

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station**JPM TITLE:** Perform the Actions Prior to Initiating a Containment Purge**JPM NUMBER:** RO-018-JP03A **REV.** A**RELATED PRA INFORMATION:** N/A**TASK NUMBER(S) / TASK TITLE(S):** 0180030101/ Perform a Containment Purge Using the 36" RBV Valves**K/A NUMBERS:** 2.3.9 RO value 2.5 / SRO value 3.4**APPLICABLE METHOD OF TESTING:**Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐Simulator: ☒ Other: ☐Lab: ☐Time for Completion: 18 Minutes Time Critical: NoAlternate Path / Faulted: No**TASK APPLICABILITY:** RO

Additional signatures may be added as needed.

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

RO-018-JP03A, Perform the Actions Prior to Initiating a Containment Purge, Rev. A

JPM Number: RO-018-JP03A

JPM Title: Perform the Actions Prior to Initiating a Containment Purge

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

RO-018-JP03A, Perform the Actions Prior to Initiating a Containment Purge, Rev. A

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

You are the Reactor Operator.

The plant is in INTERMEDIATE SHUTDOWN.

HP has delivered a Containment Purge Discharge Permit to the Control Room.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to prepare for a Containment Purge by performing the steps 4.1.2.b through 4.1.2.f of N-RBV-18B, Reactor Bldg Vent System Cold Operation and Making Releases and complete the PRIOR TO DISCHARGE section of the Containment Purge Discharge Permit for the Shift Manager authorization to start.

RO-018-JP03A, Perform the Actions Prior to Initiating a Containment Purge, Rev. A

JPM PERFORMANCE INFORMATION

Required Materials: N-RBV-18B, Rev. AA (with step 4.1.2.a marked as performed)
SP-32B-116, Rev. X, Attachment D with Top section completed.
N-RM-45, Rev. AQ

General References: None

Task Standards: Attachment D SP-32B-116, 2nd section complete through “Authorization to Start (Shift Mgr.).

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	Refer to N-RBV-18B.
Critical: No	
Standard:	Refer to N-RBV-18B.
Evaluator Note:	Procedure N-RBV-18B and the Containment Purge Discharge Permit (Attachment D SP-32B-116) are provided to the operator at this time.
Evaluator Cue:	If required: All procedure Initial Conditions and Precautions are satisfied.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Performance Step: 2	N-RBV-18B, step 4.1.2.b
Critical: No	Notify Radiation Protection discharge is about to begin, and request they changed fixed filters in R-21.
Standard:	Radiation Protection notified to change R-21 filters.
Evaluator Note:	<p>The operator may either notify the Unit Supervisor of need to contact Radiation Protection OR may directly contact Radiation Protection.</p> <p>Record keeping for this step is also identified on Attachment D sheet. The operator may initial the proper blank at this time or may do this in the following step while recording "Prior to Discharge" data.</p>
Evaluator Cue:	As either Unit Supervisor or Rad Protection: Radiation Protection acknowledges request and reports that filters for R-21 have been changed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 3	N-RBV-18B, step 4.1.2.c
Critical: Yes	Record "Prior to Discharge" data on Containment Purge Discharge Permit.
Standard:	Data for RM-11, RM-12 and R-21 indication recorded under "Prior to Discharge" section of Attachment D SP-32B-116.
Evaluator Note:	This step references the Precaution and Limitation 2.6 concerning Containment Vent Operations. This JPM does not actually start the vent/purge process and so the direction does not directly affect the operator actions. If the operator raises questions concerning SP 32-113 Data Sheet C, Containment Vent Log or logging in Control Room Log, the CUE below is provided.
Evaluator Cue:	If the operator raises questions concerning SP 32-113 Data Sheet C, Containment Vent Log, CUE: The Unit Supervisor is maintaining the Data Sheet.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

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Performance Step: 4	N-RBV-18B, step 4.1.2.d
Critical: Yes	Position R-11/12 Sample Control switch to VENT.
Standard:	R-11/R-12 Sample Control switch is in VENT position. Verify AMBER Vent light lit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 5	N-RBV-18B, step 4.1.2.e
Critical: No	Verify R-21 is operating.
Standard:	1. Check R-21 GREEN Operating light lit. 2. Check R-21 Key switch in ON position. 3. Check R-21 rate indication reading background level.
Evaluator Note:	The value for R-21 background reading is recorded on the plaque in the center of the Radiation Monitor Panel (on the left) housing the R-21 module.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 6	N-RBV-18B, step 4.1.2.e
Critical: No	Perform Source Check on the following Radiation Monitoring Channels per N-RM-45: R-11, R-12, R-21.
Standard:	Refers to N-RM-45
Evaluator Note:	Provide the operator with a copy of N-RM-45 when need is identified.
Evaluator Cue:	If required: All procedure Initial Conditions and Precautions are satisfied.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

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Performance Step: 7

Critical: Yes (1 & 4)

N-RM-45, step 4.2.2.

If a source check is required then perform the following:

- a. Momentarily press Check Source Button on affected channel and verify the following:**
 - 1. RAD MONITOR CHECK SOURCE ACTUATED (47014-B) ON.**
 - 2. Increase in indicated dose or count rate.**

Standard:

- 1. R-11 (R-12 OR R-21) SOURCE CHECK button (pad) is pressed.**
- 2. 47014-B is verified ON and acknowledged.**
- 3. R-11 (R-12 OR R-21) indicated count rate increase is verified.**
- 4. R-11 (R-12 OR R-21) Source Check indication recorded under "Prior to Discharge" section of Attachment D SP-32B-116.**

Evaluator Note:

Only the first and last items are CRITICAL for this step.

The action is the same for all three radiation monitors. The procedure does not specify a particular order for performing the source check on the radiation monitors, so all three are identified in this step.

