

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Operator License Status Verification

**JPM NUMBER:** 2.1.4-02

**REV.** 1

**TASK NUMBER(S) / TASK TITLE(S):** 96.05 /  
Conduct Plant Operations in Accordance with Administrative Procedures

**K/A NUMBERS:** 2.1.4

**K/A VALUE:** 3.3 / 3.8

**Justification (FOR K/A VALUES <3.0):** N/A

**TASK APPLICABILITY:**

☒ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☐ Other: ☒  
Lab: ☐

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	_____ Instructor/Developer	_____ Date
<b>Reviewed by:</b>	_____ Instructor (Instructional Review)	_____ Date
<b>Validated by:</b>	_____ SME (Technical Review)	_____ Date
<b>Approved by:</b>	_____ Training Supervision	_____ Date
<b>Approved by:</b>	_____ Training Program Owner	_____ Date

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None



**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

SIMULATOR SETUP INSTRUCTIONS: NONE

SIMULATOR MALFUNCTIONS: NONE

SIMULATOR OVERRIDES: NONE

SIMULATOR REMOTE FUNCTIONS: NONE

**Required Materials:**

- Handout, Reactor Operator Shift History, Medical Dates, and SCBA Status
- ODI 009, Nuclear Station Plant Equipment Operator, Reactor Operator, Senior Reactor Operator, and Shift Technical Advisor Qualification Requirements, current revision

**General References:**

- ODI 009, Nuclear Station Plant Equipment Operator, Reactor Operator, Senior Reactor Operator, and Shift Technical Advisor Qualification Requirements, Rev. 48

**Task Standards:**

- RO #1 CANNOT relieve the watch due to the expiration of the SCBA qualifications
- RO #2 CANNOT relieve the watch due to the expiration of the medical exam
- RO #3 CAN relieve the watch

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:**

- It is today's date
- You are an on shift Assistant Nuclear Station Operating Engineer (ANSOE) and require a relief
- There are only three (3) reactor operators available for the relief

**INITIATING CUES (IF APPLICABLE):**

- Using the given information in the HANDOUT, determine which of the three operators, if any, are qualified to relieve you
- Document the bases for your findings in the boxes on the bottom of the handout

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

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.

<b>Performance Step:</b> <b>Critical: Y</b>	Review of the HANDOUT for the ability of RO #1 to relieve the watch.
<b>Standard:</b>	The Operator determines that RO #1 CANNOT relieve the watch due to the expiration of the SCBA qualifications to satisfy the requirements of ODI-009.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: Y</b>	Review of the HANDOUT for the ability of RO #2 to relieve the watch.
<b>Standard:</b>	The Operator determines that RO #2 CANNOT relieve the watch due to the expiration of their medical exam to satisfy the requirements of ODI-009.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> ____
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: Y</b>	Review of the HANDOUT for the ability of RO #3 to relieve the watch.
<b>Standard:</b>	The Operator determines that RO #3 CAN relieve the watch.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> ____
<b>Comments:</b>	

**Terminating Cues:** When the HANDOUT is completed and returned to the evaluator.

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



## 2.1.4-02, Operator License Status Verification, Rev. 1

**JPM**  
Page 8 of 10

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE:** ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.

**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.*



## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- It is today's date
- You are an on shift Assistant Nuclear Station Operating Engineer (ANSOE) and require a relief
- There are only three (3) reactor operators available for the relief

### **INITIATING CUES (IF APPLICABLE):**

- Using the given information in the HANDOUT, determine which of the three operators, if any, are qualified to relieve you
- Document the bases for your findings in the boxes on the bottom of the handout

**NOTE: Ensure the turnover sheet and HANDOUT that was given to the examinee is returned to the evaluator.**



## HANDOUT, REACTOR OPERATOR SHIFT HISTORY, MEDICAL DATES, AND SCBA STATUS

**JPM**  
Page 10 of 10

RO #1			RO #2			RO #3		
Hours Performing License Duties in Last Quarter			Hours Performing License Duties in Last Quarter			Hours Performing License Duties in Last Quarter		
1/16/19	0700-1900	NSOE	1/12/19	0700-1900	SANSOE	1/06/19	0700-1900	ANSOE
1/17/19	0700-1900	ANSOE	1/30/19	0700-1900	NSOE	1/08/19	0700-1900	NSOE
1/25/19	0700-1900	NSOE	2/14/19	0700-1900	ANSOE	1/09/19	0700-1900	ANSOE
2/05/19	0700-1900	WCC	2/15/19	0700-1900	WCC	1/15/19	0700-1900	WCC
2/06/19	0700-1900	EANSOE	2/24/19	0700-1900	ANSOE	2/01/19	0700-1900	ANSOE
2/07/19	0700-1900	ANSOE	2/25/19	0700-1900	ANSOE	2/24/19	0700-1900	ANSOE
3/04/19	0700-1900	NSOE	3/26/19	0700-1900	NSOE			
3/05/19	0700-1900	WCC						
Date of Most Recent License Medical Exam 5/10/17			Date of Most Recent License Medical Exam 03/31/17			Date of Most Recent License Medical Exam 08/05/17		
SCBA Qualification Status: Expired			SCBA Qualification Status: Current			SCBA Qualification Status: Current		

### Determination of the data provide above

Qualified for Watch Relief (Circle ONE)?  YES or NO	Qualified for Watch Relief (Circle ONE)?  YES or NO	Qualified for Watch Relief (Circle ONE)?  YES or NO
If NO, what requirement(s) is/are not being met?	If NO, what requirement(s) is/are not being met?	If NO, what requirement(s) is/are not being met?

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Perform the RHR Control Panel Lineup

**JPM NUMBER:** 2.1.31-01

**REV.** 1

**TASK NUMBER(S) / TASK TITLE(S):** RO 1.01 /  
Perform Control Panel Lineups

**K/A NUMBERS:** G2.1.31

**K/A VALUE:** 4.2 / 3.9

**Justification (FOR K/A VALUES <3.0):** N/A

**TASK APPLICABILITY:**

☒ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☐

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☒ Other: ☐  
Lab: ☐

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	_____	_____
	Instructor/Developer	Date
<b>Reviewed by:</b>	_____	_____
	Instructor (Instructional Review)	Date
<b>Validated by:</b>	_____	_____
	SME (Technical Review)	Date
<b>Approved by:</b>	_____	_____
	Training Supervision	Date
<b>Approved by:</b>	_____	_____
	Training Program Owner	Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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All questions/statements must be answered "YES" or "N/A" or the JPM is not valid for use. If all questions/statements are answered "YES" or "N/A," then the JPM is considered valid and can be performed as written. The individual(s) performing the initial validation shall sign and date the cover sheet.

