEN stop RMW Pump selected for the service header.
Standard:	Take P-23B Reactor Makeup Water pump switch (C01R) to OFF or PULLOUT
Evaluator Note:	If asked, shift supervision requests that the pump be secured
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>Y</u>	SHUT 1RC-508, U1C Reactor Makeup Water Supply.
Standard:	Take 1RC-508 switch to SHUT, verify indications
Evaluator Note:	This step is only critical if 1RC-557, RMW to T-2 PRT Spray Nozzles Inlet was not shut previously.
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>N</u>	Locally SHUT 1RC-508A, U1C Reactor Makeup Water Isolation.
Standard:	Contact PAB AO to shut 1RC-508A, U1C Reactor Makeup Water Isolation.
Evaluator Note:	This valve is not modeled on the simulator Sign step for Initial Verification (IV) complete for procedure use and adherence rules of usage.
Evaluator Cue:	Acknowledge request and report the PAB AO has shut 1RC-508A, Reactor Makeup Water Isolation.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12 Critical <u>Y</u>	<u>WHEN</u> PRT pressure is approximately equal to vent header pressure, <u>THEN</u> SHUT 1RC-527, T-2 PRT Vent Isolation.
Standard:	Contact AO to determine vent header pressure. Take 1RC-527, T-2 PRT Vent Isolation switch to SHUT
Evaluator Note:	Critical portion of step is to shut 1RC-527. Sign step for Initial Verification (IV) complete for procedure use and adherence rules of usage.
Evaluator Cue:	When asked, the PAB reports a pressure value equal to current PRT pressure.
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.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- o Establish initial conditions to meet procedural conditions required for PRT purge. On RHR, below 200F with RCPS secured.
- o Use 0-BS-1280B Services Isolation in place of 1RC-508A in order to meet critical tasks.

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
Trigger 1	LOA1PRT001	PRT nitrogen pressure regulator	As requested (should be 3 psig)	
Trigger 1	LOA1RMW001	Services Header Isolation	1	

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:

- Unit 1 is preparing for a refueling shutdown.
- The unit is in Mode 5 with RCPs secured.
- Temperature is 177°F and stable.
- You are the third license.
- Containment Closure Checklist, CL-1E is maintaining the status of containment isolation valves.

INITIATING CUES (IF APPLICABLE):

- The OS has directed you to Purge Pressurizer Relief Tank per OP 4C, “Pressurizer Relief Tank Operation Unit 1” section 5.1.

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: Secure from Main Transformer Backfeed

JPM NUMBER: PBN JPM P062.025.COT REV. 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P062.025.COT Perform Main Transformer Backfeed

K/A NUMBERS: 062 A4.01 (3.3/3.1) 062 A4.07 (3.1/3.1)

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 P062.025.COT

JPM Title: Secure from Main Transformer Backfeed

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 5.
- 1X-04 Low Voltage Station Transformer has been restored after maintenance.
- Unit 1 is on backfeed per 1-SOP-19KV-001, "1X-01 Main Power Transformer Backfeed."
- 1A01 and 1A02 4160 Non-Safeguards Busses will remain energized per Shift Manager.
- You are the 4th RO.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to secure from backfeed and realign busses 1A01 and 1A02 4160 Non-Safeguards Busses to 1X-04 Low Voltage Station Transformer per 1-SOP-19KV-001, "1X-01 Main Power Transformer Backfeed" beginning at step 5.3.5.

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: • 1-SOP-19KV-001 1X-01 MAIN POWER TRANSFORMER BACKFEED OPERATION steps 5.3.5 through 5.3.9 with steps 5.3.6 and 5.3.8 N/A'd.

General References: • Synchroscope switch
1-SOP-19KV-001 1X-01 MAIN POWER TRANSFORMER BACKFEED OPERATION Rev 4

Task Standards: Realign busses 1A01 and 1A02 to X-04 per 1-SOP-19KV-001 1X-01 Main Power Transformer Backfeed

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.