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: 8

Critical: No

N-RM-45, step 4.2.2.b

After 30-35 seconds, verify the following:

- 1. RAD MONITOR CHECK SOURCE ACTUATED (47014-B) OFF.**
- 2. Dose or count rate lowers to normal background value.**

Standard:

After 30-35 seconds:

- 1. 47014-B is verified OFF and is reset.**
- 2. R-11 (R-12 OR R-21) indicated count rate lowered to approximately background value is verified.**

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

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Performance Step: 9 Critical: Yes	Performance Steps 7 and 8 are performed for each of the identified Radiation Monitors.
Standard:	R-11, R-12 and R-21 Source Check performed.
Evaluator Note:	This is a placekeeping step to document performance of source check for each of the three radiation monitors.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	<hr/>

Performance Step: 10 Critical: Yes	Complete Containment Purge Discharge Permit. Notify HP to install fresh filters in RM-21 Sampler.
Standard:	Place initials in blank for “Notify HP to install fresh filters in RM-21 Sampler” on Containment Purge Discharge Permit.
Evaluator Note:	This action may have been performed earlier when action was directed by N-RBV-18B.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11 Critical: Yes	Complete Containment Purge Discharge Permit. Position RM-11 Samples Selector Switch to VENT.
Standard:	Place initials in blank for “Position RM-11 Samples Selector Switch to VENT” on Containment Purge Discharge Permit.
Evaluator Note:	This action may have been performed earlier when action was directed by N-RBV-18B.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Performance Step: 12 Critical: No	Containment Purge Discharge Permit. Obtain current Meteorological data from PPCS and attach to this permit.
Standard:	Meteorological Data (Group 9) printout completed from PPCS.
Evaluator Note:	This actions on the PPCS workstation from Main Menu: 1. Select "Area/Group Display." 2. Click, "1: Operations – Protected" 3. Click, "9: Meteorological Data" 4. Click PRINT icon or select Print under File on dropdown menu.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13 Critical: Yes	Complete Containment Purge Discharge Permit. Obtain current Meteorological data from PPCS and attach to this permit.
Standard:	1. Meteorological printout attached to Containment Purge Discharge Permit. 2. Place initials in blank for "Obtain current Meteorological data from PPCS and attach to this permit" on Containment Purge Discharge Permit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 1 Critical: No	Inform Unit Supervisor of completion of steps of N-RBV-18B and the Containment Purge Discharge Permit, PRIOR TO DISCHARGE information.
Standard:	Unit Supervisor notified of completion of actions for Containment Purge Discharge Permit.
Evaluator Cue:	Acknowledge report from operator.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-018-JP03A, Perform the Actions Prior to Initiating a Containment Purge, Rev. A

Terminating Cues: When Unit Supervisor notification complete, CUE: This completes this JPM.

Stop Time: _____

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SIMULATOR SET UP:

Simulator Setup Instructions:

If necessary, reset the simulator to any Shutdown IC, then perform the following:

NOTE: This JPM is set to be run with setup conditions of JPM A.1R RO-033-JP05C, Perform Independent Verification of SI Valve Lineup.

1. Ensure Containment vent or purge is NOT in progress.
2. Update Radiation Monitor NORMAL READINGS plaques to current background values.
3. Ensure PPCS is at TOP Level Display page. (MAIN MENU)

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
N/A	N/A	N/A	N/A

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A

TURNOVER SHEET

INITIAL CONDITIONS:

You are the Reactor Operator.

The plant is in INTERMEDIATE SHUTDOWN.

HP has delivered a Containment Purge Discharge Permit to the Control Room.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to prepare for a Containment Purge by performing the steps 4.1.2.b through 4.1.2.f of N-RBV-18B, Reactor Bldg Vent System Cold Operation and Making Releases and complete the PRIOR TO DISCHARGE section of the Containment Purge Discharge Permit for the Shift Manager authorization to start.

RO-018-JP03A, Perform the Actions Prior to Initiating a Containment Purge, Rev. A
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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station**JPM TITLE:** Perform Independent Verification of SI Valve Lineup**JPM NUMBER:** RO-033-JP05C **REV.** A**RELATED PRA INFORMATION:** N/A
TASK NUMBER(S) / TASK TITLE(S): 0330050101 / Perform a Pre-Start Checklist of the Safety Injection System
 1190040304 / Perform a Independent Verification
K/A NUMBERS: 2.1.29 RO value 3.4 / SRO value 3.3**APPLICABLE METHOD OF TESTING:**
 Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒
EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

 Simulator: ☒ Other: ☐

 Lab: ☐

 Time for Completion: 8 Minutes Time Critical: No

 Alternate Path / Faulted: No
TASK APPLICABILITY: RO, SRO

Additional signatures may be added as needed.

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

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

JPM Number: RO-033-JP05C

JPM Title: Perform Independent Verification of SI Valve Lineup

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. **Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.**
2. **If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.**

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

1. You are the second NCO.
2. A plant startup is in progress at Step 4.35.3 of N-O-01, Plant Startup from Cold Shutdown to Hot Shutdown Condition (Align Safety Injection System per N-SI-33-CL, Appendix A).
3. The Reactor Operator has just completed the “Control Room Switches” portion of N-SI-33-CL, Appendix A, SI Valve Lineup Prior To Exceeding 1000 psig.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to complete the SECOND OPERATOR actions for the “Control Room Switches.”

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A**JPM PERFORMANCE INFORMATION**

Required Materials: N-SI-33-CL, Rev. AH, Appendix A with FIRST OPERATOR section completed (See under Simulator Setup)

General References: N-O-01, Rev. BD
GNP-03.09.01, Rev. D

Task Standards: Second Operator initials complete for “correct” items. BOTH incorrect items identified and reported.