**Protected Content:** None



**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

**SIMULATOR SETUP INSTRUCTIONS:**

1. Reset to any IC with RHR in the Standby Readiness condition
2. Go to RUN
3. Close MO-1940 and MO-2030, the RHR Heat Exchanger Bypass Valves
4. Open MO-1937, the Inboard RHR Drain to Radwaste Isolation
5. Insert keys from the Key Locker (not the Emergency box) into the keylock switches for MO-1932 and MO-2005, the Outboard Torus Cooling/Spray valves. Do NOT reposition these valves.

SIMULATOR MALFUNCTIONS: None

SIMULATOR OVERRIDES: None

SIMULATOR REMOTE FUNCTIONS: None

**Required Materials:**

- OI 149, RHR System Control Panel Lineup

**General References:**

- OI 149, RHR System Control Panel Lineup, Rev. 3

**Task Standards:**

- Identify that MO-1940 is CLOSED rather than AUTO/OPEN
- Identify that MO-1937 is OPEN rather than AUTO/CLOSE
- Identify that MO-2030 is CLOSED rather than AUTO/OPEN

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:**

- The RHR System was in the Torus Cooling mode of operation to support other testing
- Another operator has secured RHR IAW OI 149, section 7.2 is complete through step 9

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor directs you to perform OI-149 Attachment 6, the “RHR Control Panel Lineup”, per section 7.2 step 10 to return RHR to standby readiness

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

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.

<b>Performance Step:</b> <b>Critical: N</b>	Locate RHR Control Room switches, controls, and indications and determine that they are correctly reflecting the desired plant lineup.
<b>Standard:</b>	Per OI-149 Attachment 6, operator verifies component status and initials in the box provided for components in their proper lineup.
<b>Evaluator Note:</b>	Not critical for most components because they are already in the correct lineup.
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: Y</b>	Verify that MO-1940 “B” Heat Exchanger Bypass is in the AUTO/OPEN position
<b>Standard:</b>	Operator identifies that MO-1940 is CLOSED rather than AUTO/OPEN
<b>Evaluator Cue:</b>	Once the Operator identifies that MO-1940 is out of position and IF it is reported to the Control Room Supervisor, <b>ACKNOWLEDGE THE REPORT</b> and tell the Operator to document any additional issues with the control panel lineup.
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY _____
<b>Comments:</b>	



<b>Performance Step:</b> <b>Critical: N</b>	Verify that MO-1932 Outboard Torus Cooling/Spray is in the CLOSE/CLOSE position
<b>Standard:</b>	<b>Operator removes the key from the keylock switch</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: Y</b>	Verify that MO-1937 Inboard RHR Drain to Radwaste Isolation is in the AUTO/CLOSE position
<b>Standard:</b>	<b>Operator identifies that MO-1937 is OPEN rather than AUTO/CLOSE</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: Y</b>	Verify that MO-2030 "A" Heat Exchanger Bypass is in the AUTO/OPEN position
<b>Standard:</b>	<b>Operator identifies that MO-2030 is CLOSED rather than AUTO/OPEN</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>Critical: N</b>	Verify that MO-2005 Outboard Torus Cooling/Spray is in the CLOSE/CLOSE position
<b>Standard:</b>	<b>Operator removes the key from the keylock switch</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

**Terminating Cues:**      **Operator has completed Attachment 6 and has given to the Evaluator.**

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:**      \_\_\_\_\_



## 2.1.31-01, Perform the RHR Control Panel Lineup, Rev. 1

**JPM**  
Page 9 of 10

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE:** ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The RHR System was in the Torus Cooling mode of operation to support other testing
- Another operator has secured RHR IAW OI 149, section 7.2 is complete through step 9

### INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to perform OI-149 Attachment 6, the “RHR Control Panel Lineup”, per section 7.2 step 10 to return RHR to standby readiness

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Perform STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST [50% Power, JP11/JP12 Failure]

**JPM NUMBER:** 2.2.12-05

**REV.** 0

**TASK NUMBER(S) / TASK TITLE(S):** 1.07/  
Perform Surveillance Testing

**K/A NUMBERS:** 2.2.12 **K/A VALUE:** 3.7

**Justification (FOR K/A VALUES <3.0):** N/A

**TASK APPLICABILITY:**

☒ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☒ Other: ☐  
Lab: ☐

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	_____	_____
	Instructor/Developer	Date
<b>Reviewed by:</b>	_____	_____
	Instructor (Instructional Review)	Date
<b>Validated by:</b>	_____	_____
	SME (Technical Review)	Date
<b>Approved by:</b>	_____	_____
	Training Supervision	Date
<b>Approved by:</b>	_____	_____
	Training Program Owner	Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED PRIOR TO USE.**

REVIEW STATEMENTS	YES	NO	N/A
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All questions/statements must be answered "YES" or "N/A" or the JPM is not valid for use. If all questions/statements are answered "YES" or "N/A," then the JPM is considered valid and can be performed as written. The individual(s) performing the initial validation shall sign and date the cover sheet.