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: 1 Critical <u>N</u>	IF transferring 1A-01 power alignment from 1X-02 to 1A-03, THEN perform the following: - Place 1A-03 To 1A-01 Bus Tie Synchroscope switch to ON.
Standard:	1A-03 To 1A-01 Bus Tie Synchroscope switch to ON.
Evaluator Note:	NOTE: Total time 1A-01 and 1A-03 are paralleled should be minimized, due to potential for 345KV breaker fault that could cause transformer/bus overload.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2 Critical <u>N</u>	Ensure two supplies are in sync.
Standard:	Check synchroscope indication is stationary at the 12 o'clock position
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>Y</u>	CLOSE 1A52-37, 1A-03 To 1A-01 Bus Tie Breaker.
Standard:	Close breaker 1A52-37
Evaluator Note:	Annunciator C02 E 4-7, TRANSFORMERS PARALLELED will alarm.
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: 4 Critical <u>N</u>	Place 1A-03 To 1A-01 Bus Tie Synchroscope switch to OFF.
Standard:	1A-03 To 1A-01 Bus Tie Synchroscope switch to OFF.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>Y</u>	OPEN 1A52-01, Bus 1A-01 Normal Feed breaker AND place control switch in PULLOUT.
Standard:	Breaker 1A52-01 open with control switch in PULLOUT.
Evaluator Note:	<ul style="list-style-type: none">• Annunciator C02 E 4-7, TRANSFORMERS PARALLELED will clear.• Critical portion of step is to open the breaker.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>	IF 1A-01 will be de-energized, THEN perform the following:
Standard:	None
Evaluator Note:	Step was previously N/A'd by Shift Management.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Job Performance Measure (JPM)

Performance Step: 7 Critical <u>N</u>	IF transferring 1A-02 power alignment from 1X-02 to 1A-04, THEN perform the following: - Place 1A-04 To 1A-02 Bus Tie Synchroscope switch to ON.
Standard:	1A-04 To 1A-02 Bus Tie Synchroscope switch to ON.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>N</u>	Ensure two supplies are in sync.
Standard:	Check synchroscope scope indication is stationary at the 12 o'clock position.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 9 Critical <u>Y</u>	CLOSE 1A52-55, 1A-04 To 1A-02 Bus Tie Breaker.
Standard:	Close breaker 1A52-55.
Evaluator Note:	NOTE: Annunciator C02 E 4-7, TRANSFORMERS PARALLELED will alarm.
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: 10 Critical <u>N</u>	Place 1A-04 To 1A-02 Bus Tie Synchroscope switch to OFF.
Standard:	1A-04 To 1A-02 Bus Tie Synchroscope switch to OFF.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11 Critical <u>Y</u>	OPEN 1A52-17, Bus 1A-02 Normal Feed breaker AND place control switch in PULLOUT.
Standard:	Breaker 1A52-17 open with control switch in PULLOUT.
Evaluator Note:	<ul style="list-style-type: none">• Annunciator C02 E 4-7, TRANSFORMERS PARALLELED will clear.• Critical portion of the step is to open the breaker.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12 Critical <u>N</u>	IF 1A-02 will be de-energized, THEN perform the following:
Standard:	None
Evaluator Note:	Step was previously N/A'd by Shift Management.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Job Performance Measure (JPM)

Performance Step: 13 Critical <u>Y</u>	OPEN 1F52-122, Unit 1 Generator Main Breaker.
Standard:	Open breaker 1F52-122, Unit 1 Generator Main Breaker
Evaluator Note:	This step will clear annunciator C02 F 1-3 if alarming due to isophase ground. (Power to alarm relay is derived from 19KV PT circuits)
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)

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Mode 5.
- 1X-04 Low Voltage Station Transformer has been restored after maintenance.
- Unit 1 is on backfeed per 1-SOP-19KV-001, "1X-01 Main Power Transformer Backfeed."
- 1A01 and 1A02 4160 Non-Safeguards Busses will remain energized per Shift Manager.
- You are the 4th RO.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to secure from backfeed and realign busses 1A01 and 1A02 4160 Non-Safeguards Busses to 1X-04 Low Voltage Station Transformer per 1-SOP-19KV-001, "1X-01 Main Power Transformer Backfeed" beginning at step 5.3.5.