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	Refer to N-SI-33-CL, Appendix A – SI VALVE LINEUP PRIOR TO EXCEEDING 1000 psig.
Critical: No	
Standard:	Refer to N-SI-33-CL, Attachment A.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2	Safety Injection Pump A	AUTO
Critical: No		
Standard:	Blank under SECOND OPER for SI Pump A initialed.	
Evaluator Note:	The order in which the items are addressed is not important. They are listed in the same order as the Appendix.	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>	
Comments:	_____	

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

Performance Step: 3 **Safety Injection Pump B** **AUTO**
Critical: No

Standard: **Blank under SECOND OPER for SI Pump B initialed.**

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

Comments:

Performance Step: 4 **SI-20A/MV32091 Accumulator A Isolation** **OPEN/AUTO**
Critical: No

Standard: **Blank under SECOND OPER for SI-20A initialed.**

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

Comments:

Performance Step: 5 **SI-20B/MV32096 Accumulator B Isolation** **OPEN/AUTO**
Critical: No

Standard: **Blank under SECOND OPER for SI-20B initialed.**

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

Comments:

Performance Step: 6 **SI-11A/MV32092 Safety Injection to Loop A Cold Leg** **OPEN/AUTO**
Critical: Yes

Standard: **Identify SI-11B as CLOSED. Blank under SECOND OPER for SI-11A NOT initialed.**

Evaluator Cue: **As UNIT SUPERVISOR acknowledge report and direct completion of the remainder of the list.**
Discrepancy will be addressed when the list is completed.

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

Comments:

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

Performance Step: 7 **SI-11B/MV32097 Safety Injection to Loop B Cold Leg** **OPEN/AUTO**
Critical: No

Standard: **Blank under SECOND OPER for SI-11B initialed.**

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

Comments: _____

Performance Step: 8 **SI-9A/MV32094 Safety Injection to RCS Cold Legs** **OPEN/MP**
Critical: No

Standard: **Blank under SECOND OPER for SI-9A initialed.**

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

Comments: _____

Performance Step: 9 **SI-9B/MV32095 Safety Injection to Reactor Vessel** **OPEN/MP**
Critical: No

Standard: **Blank under SECOND OPER for SI-9B initialed.**

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

Comments: _____

Performance Step: 10 **SI-300A/MV32111 RWST Supply to RHR Pump A** **OPEN/MP**
Critical: No

Standard: **Blank under SECOND OPER for SI-300A initialed.**

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

Comments: _____

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

Performance Step: 11	SI-300B/MV32112 RWST Supply to RHR Pump B	OPEN/MP
Critical: Yes		
Standard:	Identify FIRST OPER has not initialed blank for SI-300B. Blank under SECOND OPER for SI-300B NOT initialed.	
Evaluator Cue:	As UNIT SUPERVISOR acknowledge report and direct completion of the remainder of the list. Discrepancy will be addressed when the list is completed.	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>	
Comments:	_____	

Performance Step: 12	SI-302A/MV32100 RHR Pump A Injection to Reactor Vessel	OPEN/AUTO
Critical: No		
Standard:	Blank under SECOND OPER for SI-302A initialed.	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>	
Comments:	_____	

Performance Step: 13	SI-302B/MV32101 RHR Pump B Injection to Reactor Vessel	OPEN/AUTO
Critical: No		
Standard:	Blank under SECOND OPER for SI-302B initialed.	
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>	
Comments:	_____	

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A

Performance Step: 14 **PERFORMED BY** _____ **DATE** _____
Critical: No

Standard: **Signs and Dates PERFORMED BY blanks**

Evaluator Note: This may NOT occur if the operator reports completion of the steps he could perform and notes the two items need to be resolved for completion.

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

Comments: _____

Terminating Cues: When lineup checklist is returned to the UNIT SUPERVISOR: This completes this JPM.

Stop Time: _____

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A**SIMULATOR SET UP:****Simulator Setup Instructions:**

If necessary, reset the simulator to IC-5, HSD BOC SD Banks Out @ Critical Boron, then perform the following:

1. Go to RUN.
2. Throttle open SG PORVs to initiate RCS cooldown.
3. Reduce RCS pressure as directed in N-RC-36C, section 4.4
4. Restore power to SI valves using Trigger 1 for Remote Functions.
5. Stabilize conditions with RCS pressure is between 925 and 975 psig and RCS temperature is between 450 and 495°F.
6. Verify the SI Lineup is correct per N-SI-33 CL, Appendix A.
7. Position SI-11A control switch to CLOSE (spring return to AUTO). Verify valve closed.
8. Enter Light Override to turn off SI Ready status light for SI-11A
9. End conditions should approximate the following:
 - a. Przr Press Master Control output (lower meter ~ 67% demand)
 - b. SG A & B PORV controllers at ~610 psig (493°F)
 - c. AFW-2A at ~70% and AFW-2B at ~ 65%

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
1 TRIGGER 1	N/A	N/A	Actuates the Remote Functions to restore power to SI valves.

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
8	Light DO-44909-0201	Loop A Cold Leg Vlv S-11A Closed	N/A	N/A	OFF	N/A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
TRIGGER 1	SI115	SI-11A Breaker	ON	N/A
"	SI116	SI-11B Breaker	ON	N/A
"	SI117	SI-20A Breaker	ON	N/A
"	SI118	SI-20B Breaker	ON	N/A
"	SI119	SI-09A Breaker	ON	N/A
"	SI120	SI-09B Breaker	ON	N/A

TURNOVER SHEET

INITIAL CONDITIONS:

1. You are the second NCO.
2. A plant startup is in progress at Step 4.35.3 of N-O-01, Plant Startup from Cold Shutdown to Hot Shutdown Condition (Align Safety Injection System per N-SI-33-CL, Appendix A).
3. The Reactor Operator has just completed the "Control Room Switches" portion of N-SI-33-CL, Appendix A, SI Valve Lineup Prior To Exceeding 1000 psig.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to complete the SECOND OPERATOR actions for the "Control Room Switches."