**Protected Content:** None

[illegible]

**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

**SIMULATOR SETUP INSTRUCTIONS:**

1. Reset the simulator to **IC 13**, unless usage of provided picture attachments are used
2. Insert the malfunction per the table below
3. If using the simulator, allow approximately 2 minutes for readings to stabilize
4. Complete STP 3.4.2-01 up to section 7.2 by documenting the following:
  - a. Step 7.1.1.a is 75.5
  - b. Step 7.1.2.a is 75.3
  - c. Plot these values on Figure 1

**SIMULATOR MALFUNCTIONS:**

TIME	MALFUNCTION #	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.
Set up	RR14b	REC JET PMP RISER FAIL- RR P-A RSR TO JET PMP 11&12	0	0	20	0	0

SIMULATOR OVERRIDES: None

SIMULATOR REMOTE FUNCTIONS: None

**Required Materials:**

- STP 3.4.2-01, Daily Jet Pump Operability Test
- Calculator

**General References:**

- STP 3.4.2-01, Daily Jet Pump Operability Test, Rev. 37

**Task Standards:**

- Operator plots the MG set speed of 75.5% and Disch Flow of 25 KGPM above the 2 lines
- Operator plots the MG set speed of 75.5% and Flow of 15.42 Mlb/hr below the bottom line
- Records Jet pump differential pressures in column A of Table A
- Calculates the sum of the individual Jet Pump  $\Delta P$ s and average Jet Pump  $\Delta P$
- Calculates the difference between each individual Jet Pump  $\Delta P$  and the average  $\Delta P$
- Calculates the percent deviation of each individual Jet Pump
- On attachment 4, Jet Pump 9, 11, 12, 14, 15 outside of the allowable area



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:**

- The plant is operating at 50% rated thermal power
- Another operator was performing STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST; but he was called away for other plant issues
- STP 3.4.2-01, Section 7.1 was completed SAT
- The JETS program is unavailable on the VAX computer

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor directs you to continue with STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST, continuing with Section 7.2

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

**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.

<b>Performance Step:</b> <b>STP 7.2.1</b> <b>Critical: N</b>	At 1C04, record the following data for the "A" Recirc Pump: "A" MG SET PERCENT SPEED (SIC-9245A.X) _____ % DISCHARGE FLOW (FI-4634A) _____ KGPM LOOP "A" FLOW (FR-4503, Ch 1) _____ Mlbm/hr
<b>Standard:</b>	<b>Records the following values: Values should be approximately as follows:</b>  "A" MG SET PERCENT SPEED (SIC-9245A.X) <u>75.5</u> %  DISCHARGE FLOW (FI-4634A) <u>25</u> KGPM  LOOP "A" FLOW (FR-4503, Ch 1) <u>15.42</u> Mlbm/hr
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.2</b> <b>Critical: Y</b>	Using the data recorded in Step 7.2.1, plot "A" Recirc MG Set speed vs. "A" Recirc Pump discharge flow on Figure 2.
<b>Standard:</b>	<b>Operator plots the MG set speed of 75.5% and Flow of 25 KGPM is above the 2 lines.</b>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.3</b> <b>Critical: Y</b>	Using the data recorded in Step 7.2.1, plot "A" Recirc MG Set speed vs. Loop "A" Jet Pump flow on Figure3.
<b>Standard:</b>	<b>Operator plots the MG set speed of 75.5% and Flow of 15.42 Mlb/hr below the bottom line.</b>
<b>Evaluator Cue:</b>	<b>If a TS out of spec report is made, Role Play as CRS and acknowledge the report. Inform operator that the CRS will start investigating TS and continue with the STP section.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.4a-c</b> <b>Critical: N</b>	Perform the following evaluation: a. Are all of the points that were plotted on Figure 2 and Figure 3 between or on the sloped lines?
<b>Standard:</b>	<b>Operator answers NO to the question and proceeds to step 7.2.4.c.</b>  <b>Operator then informs the CRS and N/A's step 7.2.4.b and continues with STP section.</b>
<b>Evaluator Cue:</b>	<b>Role Play as CRS and acknowledge the report. Inform operator that the CRS will start investigating TS and continue with the STP section.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.5a</b> <b>Critical: N</b>	IF the JETS program is available, obtain a printout of "A" Recirc Loop ΔP's using the instructions provided in Appendix "A". a. Attach the printout to the STP.
<b>Standard:</b>	<b>Operator will placekeep this step with "N/A."</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.6a</b> <b>Critical: Y</b>	If the JETS program is NOT available, perform the following: a. At 1C38 recorder FR-4501 Jet Pump Flow – Loop "A", using the "2 MIN AVE" screen record the indicated RECIRC LOOP "A" Jet Pump differential pressure value for each Jet Pump in column "A" of Table A (contained in Step 7.2.6.d).
<b>Standard:</b>	<b>Records Jet pump differential pressures in column A of Table A. Values should be approximately as follows:</b>  <b>JP-9    7.07</b> <b>JP-10   6.11</b> <b>JP-11   1.87</b> <b>JP-12   1.78</b> <b>JP-13   6.43</b> <b>JP-14   6.56</b> <b>JP-15   6.81</b> <b>JP-16   6.43</b>
<b>Evaluator Note:</b>	<b>The operator may round the readings from 1C38 to the tenths. This is acceptable.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.6b</b> <b>Critical: Y</b>	Calculate the sum of the individual Jet Pump $\Delta P$ s and the average Jet Pump $\Delta P$ and record those values in the appropriate spaces at the bottom of Table A.
<b>Standard:</b>	Operator will calculate the sum of the individual Jet Pump $\Delta P$ s and record the value as <u>  43.06  </u> .  Operator will calculate the average Jet Pump $\Delta P$ and record the value as <u>  5.38  </u> .
<b>Evaluator Note:</b>	The operator may round the readings from 1C38 to the tenths. This is acceptable.
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY ____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.6c</b> <b>Critical: Y</b>	Calculate the difference between each individual Jet Pump $\Delta P$ and the average $\Delta P$ and record the results in column "B" of Table A.
<b>Standard:</b>	Operator will calculate the difference between each individual Jet Pump $\Delta P$ and the average $\Delta P$ and record the following results:  JP-9    4.69 JP-10   0.73 JP-11  -3.51 JP-12  -3.60 JP-13   1.05 JP-14   1.18 JP-15   1.43 JP-16   1.05
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY ____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.6d</b> <b>Critical: Y</b>	Using the following equation, calculate the percent deviation of each individual Jet Pump $\Delta P$ from the average $\Delta P$ , and record the result in column "C" of Table A.
<b>Standard:</b>	<p>Operator will use the provided equation and calculate the percent deviation of each individual Jet Pump <math>\Delta P</math> from the average <math>\Delta P</math>, and record the following results:</p> <p> <b>JP-9    87.17</b>  <b>JP-10   13.57</b>  <b>JP-11   -65.24</b>  <b>JP-12   -66.91</b>  <b>JP-13   19.52</b>  <b>JP-14   21.93</b>  <b>JP-15   26.58</b>  <b>JP-16   19.52</b> </p>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> ____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.7</b> <b>Critical: Y</b>	Plot each individual Recirc Loop "A" Jet Pump % deviation value (from column "C" of Table A or JETS program calculation) on Figure 4.
<b>Standard:</b>	Operator will plot each individual Recirc Loop "A" Jet Pump % deviation value from column "C" of Table A on Figure 4.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> ____
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.8a</b> <b>Critical: N</b>	Perform the following evaluation: a. Are all of the points plotted on Figure 4 on or between the lines of the allowable band?
<b>Standard:</b>	<b>Operator will select answer "NO."</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>STP 7.2.8c</b> <b>Critical: N</b>	If the answer to Step 7.2.8.a is NO <u>and</u> Recirc Pump speed is greater than or equal to ( $\geq$ ) 60% of rated, immediately notify the CRS. Then, "N/A" Steps 7.2.8.b, 7.2.8.d, and 7.2.8.e.
<b>Standard:</b>	<b>Operator will immediately notify the CRS and "N/A" Steps 7.2.8.b, 7.2.8.d, and 7.2.8.e.</b>
<b>Evaluator Cue:</b>	<b>When the Operator informs the CRS, acknowledge the report.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY ____</b>
<b>Comments:</b>	