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 SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- Set initial conditions to meet procedural conditions required for transformer backfeed. On RHR, below 200F with RCPS secured.
- Establish transformer backfeed per 1-SOP-19KV-001 1X-01 Main Power Transformer Backfeed per section 5.2
- Alarm window C02 F 1-3 is a SPARE. This window needs to be covered or replaced with a tile reading “Unit 1 19KV ISOPHASE BUS GROUND” for a step in the procedure/JPM.

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	VALUE	RAMP
Preload	LOA1GEN003	Main Generator 90 flex connection removed	Removed	

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)
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SITE: PBNP

JPM TITLE: ADJUST NUCLEAR INSTRUMENTS

JPM NUMBER: JPM P015.011aCOT **REV.** 3

RELATED PRA INFORMATION:

TASK NUMBER(S) / TASK TITLE(S): P015.011.COT / ADJUST NUCLEAR INSTRUMENTS

K/A NUMBERS: 015 A1.01 (3.5/3.8)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:
 Simulator: Other:
 Lab:

Time for Completion: 25 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: SRO/RO

Additional signatures may be added as needed.

Developed by:	Charles Storm Instructor	8/02/04 Date
Validated by:	Sky Bryant Validation Instructor (See JPM Validation Checklist, Attachment 1)	8/06/04 Date
Approved by:	_____ Training Supervisor	_____ Date

JPM BRIEFING/TURNOVER

THIS SECTION IS READ ONCE FOR THE ENTIRE PACKAGE OF JPMS. IT IS NOT REQUIRED TO REVIEW THIS SECTION FOR EVERY JPM BEING PERFORMED IN THE PACKAGE. THE INITIAL CONDITIONS AND INITIATING CUE(S)/TASKS TO BE PERFORMED SHOULD BE READ AND THEN PROVIDED TO THE EXAMINEE.

After I read you the initial conditions and initiating cue(s)/task to be performed for this JPM and provide you a copy of the same, you may review and begin. Once you have completed the task, indicate completion by handing back this form to the evaluator unless otherwise told.

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.

For all two and three-way communications, make your report to me, the JPM evaluator. I will reply to your reports with the statement, "acknowledge." All actions in the plant are to be simulated and all actions in the simulator will be performed. Ensure you make it clear to me, the evaluator, of all actions you are taking so that credit may be given for completing each step of the task.

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 Unit 1 Control Operator
- 0-TS-RE-001, "Power Level Determination", Section 5.2 was previously performed. RTOP 15 was not within .75% of NIS power range indication on NI Channel 41.
- This requires 0-TS-RE-002, "Power Range Detector Power Level Adjustment" to be performed.

INITIATING CUES (IF APPLICABLE):

- The SM/DOS directs you to perform Attachment A of 0-TS-RE-002, "Power Range Detector Power Level Adjustment" for power range detector N-41. All prerequisites and initial conditions have been satisfied.

JPM PERFORMANCE INFORMATION

Required Materials: 0-TS-RE-002, Rev. 4, "Power Range Detector Power Level Adjustment" with all channels except N41 NA'd
Completed 0-TS-RE-001

General References: Most current copy of U1 ROD 14 from control room
0-TS-RE-001, Rev. 11, "Power Level Determination"
0-TS-RE-002, Rev. 4, "Power Range Detector Power Level Adjustment"
ROD 14

Task Standards: Properly adjust indicated power range Drawer A for NI Channel 41 within .75% of calculated reactor power.

SIMULATOR INFORMATION:

INITIALIZE simulator and LOAD IC-22.

Perform 0-TS-RE-001

Adjust NI Channel 41 to read $\geq 1\%$ below power figured in Step 5.3.3 of 0-TS-RE-001 without bringing in the power deviation annunciator. RTOP15 should be as close to 100% as possible with steady state conditions.

ENSURE only 1 NI Channel is out of tolerance and Tavg and RTO set up on Digital Displays.