RO-033-JP05C, Perform Independent Verification of SI Valve Lineup, Rev. A
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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station**JPM TITLE:** Reactor Coolant System Leak Rate Check**JPM NUMBER:** RO-036-JP03A **REV.** B**RELATED PRA INFORMATION:** N/A**TASK NUMBER(S) / TASK TITLE(S):** 0360030201 / Perform a Reactor Coolant System Leak Rate Check**K/A NUMBERS:** 002A4.01 RO value 3.5 / SRO value 3.8**APPLICABLE METHOD OF TESTING:**Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐Simulator: ☒ Other: ☐Lab: ☐Time for Completion: 17 Minutes Time Critical: NoAlternate Path / Faulted: No**TASK APPLICABILITY:** RO, SRO

Additional signatures may be added as needed.

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

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

JPM Number: RO-036-JP03A

JPM Title: Perform a Reactor Coolant System Leak Rate Check

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

You are the Reactor Operator.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to perform a RCS leak rate check using the PPCS in accordance with SP-36-082, Reactor Coolant System Leak Rate Check.

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

JPM PERFORMANCE INFORMATION

Required Materials: SP-36-082, Rev. AG

General References:

Task Standards: Determine RCS leak rate of 0.74 gpm, and notify the CRS that investigation and evaluation of leak is required to be started within 4 hours.

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	Refer to SP-36-082.
Critical: No	
Standard:	Refer to SP-36-082.
Evaluator Cue:	If required: All procedure Initial Conditions and Precautions are satisfied.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2	SP-36-082, step 6.1.1.a
Critical: No	On PPCS Main Menu, click on Applications Menu.
Standard:	APPLICATION MENU page displayed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

Performance Step: 3	SP-36-082, step 6.1.1.b
Critical: No	On Applications Menu, click on On Demand RCS Leakage.
Standard:	ON DEMAND RCS LEAKAGE page displayed.
Evaluator Note:	The attached Information Sheet is provided to the operator at this time.
Evaluator Cue:	Using the provided Information Sheet enter and update the PPCS page data.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 4	SP-36-082, step 6.1.1.c
Critical: No	VERIFY values are provided for all RCS Leakage data points.
Standard:	Supplied values entered into proper data point locations.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 5	SP-36-082, step 6.1.1.d
Critical: No	Verify appropriate value for VCT level Over 56%.
Standard:	“VCT Over 56%” display block indicates “NO”.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

Performance Step: 6	SP-36-082, step 6.1.1.e
Critical: YES	Click on Calculate and VERIFY printout of RCS leakage calculation results.
Standard:	<ol style="list-style-type: none"> 1. Report sheet for RCS Leakage displayed. 2. RCS Leakage sheet printed out.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 7	SP-36-082, step 6.1.1.f
Critical: Yes	Record calculated RCS leak rate on Data Sheet 1 and ATTACH RCS leakage calculation printout to Data Sheet 1.
Standard:	<ol style="list-style-type: none"> 1. Data Sheet 1, Reactor Coolant Leakage calculation By Computer data blanks filled in. 2. PERFORMED BY / DATE blanks filled in.
Evaluator Note:	<p>Provide attached partially completed Data Sheet 1 to operator.</p> <p>Cont. EI 626 Amb. Air Temp value is read from Control Board Omni-Guard.</p> <p>Containment Humidity is read from Control Board indicator 41517.</p> <p>When operator addresses “Attach Cont Sump Pump Data Sheet”, provide attached “Data Sheet 3”.</p>
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

Performance Step: 8	SP-36-082, step 6.1.1.g
Critical: No	If Mass Balance leakrate calculation is negative, THEN PERFORM one of the following:
Standard:	Step is Not Applicable.
Evaluator Note:	This item is also addressed on Data Sheet 1.
	Leak rate has positive value.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 9	SP-36-082, step 6.1.1.h
Critical: No	Record leak rate in the Control Room Log and on Shift Manager's status board.
Standard:	1. Leak rate value recorded on provided Control Room Log sheet. 2. Leak Rate recorded on Status Board.
Evaluator Cue:	The E-SOMS logs are currently not available. Use the provided Control Room Log sheet.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10	SP-36-082, step 6.1.1.i
Critical: No	If Mass Balance leakrate calculation indicates that leakage from Reactor Coolant System is negative OR leakrate is greater than 0.2 gpm, THEN GO TO Step 6.3.
Standard:	Go to Step 6.3
Evaluator Note:	This item is also addressed on Data Sheet 1.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B

Performance Step: 11	SP-36-082, step 6.3.1
Critical: No	If Reactor Coolant System leakrate is determined to be negative, THEN PERFORM the following:
Standard:	Step is Not Applicable.
Evaluator Note:	Leak rate has positive value.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12	SP-36-082, step 6.3.2
Critical: Yes	If Reactor Coolant System leakrate is determined to be greater than 0.2 gpm, THEN an investigation and evaluation shall be started within 4 hours of the indication.
Standard:	CRS notified the investigation and evaluation of leak is required to be started within 4 hours.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: When CRS is notified of leak status and actions, CUE: This completes this JPM.