**Terminating Cues:** When the operator reports that multiple Jet Pumps are out of specification, inform the candidate that the JPM is complete.

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_





**.2.12-05, Perform STP 3.4.2-01, DAILY JET PUMP OPERABILITY  
TEST [50% Power, JP11/JP12 Failure], Rev. 0**

**JPM**  
Page 13 of  
16

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE: ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES  
CLEANED, AS APPROPRIATE.**

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

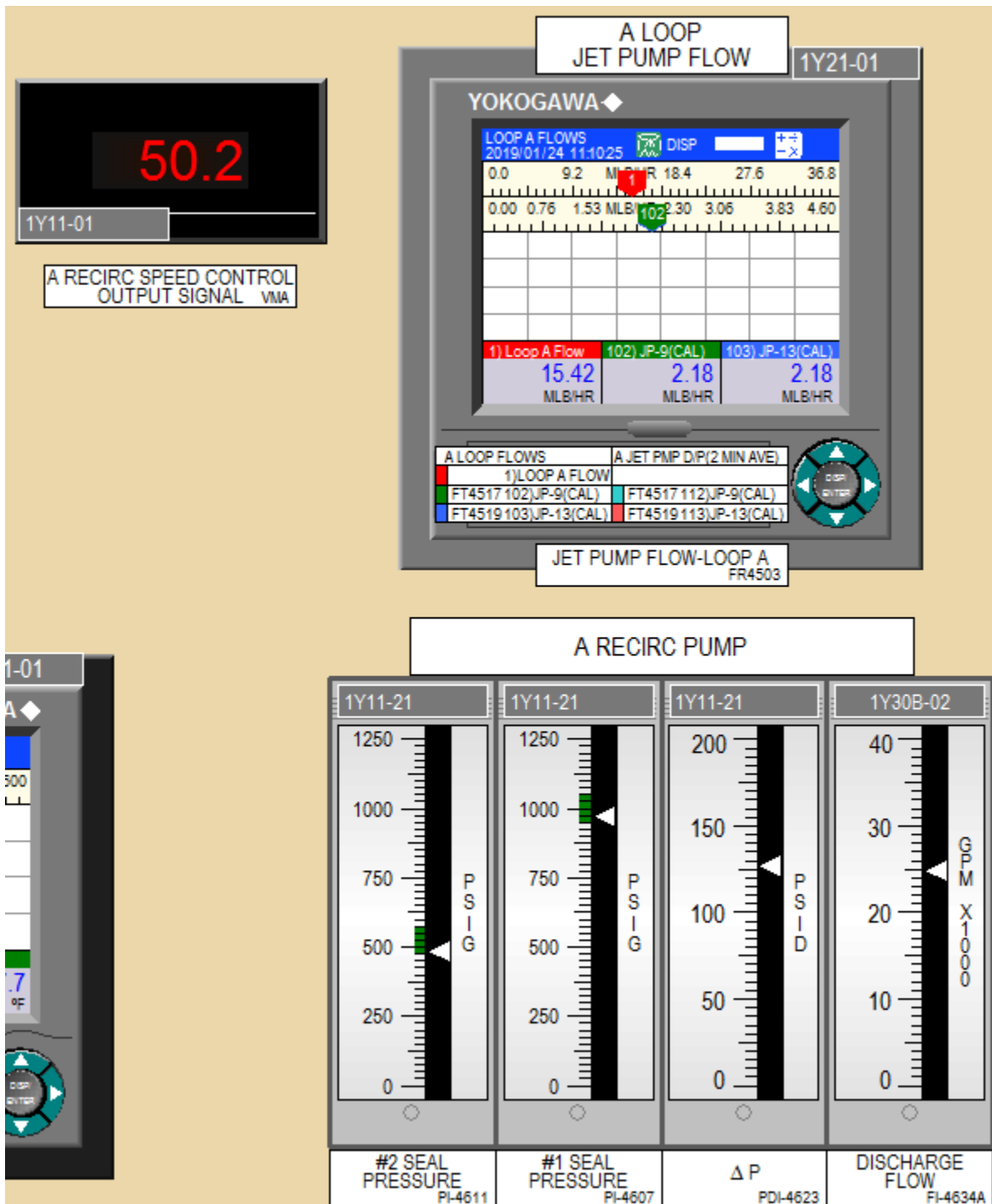
- The plant is operating at 50% rated thermal power
- Another operator was performing STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST; but he was called away for other plant issues
- STP 3.4.2-01, Section 7.1 was completed SAT
- The JETS program is unavailable on the VAX computer