Action or Component Description	Action Tagname	Value	Performed/ Verified
N/A	N/A	N/A	N/A

Start Time: _____

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

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

Performance Step: 1 Critical <u>N</u>(SEQ-1)	Record reactor thermal output determined from 0-TS-RE-001, "Power Level Determination".
Standard:	Ask for 0-TS-RE-001 to obtain reactor thermal output value. Put value in Step 1.0 of Attachment A.
Evaluator Note:	A copy of 0-TS-RE-001 is available in the simulator and will be provided.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: 2 Critical <u>Y</u>(SEQ-2)	Ensure control rod bank selector switch on 1C04 in manual.
Standard:	Rod bank selector switch taken from auto to manual on 1C04. Initial Step 2.0 on Attachment A.
Evaluator Note:	
Evaluator Cue:	Rod bank selector in manual (or as indicated on simulator).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>N</u>(SEQ-3)	Record the as found power range Drawer A indication.
Standard:	Locate and obtain power range Drawer A value for Channel N41 and record on Attachment A, Step 3.0.
Evaluator Note:	Other channels not requiring adjustment should be marked N/A. The intent of this JPM is not to perform adjustment on more than one channel, however good operational practice may lead to the examinee attempting to adjust all channels whether they require adjustment or not. The examinee may need to be cued to stop after completing adjustment on one channel.
Evaluator Cue:	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>N</u>(SEQ-4)	Unlock the Gain potentiometer on power range Drawer B.
Standard:	Locate Gain potentiometer on power range Drawer B (for N41) and rotate black knob to the left to unlock and initial Step 4.0 of Attachment A.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>Y</u>(SEQ-5)	Adjust the indicated power for N41, on power range Drawer A as close as possible to the reactor thermal output recorded in Step 1.0, using the Gain potentiometer.
Standard:	Locate Gain potentiometer on power range Drawer A and adjust within .75% of calculated reactor power for Channel N41 and initial Step 5.0 of Attachment A.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>(SEQ-6)	Lock the Gain potentiometer on power range Drawer B.
Standard:	Locate and lock by turning black knob to the right on the Gain potentiometer for N41 on power range Drawer B. Initial completion in Step 6.0 of Attachment A.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>(SEQ-7)	Record the as left power range Drawer A indication.
Standard:	Examinee records power level in Step 7.0 of Attachment A.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical <u>N</u>(SEQ-8)	Ensure 1C04 alarms are clear.
Standard:	Examinee checks that annunciators 1C04-1A 3-3, 3-5, 4-2, 4-3 and 4-5 are clear and initials Step 8.0 and 9.0 of Attachment A.
Evaluator Note:	<i>Examinee may also note the rod drop alarm is not lit on NI cabinet.</i>
Evaluator Cue:	1C04-1A alarms as above are clear (or as indicated on simulator).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 9 Critical <u>Y</u>(SEQ-9)	Place control rod bank selector switch on 1C-04 to automatic if desired.
Standard:	Rod bank selector switch on 1C-04 returned to automatic from manual and Step 10.0 of Attachment A initialed.
Evaluator Note:	
Evaluator Cue:	If asked, it is desired to place the rod bank selector switch to automatic.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>N</u>(SEQ-10)	Record the Gain potentiometer setting for each power range channel on the logsheet in the Reactor Operating Data Book, Rod 14.
Standard:	Gain potentiometer setting for each power range channel recorded in Reactor Operating Data Book, ROD 14 to within ± 5 of actual setting.
Evaluator Note:	Examinee locates Rod 14 and then examiner provides a copy of Rod 14 for the examinee to record Gain potentiometer settings for each channel.
Evaluator Cue:	Examiner provides a copy of Rod 14 after examinee locates Rod 14 in its proper location.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: THIS COMPLETES THIS JPM.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- You are Unit 1 Control Operator
- 0-TS-RE-001, "Power Level Determination", Section 5.2 was previously performed. RTOP 15 was not within .75% of NIS power range indication on NI Channel 41.
- This requires 0-TS-RE-002, "Power Range Detector Power Level Adjustment" to be performed.

INITIATING CUES (IF APPLICABLE):

- The SM/DOS directs you to perform Attachment A of 0-TS-RE-002, "Power Range Detector Power Level Adjustment" for power range detector N-41. All prerequisites and initial conditions have been satisfied.

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 signature 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does 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. Has the completion time been established based on validation data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>