Stop Time: _____

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B**INFORMATION SHEET**

	Start Data	End Data
VCT Temperature	115	116.0
VCT Pressure	20.2	18.0
VCT Level	24.8	21.6
Przr Temperature	653.7	653.3
Przr Pressure	2235.5	2233.3
Przr Level	46.9	46.5
Reactor Coolant Avg Temperature	571.9	571.6
Reactor Makeup Water	110.0	226.0
Boric Acid	10.0	15.2
Atmospheric Pressure	14.7	14.7

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B**SIMULATOR SET UP:****Simulator Setup Instructions:**

If necessary, reset the simulator to any At-Power Power IC, then perform the following:

1. Ensure PPCS is at TOP Level Display page. (MAIN MENU)
2. Enter Meter Override for Containment humidity to 10.3%.
3. Ensure Control Room Log sheet available at central desk.
4. Ensure Status Board is updated with RCS leak rate = 0.119 gpm

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
N/A	N/A	N/A	N/A

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
N/A	AO-41517	CNTMT Humidity 5-95%	N/A	N/A	5.9	N/A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A

TURNOVER SHEET

INITIAL CONDITIONS:

You are the Reactor Operator.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to perform a RCS leak rate check using the PPCS in accordance with SP-36-082, Reactor Coolant System Leak Rate Check.

RO-036-JP03A, Perform a Reactor Coolant System Leak Rate Check, Rev. B
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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station

JPM TITLE: Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service

JPM NUMBER: RO-46A-JP04A **REV.** A

RELATED PRA INFORMATION: N/A

TASK NUMBER(S) / TASK TITLE(S): 46A0030401 / Respond to PPCS Program Malfunction

K/A NUMBERS: 2.2.12 RO value 3.0 / SRO value 3.4

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: 12 Minutes Time Critical: No

Alternate Path / Faulted: Yes

TASK APPLICABILITY: RO, SRO

Additional signatures may be added as needed.

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

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

JPM Number: RO-46A-JP04A

JPM Title: Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. **Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.**
2. **If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.**

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

1. You are the Reactor Operator.
2. The Control Rod Supervision process on PPCS is NOT functioning.
3. A-CP-46, Abnormal Plant Process Computer System, has been entered and actions required are in progress for the condition.
4. Due to grid perturbations, a load change from 100% to the current power level was completed 30 minutes ago.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to complete the actions of A-CP-46 step 4.6.3.

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

JPM PERFORMANCE INFORMATION

Required Materials: A-CP-46, Rev. AW, Data Sheet #1.

General References: Technical Specification 3.10.e

Task Standards: A-CP-46 Data Sheet #1 Complete and Tech Spec LCO identified for Control Rod G11.

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	Refer to A-CP-46, Step 4.6.3.a and Data Sheet 1.
Critical: No	
Standard:	Refer to A-CP-46, Step 4.6.3.a. Refer to Data Sheet 1
Evaluator Note:	Provide operator with separate DATA SHEET #1 when use is noted. (See Attached Sheet)
Evaluator Cue:	If required, acknowledge as Unit Supervisor: Step 4.6.3 references Tech Spec 3.10.i and Tech Spec Table 4.1-1.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 2	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank A, Group 1.
Standard:	Record “226” in the matrix blank for CBA-1, STEP CTR.
Evaluator Note:	The order in which the items are addressed is not important. This JPM list the items in the same order as Data Sheet 1.
	Individual Rod Position Indication recording begins at Performance Step 11.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 3	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank A, Group 2.
Standard:	Record “226” in the matrix blank for CBA-2, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 4	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank B Group 1.
Standard:	Record “226” in the matrix blank for CBB-1, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 5	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank C, Group 1.
Standard:	Record “226” in the matrix blank for CBC-1, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 6	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank C, Group 2.
Standard:	Record “226” in the matrix blank for CBC-2, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 7	Data Sheet 1
Critical: No	Record Step Counter value for Control Bank D Group 1.
Standard:	Record “177” in the matrix blank for CBD-1, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8	Data Sheet 1
Critical: No	Record Step Counter value for Shutdown Bank A Group 1.
Standard:	Record “226” in the matrix blank for SBA-1, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 9	Data Sheet 1
Critical: No	Record Step Counter value for Shutdown Bank A Group 2.
Standard:	Record “226” in the matrix blank for SBA-2, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10	Data Sheet 1
Critical: No	Record Step Counter value for Shutdown Bank B Group 1.
Standard:	Record “226” in the matrix blank for SBB-1, STEP CTR.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 11	Data Sheet 1
Critical: No	Record RPI values for Control Bank A Group 1.
Standard:	Record value between “220 - 230” in the matrix blank for each CBA-1 rod in matrix under RPI and: 1. L6. 2. B8. 3. F2. 4. H12.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 12	Data Sheet 1
Critical: No	Record RPI values for Control Bank A Group 2.
Standard:	Record value between “220 - 230” in the matrix blank for each CBA-2 rod in matrix under RPI and: 1. H2. 2. F12. 3. B6. 4. L8.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 13	Data Sheet 1
Critical: No	Record RPI values for Control Bank B Group 1.
Standard:	Record value between “220 - 230” in the matrix blank for each CBB-1 rod in matrix under RPI and: 1. F6. 2. F8. 3. H8. 4. H6.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 14	Data Sheet 1
Critical: No	Record RPI values for Control Bank C Group 1.
Standard:	Record value between “220 - 230” in the matrix blank for each CBC-1 rod in matrix under RPI and: 1. J4. 2. D10.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 15	Data Sheet 1
Critical: No	Record RPI values for Control Bank C Group 2.
Standard:	Record value between “220 - 230” in the matrix blank for each CBA-1 rod in matrix under RPI and: 1. D4. 2. G7. 3. J10.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 16	Data Sheet 1
Critical: Yes	Record RPI values for Control Bank D Group 1.
Standard:	Record value between “175 - 180” in the matrix blank for the following CBD-1 rods in matrix under RPI and: 1. G3. 2. C7. 3. K7. Record value between “190 – 200” in the matrix for CBD rod G11 under RPI.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 17	Rod G11 fails to meet acceptance criteria: $\geq 85\%$ Full Power: 12 steps from bank step counter (TS 3.10.e.1).
Critical: Yes	
Standard:	Notify CRS that Control Bank D rod G11 does not meet the acceptance criteria for alignment (TS 3.10.e.1).
Evaluator Note:	<p>The operator may report this immediately or may wait until the completion of the surveillance (Data Sheet 1) and review of Acceptance Criteria.</p> <p>Operator may also include information “See A-CRD-49 for corrective actions”, which is identified on Data Sheet 1.</p>
Evaluator Cue:	Acknowledge report. If required, direct continuing with the remainder of Data Sheet #1.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 18	Data Sheet 1
Critical: No	Record RPI values for Shutdown Bank A Group 1.
Standard:	<p>Record value between “220 - 230” in the matrix blank for each SBA-1 rod in matrix under RPI and:</p> <ol style="list-style-type: none"> 1. E3. 2. I11.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 19	Data Sheet 1
Critical: No	Record RPI values for Shutdown Bank A Group 2.
Standard:	Record value between “220 - 230” in the matrix blank for each SBA-2 rod in matrix under RPI and: 1. C9. 2. K5.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 20	Data Sheet 1
Critical: No	Record RPI values for Shutdown Bank B Group 1.
Standard:	Record value between “220 - 230” in the matrix blank for each SBB-1 rod in matrix under RPI and: 1. C5. 2. K9. 3. E11. 4. I3.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 21	Record Maximum Deviation based on Acceptance Criteria information
Critical: No	
Standard:	Record “12’ in MAX DEVIATION matrix.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