### • INITIATING CUES (IF APPLICABLE):

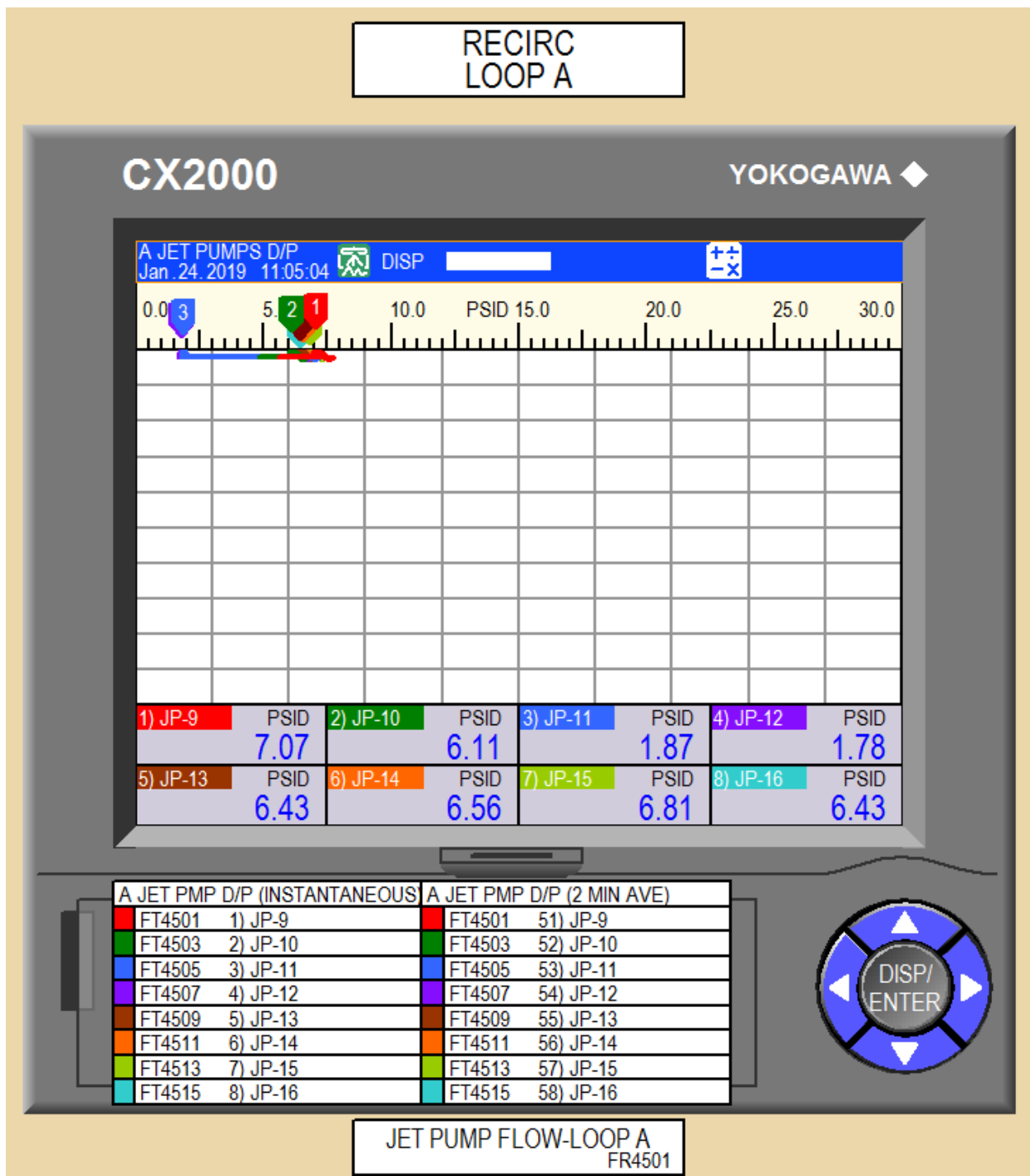
- The Control Room Supervisor directs you to continue with STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST, continuing with Section 7.2

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

1C04 "A" Recirculation Pump Indications



1C38 Recorder FR-4501 Jet Pump Flow – Loop A “2 MIN AVE” Screen



# JOB PERFORMANCE MEASURE

**JPM TITLE:** AOP 913 Immediate Actions – Fire in HPCI Room

**JPM NUMBER:** 2.4.25-01 **REV.** 0

**TASK NUMBER(S) / TASK TITLE(S):** 94.25/  
Respond to a FIRE Condition

**K/A NUMBERS:** G2.4.25 **K/A VALUE:** 3.3 / 3.7

**Justification (FOR K/A VALUES <3.0):** N/A

**TASK APPLICABILITY:**

☒ RO ☒ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☒ Other: ☐  
Lab: ☐

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	_____	_____
	Instructor/Developer	Date
<b>Reviewed by:</b>	_____	_____
	Instructor (Instructional Review)	Date
<b>Validated by:</b>	_____	_____
	SME (Technical Review)	Date
<b>Approved by:</b>	_____	_____
	Training Supervision	Date
<b>Approved by:</b>	_____	_____
	Training Program Owner	Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None

[illegible]

**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

**SIMULATOR SETUP INSTRUCTIONS:**

1. This JPM can be performed with any IC
2. Insert simulator malfunctions per the table below

**SIMULATOR MALFUNCTIONS:**

Time	Malf. No	Malfunction Title	ET	Delay	Ramp	Initial Value	Final Value
SETUP	AN1C40(14)	1C40 (C-02) HPCI ROOM DELUGE NO. 2 INITIATED				Crywolf	ON
SETUP	AN1C40(59)	1C40 (J-05) ELECTRIC FIRE PUMP 1P 48 RUNNING				Crywolf	ON

**SIMULATOR OVERRIDES:** NONE

**SIMULATOR REMOTE FUNCTIONS:** NONE

**Required Materials:**

- ARP 1C40 (C-2), HPCI ROOM DELUGE NO. 2 INITIATED
- AOP 913, Fire

**General References:**

- ARP 1C40 (C-2), HPCI ROOM DELUGE NO. 2 INITIATED, Rev. 77
- AOP 913, Fire, Rev.

**Task Standards:**

- Determine that 1C40 (C-2), HPCI ROOM DELUGE NO. 2 INITIATED, is in alarm
- Depress the fire alarm pushbutton and perform a plant page announcement
- Repeat Site Fire alarm and page announcement



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 an on shift Operator who is **NOT** assigned as the Fire Brigade Leader

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor has directed you to respond to the alarm at 1C40, Fire Protection

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

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.

<b>Performance Step:</b> <b>1C40 Annunciator Alarm</b> <b>Critical: Y</b>	Determine which annunciator alarm(s) is(are) in alarm at 1C40.
<b>Standard:</b>	Operator will determine that 1C40 (C-2), HPCI ROOM DELUGE NO. 2 INITIATED, is in alarm.
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>ARP1C40(C-2), NOTE</b> <b>Critical: N</b>	<b>NOTE</b> If the cause of the fire alarm is known to not be due to a fire (i.e., an expected alarm), activation of the DAEC Fire Brigade is not required.
<b>Standard:</b>	Operator will placekeep NOTE.
<b>Performance:</b>	SATISFACTORY _____ UNSATISFACTORY _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>ARP1C40(C-2), 3.1</b> <b>Critical: Y</b>	Immediately activate DAEC Fire Brigade by sounding Site Fire Alarm and making the appropriate announcement over the Plant Page.
<b>Standard:</b>	<b>Operator will immediately activate DAEC Fire Brigade by sounding Site Fire Alarm and making the appropriate announcement over the Plant Page.</b>
<b>Evaluator Cue:</b>	<b>After the Operator determines that immediate activation of the DAEC Fire Brigade is required, REPORT, <u>“Entering AOP 913, Fire, I am assigning you the immediate actions of AOP 913, make the announcement.”</u></b>  <b>Hand copy of AOP 913 to the Operator.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, NOTE</b> <b>Critical: N</b>	<b>NOTE</b> If the cause is due to known maintenance, welding, grinding, and is known not to be a fire, then the Fire Brigade need not be activated.
<b>Standard:</b>	<b>Operator will placekeep NOTE.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 1</b> <b>Critical: N</b>	Determine location of the fire by reviewing 1C40 and 1C40A annunciators, 1C40B alarm messages and zone indicating units (ZIU) alarms.
<b>Standard:</b>	<b>Operator will placekeep this step.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 2</b> <b>Critical: N</b>	<b>IF</b> the fire alarm is the result of a smoke alarm or a trouble alarm, <b>THEN</b> send an operator to the scene to determine the extent of the fire.
<b>Standard:</b>	Operator will placekeep step with “N/A.”
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 3.a</b> <b>Critical: Y</b>	<p><b>IF</b> any of the following conditions exist, <b>THEN</b> activate the fire brigade:  The alarm window has a RED Lens.</p> <ul style="list-style-type: none"> <li>• A report of a visible fire.</li> <li>• A report of smoke that in the judgment of the CRS requires fire brigade response.</li> <li>• A fire alarm not attributed to other conditions (examples include a team leak, overheating, indicator failure, etc) in conjunction with the following: <ul style="list-style-type: none"> <li>• Sprinkler/deluge initiation</li> <li>• Any fire pump(s) auto starting</li> </ul> </li> </ul> <p>Activate the DAEC Fire Brigade by sounding the site fire alarm and making the following announcement over the plant page:</p> <p>There are indications of a fire in the _____. Fire brigade members respond to the Fire Brigade Room immediately.</p>
<b>Standard:</b>	<p><b>Operator will:</b></p> <ul style="list-style-type: none"> <li>• <b>Depress the fire alarm pushbutton</b></li> <li>• <b>Make the following announcement using an available plant page handset, “There are indications of a fire in the HPCI Room. Fire brigade members respond to the Fire Brigade Room immediately.”</b></li> </ul>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 3.b</b> <b>Critical: Y</b>	Repeat Site Fire alarm and page announcement.
<b>Standard:</b>	<p><b>Operator will:</b></p> <ul style="list-style-type: none"> <li>• <b>Depress the fire alarm pushbutton</b></li> <li>• <b>Make the following announcement using an available plant page handset, “There are indications of a fire in the HPCI Room. Fire brigade members respond to the Fire Brigade Room immediately.”</b></li> </ul>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 3.c</b> <b>Critical: N</b>	<p>Activate the DAEC Maintenance Fire Brigade pagers by sending the following email to: 3194900080@pager.connectingyou.com</p> <p>There are indications of a fire in the _____. Fire brigade members respond to the Fire Brigade Room immediately.</p>
<b>Standard:</b>	<b>Operator will placekeep this step.</b>
<b>Evaluator Cue:</b>	<b>When the Operator reviews the action of this step, REPORT, <u>“The STA has completed this step.”</u></b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 4</b> <b>Critical: N</b>	<p><b>IF</b> the fire is in the Control Room, Cable Spreading Room, Control Bldg. HVAC Area, or Back Panel Area, <b>THEN</b> enter AOP 915 Shutdown Outside Control Room and execute concurrently with this procedure.</p>
<b>Standard:</b>	<b>Operator will placekeep with an “N/A.”</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 5</b> <b>Critical: N</b>	<p><b>IF</b> the Fire is in Control Room HVAC Room <b>THEN</b> open V-33-220, Sprinkler System #12 Shutoff (TB, 757' North Open Area, East of Feedwater Reg. Valves).</p>
<b>Standard:</b>	<b>Operator will placekeep with an “N/A.”</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 6</b> <b>Critical: N</b>	<b>IF</b> water is needed to extinguish <b>OR IF</b> fire is outside the protected area, <b>THEN</b> request offsite fire assistance per the OFFSITE ASSISTANCE section and request additional Fire Brigade support.
<b>Standard:</b>	<b>Operator will placekeep this step.</b>
<b>Evaluator Cue:</b>	<b>When the Operator reviews the action of this step, REPORT, “<u>The STA is assessing the request for OFFSITE ASSISTANCE.</u>”</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 7</b> <b>Critical: N</b>	<b>IF</b> fire water is required for firefighting, <b>THEN</b> verify 1P-48 Electric Fire Pump or 1P-49 Diesel Fire Pump running. Start pumps as required from 1C40.
<b>Standard:</b>	<b>Operator will verify 1P-48, Electric Fire Pump, is running.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:</b> <b>AOP 913, Step 8</b> <b>Critical: N</b>	<b>IF</b> the fire is in 1A3, 1A4, Battery Room 1D1, Battery Room 1D2, or the chase above the North Turbine Building to Reactor Building airlock, <b>THEN</b> perform the actions of “Control Room Smoke Mitigation.”
<b>Standard:</b>	<b>Operator will placekeep with an “N/A.”</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: AOP 913, Step 9 Critical: N</b>	<b>IF</b> the fire is in the Reactor Building, Radwaste Building, Machine Shop or Offgas Retention building, <b>THEN</b> consider evacuating personnel from the Torus area due to smoke exhausting into that area.
<b>Standard:</b>	<b>Operator will placekeep with an “N/A.”</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