Performance Step: 22	TIME, POWER and INITIALS blocks.
Critical: No	
Standard:	Records current time, "current power level" and initials in the matrix for the completion of Data Sheet #1.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: When Data Sheet #1 is returned to the CRS or operator notes that Data Sheet 1 will be attached to SP-87-125 (Shift Surveillance): This completes this JPM.

Stop Time: _____

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

SIMULATOR SET UP:

Simulator Setup Instructions:

If necessary, reset the simulator to IC-14, 85% BOC equilibrium Xenon, then perform the following:

1. Go to RUN.
2. Place the Control Rod Bank Selector switch to MAN position
3. Insert override for the rod control alarm TLA-1 (47033-11) and TLA-9 (47033-24)
4. Adjust turbine load by tapping the RAISE VLP and adjusting Reference Control until indicated reactor power is between 86 and 87%.
5. Adjust RCS boron concentration (dilution) to match Tave-Tref. [~ 5 ppm]
6. Position the Lift Coil Disconnect Switches for Control Bank D rods G3, C7 and K7 to DISCONNECT.
7. Place the Control Rod Bank Selector switch to CBD position.
8. Perform the following actions concurrently:
 - a. Withdraw control rod G11 until Control Bank D Group 1 Step Position (step counter) reads **196**.
 - b. Adjust RCS boron concentration (boration) using the Remote Function to maintain Tave-Tref. [~ 1 ppm]
9. Ensure plant conditions are stable.
10. Position the Lift Coil Disconnect Switches for Control Bank D rods G3, C7 and K7 to CONNECT.
11. Reset the Control Bank D Group 1 Position (step counter) to **177** using the DOWN pushbutton.
12. Reset Bank D P/A converter using Remote Function, and then delete the Remote Function.
13. Reset affected Bank Position on PPCS:
 - a. PPCS Functions, Operator Entry, Rod Bank Position Update
 - b. Enter **177** for Control Bank D in NEW POSITION.
 - c. Click APPLY.
14. Place Control Rod Bank Selector switch to AUTO position.
15. Acknowledge PPCS alarms and ensure all PPCS Displays set to page other than ALARM SUMMARY.

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
N/A	N/A	N/A	N/A

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
Preload	DO-47033-0101	TLA-1 Rod Supervision Alarm	N/A	N/A	OFF	N/A
Preload	DO-47033-0204	TLA-9 Core Exit TC Tilt Alarm	N/A	N/A	OFF	N/A

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
5 & 8.b	RC119	Set RCS, PZR, VCT to Same Boron Concentration	As necessary starting from 1573	N/A
12	RD107	Control Bank D P-A Converter	177	N/A

TURNOVER SHEET

INITIAL CONDITIONS:

1. You are the Reactor Operator.
2. The Control Rod Supervision process on PPCS is NOT functioning.
3. A-CP-46, Abnormal Plant Process Computer System, has been entered and actions required are in progress for the condition.
4. Due to grid perturbations, a load change from 100% to 87% power was completed 30 minutes ago.

INITIATING CUES (IF APPLICABLE):

The Unit Supervisor directs you to complete the actions of A-CP-46 step 4.6.3.

RO-033-JP05C, Record Individual Rod Positions with Control Rod Supervision Program (PPCS) Out of Service, Rev. A
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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station

JPM TITLE: Review a Gas Decay Tank Discharge Permit

JPM NUMBER: SO-119-JP01A **REV.** A

RELATED PRA INFORMATION: N/A

TASK NUMBER(S) / TASK TITLE(S): 1190010102/ Direct Discharge of Radiological Gaseous Waste

K/A NUMBERS: 2.3.6 RO value 2.1 / SRO value 3.1

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☒ Perform: ☐

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: 8 Minutes Time Critical: No

Alternate Path / Faulted: No

TASK APPLICABILITY: SRO

Additional signatures may be added as needed.

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

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A

JPM Number: SO-119-JP01A

JPM Title: Review a Gas Decay Tank Discharge Permit

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. **Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.**
2. **If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.**

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

You are the Shift Manager.