**Terminating Cues:**      **When the Operator has completed the immediate actions of AOP 913.**

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_





2.4.25-01, AOP 913 Immediate Actions – Fire in HPCI Room,  
Rev. 0

**JPM**  
Page 13 of  
14

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE: ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES  
CLEANED, AS APPROPRIATE.**

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

- You are an on shift Operator who is **NOT** assigned as the Fire Brigade Leader

### INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor has directed you to respond to the alarm at 1C40, Fire Protection

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Operator License Status Verification

**JPM NUMBER:** 2.1.4-03 **REV.**

**TASK NUMBER(S) / TASK TITLE(S):** 96.05 / Conduct Plant Operations in accordance with Administrative Procedures

**K/A NUMBERS:** 2.1.4 **K/A VALUE:** 3.3/3.8

**Justification (FOR K/A VALUES <3.0):**

**TASK APPLICABILITY:**

☐ RO ☒ SRO ☐ STA ☐ Non-Lic ☒ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

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

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	_____ Instructor/Developer	_____ Date
<b>Reviewed by:</b>	_____ Instructor (Instructional Review)	_____ Date
<b>Validated by:</b>	_____ SME (Technical Review)	_____ Date
<b>Approved by:</b>	_____ Training Supervision	_____ Date
<b>Approved by:</b>	_____ Training Program Owner	_____ Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None



**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

**SIMULATOR SETUP INSTRUCTIONS:**

1. None
2. None

**SIMULATOR MALFUNCTIONS:**

None

**SIMULATOR OVERRIDES:**

None

**SIMULATOR REMOTE FUNCTIONS:**

None

**Required Materials:** ODO-009

**General References:** ACP 1410.1 Operator Working Standards

**Task Standards:** SRO determines that they CANNOT count the WCCSRO and STA watches toward minimum 5  
SRO determines that they have not completed the required 5 watches per quarter and is no longer active

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

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

## INITIAL CONDITIONS:

- You are a Licensed Senior Reactor Operator
- You are qualified to stand the following watches:
  - Shift Manager (OSM)
  - Control Room Supervisor (CRS)
  - Shift Technical Advisor (STA)
  - Work Control Center Supervisor (WCC SRO)
- You are **current** in Licensed Operator Continuing Training and your medical status is **acceptable**.
- The dates, shift times and positions are provided for the watches you stood during the 2<sup>nd</sup> quarter.

## INITIATING CUES (IF APPLICABLE):

- Determine if you have met the requirements for maintaining your SRO license active.

### Date Shift Position

Date	Shift	Position
1/1	Days 0700-1900	WCC-SRO
1/2	Days 0700-1900	WCC-SRO
1/3	Days 0700-1900	WCC-SRO
1/6	Nights 1900-0700	OSM
1/7	Nights 1900-0700	WCC-SRO
1/8	Nights 1900-0700	WCC-SRO
1/9	Nights 1900-0700	WCC-SRO
2/2	Days 0700-1900	WCC-SRO
2/3	Days 0700-1900	OSM
2/4	Days 0700-1900	WCC-SRO
2/5	Relief 0700-1500	CRS
2/6	Days 0700-1900	WCC-SRO
2/10	Nights 1900-0700	WCC-SRO
2/12	Nights 1900-0700	WCC-SRO
2/13	Nights 1900-0700	WCC-SRO
2/20	Days 0700-1900	OSM
2/21	Days 0700-1900	OSM
2/22	Days 0700-1900	WCC-SRO
2/23	Days 0700-1900	WCC-SRO
3/4	Days 0700-1900	WCC-SRO
3/5	Days 0700-1500	STA
3/6	Days 0700-1900	WCC-SRO
3/24	Nights 1900-0700	WCC-SRO
3/30	Nights 1900-0700	WCC-SRO

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

**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.

<b>Performance Step: 1</b> <b>Critical: N</b>	Locate and review controlled copy of Procedure ODI-009 (NSPEO, RO, SRO, and STA Qualification Requirements).
<b>Standard:</b>	Obtains and reviews correct procedure.
<b>Evaluator Cue:</b>	If controlled copy is not available for the performance of the JPM, then provide the examinee with a copy of ODI-009.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	



<b>Performance Step: 2</b> <b>Critical: N</b>	Procedure Step 5.2
<b>Standard:</b>	<p>SRO Qualifications shall consist of the following:</p> <ul style="list-style-type: none"> <li>○ Completion of the DAEC SRO Training Program</li> <li>○ Have a current, valid NRC issued SRO License for DAEC</li> <li>○ Current in LOCT</li> <li>○ Participates in FFD</li> <li>○ Current in Medical requirement for position</li> </ul> <p>• Reviews the following requirements from procedure:</p>
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 3</b> <b>Critical: Y</b>	Procedure step 5.7
<b>Standard:</b>	<p>DAEC Technical Specifications requires that when the reactor is Modes 1, 2 or 3 the minimum staffing for an operating crew shall consist of an Operations Shift Manager (SRO) and a Control Room Supervisor (CRS)</p> <p>Determines that <b>ONLY</b> the <b>OSM</b> and <b>CRS</b> positions can be counted toward maintenance of the active NRC SRO License. The WCC SRO and STA watches would not count toward their SRO License maintenance</p>
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 4</b> <b>Critical: Y</b>	Procedure Step 5.7
<b>Standard:</b>	<p>To maintain an active NRC license active requires the following: For SROs to be considered active, they shall stand operating crew watches in a Tech Spec or administratively required position identified a minimum of 5-12 hour shifts per quarter and less than 4 months shall transpire between standing watches.</p> <ul style="list-style-type: none"> <li>○ Determines that a total of five watches in the required position of SM or CRS were performed; however recognizes that the <b>Feb. 5th watch was only an eight hour shift</b></li> <li>○ Determines that the minimum number of five twelve hour shifts in a required position has <b>NOT</b> been met to maintain an active NRC license</li> </ul>
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

**Terminating Cues:** Once the determination has been made whether the minimum number of watches has **been / NOT been** met then state JPM complete.