The plant is in INTERMEDIATE SHUTDOWN.

A Gas Decay Tank Discharge Permit was received from HP.

The RO has completed the PRIOR TO DISCHARGE section of the Gas Decay Tank.

INITIATING CUES (IF APPLICABLE):

Review the Gas Decay Tank Discharge Permit for Authorization to Start.

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A

JPM PERFORMANCE INFORMATION

Required Materials: SP-32B-116, Rev. X, Attachment D with Top section completed, and PRIOR TO DISCHARGE information complete through Authorization to Start.

General References: None

Task Standards: Attachment E SP-32B-116, reviewed and determined unacceptable to sign until the second Aux Bldg. Exhaust Fan and ventilation is aligned and operating.

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	Refer to Gas Decay Tank Discharge Permit.
Critical: No	
Standard:	Refer to Gas Decay Tank Discharge Permit.
Evaluator Note:	The Gas Decay Tank Purge Discharge Permit (Attachment A SP-32B-116 and supporting information) were provided to the operator with the Initial Cue sheet.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A

Performance Step: 2	Review the Upper section of Gas Decay Tank Discharge Permit.
Critical: No	
Standard:	Blanks and signatures reviewed as complete.
Evaluator Note:	This portion of the Permit identifies that the Total Gas Activity of the Gas Decay Tank exceeds the value of 1.0 E-2 μCi/cc.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 3	Review Radiation Monitor information on Gas Decay Tank Discharge Permit.
Critical: No	
Standard:	Determine data for RM-13 and RM-14 background indication and source check reading are recorded under "Prior to Discharge" section of the Gas Decay Tank Discharge Permit.
Evaluator Note:	The radiation monitor values and/or background readings as recorded on the Radiation Monitor plaques may be checked.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A

Performance Step: 4 Critical: Yes	Review Aux Bldg. Vent System lineup on Gas Decay Tank Discharge Permit.
Standard:	Determine BOTH Aux Bldg Ventilation Trains are required for release (and only one is currently running).
Evaluator Note:	Operator may check indication for Aux Bldg. Ventilation System on Control Panel (AUX BLDG VENT). This will show only Train A Aux Bldg Vent and Train A SFP Exhaust in service. For this release, Train B SFB Exhaust and then Train B Aux Bldg Exhaust Fan would need to be started.
Evaluator Cue:	If required, Continue review of remaining items on permit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 5 Critical: No	Check Meteorological Data from PPCS is attached to Gas Decay Tank Discharge Permit.
Standard:	Check Operations – Protected, Group 9 printout attached to Gas Decay Tank Discharge Permit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 6 Critical: Yes	Authorization to Start (Shift Manager) and Time/Date blank on Gas Decay Tank Discharge Permit.
Standard:	Authorization to Start (Shift Manager) left unsigned.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Terminating Cues: When review of Gas Decay Tank Discharge Permit complete, CUE: This completes this JPM.

Stop Time: _____

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A**SIMULATOR SET UP:****Simulator Setup Instructions:**

If necessary, reset the simulator to any Shutdown IC, then perform the following:

NOTE: This JPM is set to be run with setup conditions of JPM A.1R RO-033-JP05C, Perform Independent Verification of SI Valve Lineup.

1. Update Radiation Monitor NORMAL READINGS plaques to current background values.
2. Ensure PPCS is at TOP Level Display page. (MAIN MENU)
3. Ensure only one train of Aux Bldg Vent running. (Train A)

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
N/A	N/A	N/A	N/A

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A

TURNOVER SHEET

INITIAL CONDITIONS:

You are the Shift Manager.

The plant is in INTERMEDIATE SHUTDOWN.

A Gas Decay Tank Discharge Permit was received from HP.

The RO has completed the PRIOR TO DISCHARGE section of the Gas Decay Tank.

INITIATING CUES (IF APPLICABLE):

Review the Gas Decay Tank Discharge Permit for Authorization to Start.

SO-119-JP01A, Review a Gas Decay Tank Discharge Permit, Rev. A
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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)



JOB PERFORMANCE MEASURE (JPM)

SITE: KNPP

JPM TITLE: CLASSIFY EMERGENCY EVENT - Control Room Evacuation

JPM NUMBER: SO-119-JP03K **REV.** A

RELATED PRA INFORMATION: N/A

TASK NUMBER(S) / TASK TITLE(S): 1190030502 / Determine Emergency Classification

K/A NUMBERS: 2.4.29, SRO 4.0

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☒ Control Room: ☒

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: 15 Minutes Time Critical: Y

Alternate Path / Faulted: N

TASK APPLICABILITY: _____

Additional signatures may be added as needed.

Developed by:	Ron Giuliani	5/24/2004
	Instructor	Date
Validated by:	Jeff Stoeger	5/27/2004
	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Dave Fitzwater	5/28/2004
	Training Supervisor	Date

SO-119-JP03K, CLASSIFY EMERGENCY EVENT - Control Room Evacuation, Rev. A

JPM Number: SO-119-JP03K

JPM Title: CLASSIFY EMERGENCY EVENT - Control Room Evacuation

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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 Shift manager
- There is a fire reported in the Relay Room and the CO₂ suppression system was initiated.
- There is smoke in the Control Room
- E-FP-08 has indicated that entry into E-0-06 was required.
- The condition of the plant follows:
- The Reactor and Turbine were successfully tripped.
- MSIVs are closed
- E-0-06 was completed to step 9

INITIATING CUES:

- In accordance with step 9a you have gone to the TSC for Emergency Plan implementation
- **Classify this event**
Notifications are not required

Are there any questions?

- Answer any questions the candidate may have.
- Provide copies of E-0-06, E-FP-08, and EPIP-AD-02 as required. (see step 1)

Lets Begin

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: E-0-06, rev S - Fire in Alternate Fire Zone

Task Standards: EPIP-AD-02, Rev. AJ – Emergency Class Determination
Classify the event – Control Room Evacuation

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	EPIP-AD-02
Critical: <u>N</u>	Refer to EPIP-AD-02
Standard:	Obtain copy of EPIP-AD-02
Evaluator Cue:	In the Simulator or Control Room or TSC, the <u>candidate will obtain</u> copies of procedures. In settings <u>OUTSIDE</u> the Simulator or Control Room or TSC, the evaluator will provide the candidate a copy of EPIP-AD-02 and E-0-06 as requested.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2

EPIP-AD-02, 5.1

Critical: N

Standard:

Refer to EPIP-AD-02 Table 2-1

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: 3

EPIP-AD-02, Table 2-1, Chart J

Critical: Y

Standard:

Classify event as SITE EMERGENCY

- **Chart J – Evacuation of Control Room (E-0-06 event)**

Evaluator Note:

- 1. The candidate may also indicate that Chart K applies. Although not incorrect, Chart J for Control Room Evacuation is the most correct and highest level.**
- 2. This JPM has a 15 minute time limit**

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Terminating Cues: **This completes this JPM. (Following classification**

Stop Time: _____

This JPM has a 15 minute time limit

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Shift manager
- There is a fire reported in the Relay Room and the CO₂ suppression system was initiated.
- There is smoke in the Control Room
- E-FP-08 has indicated that entry into E-0-06 was required.
- The condition of the plant follows:
- The Reactor and Turbine were successfully tripped.
- MSIVs are closed
- E-0-06 was completed to step 9

INITIATING CUES :

- In accordance with step 9a you have gone to the TSC for Emergency Plan implementation
- **Classify this event**
Notifications are not required

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 type="checkbox"/>	<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. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 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?	<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?	<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"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

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Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Kewaunee Power Station**JPM TITLE:** Shift Staffing Evaluation – Reduced Crew Due To Weather**JPM NUMBER:** SO-119-JP19A **REV.** A**RELATED PRA INFORMATION:** N/A
TASK NUMBER(S) / TASK TITLE(S): 1190190302 / Apply Technical Specifications During Plant Operations.
 1190060502 / Conduct Shift Relief and Turnover.

K/A NUMBERS: 2.1.4, RO value 2.3 / SRO value 3.4
 2.1.10, RO value 2.7 / SRO value 3.9
APPLICABLE METHOD OF TESTING:
 Discussion: ☐ Simulate/walkthrough: ☒ Perform: ☐
EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☒ Other: ☒
 Classroom
 Lab: ☐

 Time for Completion: 15 Minutes Time Critical: No

 Alternate Path / Faulted: No
TASK APPLICABILITY: SRO

Additional signatures may be added as needed.

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

SO-119-JP19A, Shift Staffing Evaluation – Reduced Crew Due To Weather, Rev. A

JPM Number: SO-119-JP19A

JPM Title: Shift Staffing Evaluation – Reduced Crew Due To Weather

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made 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.

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JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., 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.

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.

Read to Examinee:

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.

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

Note to Instructor:

1. Human Performance attributes should be visible. The student may use obvious STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

This should be explained to the student at this time.

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

INITIAL CONDITIONS:

You are the Shift Manager.

The plant is operating at 100% power.

Turnover has been completed, but the oncoming Unit Supervisor has not shown up.

The on-duty shift staffing was at the minimum staffing requirement.

The one hour after turnover, the Unit Supervisor (held over) becomes incapacitated and CANNOT perform his duties.

Callout indicates that the replacement individual CANNOT make it to the site for 3 hours due to a severe snowstorm in the area.

INITIATING CUES (IF APPLICABLE):

Determine the affect on continued plant at-power operations for the conditions above.

SO-119-JP19A, Shift Staffing Evaluation – Reduced Crew Due To Weather, Rev. A

JPM PERFORMANCE INFORMATION

Required Materials: KPS Technical Specification, Section 6.2.b, Amendment No. 162

General References: None

Task Standards: Determine plant operation may continue with less than on-duty shift complement for greater than 2 hours due to severe weather.

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 Refer to Technical Specification, Section 6.2.

Critical: No

Standard: Refer to Technical Specification 6.2.

Performance: SATISFACTORY ☐ UNSATISFACTORY ☐

Comments: _____

Performance Step: 2 Review 6.2.b. 1 and 6.2.b.2. – One shift Manager (SRO) is required and an additional SRO is required when above COLD SHUTDOWN.

Critical: Yes

Standard: Determine minimum Shift Complement is not met.

Performance: SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

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Performance Step: 3 Critical: Yes	Review 6.2.3. – In the event one of the shift members becomes incapacitated due to illness or injury... reactor operations may continue with reduced complement until replacement arrives. In all but severe weather conditions, a replacement is required within 2 hours.
Standard:	Determine continued operation is allowed over 2 hours since severe weather conditions exist.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Terminating Cues: When review of shift complement requirements is complete and operator identifies the condition for operation, CUE: This completes this JPM.

Stop Time: _____

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SIMULATOR SET UP:

Simulator Setup Instructions:

1. None

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
N/A	N/A	N/A	N/A

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	f. SERV	RAMP	I. SEV.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR OVERRIDES;

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A	N/A	N/A

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION NO.	REMOTE FUNCTION TITLE	VALUE	RAMP
N/A	N/A	N/A	N/A	N/A

TURNOVER SHEET

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SO-119-JP19A, Shift Staffing Evaluation – Reduced Crew Due To Weather, Rev. A
ATTACHMENT 1

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