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



## 2.1.4-03 Operator License Status Verification, Rev. 0

**JPM**  
Page 9 of 10

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE:** ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.

**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.*

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

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

**INITIAL CONDITIONS:**

- You are a Licensed Senior Reactor Operator
- You are qualified to stand the following watches:
  - Shift Manager (OSM)
  - Control Room Supervisor (CRS)
  - Shift Technical Advisor (STA)
  - Work Control Center Supervisor (WCC SRO)
- You are current in Licensed Operator Continuing Training and your medical status is acceptable.
- The dates, shift times and positions are provided for the watches you stood during the 2<sup>nd</sup> quarter.

**INITIATING CUES (IF APPLICABLE):**

- Determine if you have met the requirements for maintaining your SRO license active.

**Date Shift Position**

Date	Shift	Position
1/1	Days 0700-1900	WCC-SRO
1/2	Days 0700-1900	WCC-SRO
1/3	Days 0700-1900	WCC-SRO
1/6	Nights 1900-0700	OSM
1/7	Nights 1900-0700	WCC-SRO
1/8	Nights 1900-0700	WCC-SRO
1/9	Nights 1900-0700	WCC-SRO
2/2	Days 0700-1900	WCC-SRO
2/3	Days 0700-1900	OSM
2/4	Days 0700-1900	WCC-SRO
2/5	Relief 0700-1500	CRS
2/6	Days 0700-1900	WCC-SRO
2/10	Nights 1900-0700	WCC-SRO
2/12	Nights 1900-0700	WCC-SRO
2/13	Nights 1900-0700	WCC-SRO
2/20	Days 0700-1900	OSM
2/21	Days 0700-1900	OSM
2/22	Days 0700-1900	WCC-SRO
2/23	Days 0700-1900	WCC-SRO
3/4	Days 0700-1900	WCC-SRO
3/5	Days 0700-1500	STA
3/6	Days 0700-1900	WCC-SRO
3/24	Nights 1900-0700	WCC-SRO
3/30	Nights 1900-0700	WCC-SRO

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Determine Reportability – Unusual Event and Plant Shutdown required by T.S.

**JPM NUMBER:** 2.1.18-02 **REV** 4

**TASK NUMBER(S) / TASK TITLE(S):** 1.03  
DETERMINE REPORTABILITY

**K/A NUMBERS:** 2.1.18 (GENERIC) **K/A VALUE:** 3.8

**Justification (FOR K/A VALUES <3.0):**

**TASK APPLICABILITY:**

☐ RO ☒ SRO ☒ STA ☐ Non-Lic ☒ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☒ Other: ☒ Classroom  
Lab: ☐

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path [NRC]: NA

Alternate Path [INPO]: NA

<b>Developed by:</b>	_____ Instructor/Developer	_____ Date
<b>Reviewed by:</b>	_____ Instructor (Instructional Review)	_____ Date
<b>Validated by:</b>	_____ SME (Technical Review)	_____ Date
<b>Approved by:</b>	_____ Training Supervision	_____ Date
<b>Approved by:</b>	_____ Training Program Owner	_____ Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None

[illegible]

**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

SIMULATOR SETUP INSTRUCTIONS: None

SIMULATOR MALFUNCTIONS: None

SIMULATOR OVERRIDES: None

SIMULATOR REMOTE FUNCTIONS: None

**Required Materials:**

1. LI-AA-102-1001, Regulatory Reporting, current revision
2. NUREG 1022

**General References:**

1. LI-AA-102-1001, Regulatory Reporting, Rev. 25
2. NUREG 1022, Rev.3
3. Event #47129, Nine Mile Point Unusual Event

**Task Standards:**

1. Determines that this event requires **only** the following INEs:
  - 1 Hour Report § 50.72(a)(1)(i) “The declaration of any of the Emergency Classes specified in the licensee’s approved Emergency Plan.”
  - 4 Hour Report § 50.72(b)(2)(i) “The initiation of any nuclear plant shutdown required by the plant’s Technical Specifications.”



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:**

- The plant was at 100% power.
- Four hours ago, the operating crew entered T.S. action statement 3.4.4 Condition A due to unidentified leakage greater 5 gpm.
- An Unusual Event was declared 10 minutes ago after unidentified leakage rose to 28 gpm.
- At this time, the crew entered T.S. action statement 3.4.4 Condition C because the required action and associated completion time was not met.
- Plant shutdown has commenced.
- There has been no ECCS actuation.
- State and Local authorities have been notified of the Unusual Event per EPIP 1.2.
- The Shift Communicator is performing notifications for the Unusual Event.

**INITIATING CUES (IF APPLICABLE):**

- You are the Shift Manager.
- Determine **ALL** of the Immediate Notification Event (INE) time requirements for this event.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

## JPM PERFORMANCE INFORMATION

**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.

<b>Performance Step: 1</b> <b>Critical <u>Y</u></b>  LI-AA-102-1001 Attachment 1	Use LI-AA-102-1001 to determine the Immediate Notification Event (INE) time requirement for the event.
<b>Standard:</b>	The candidate determines that the following Immediate Notification Event (INE) time requirements apply:  For EAL Declaration: <ul style="list-style-type: none"> <li><b>1 Hour Report § 50.72(a)(1)(i)</b> “The declaration of any of the Emergency Classes specified in the licensee’s approved Emergency Plan.”</li> </ul>
<b>Evaluator Cue:</b>	<b>If the candidate provides information for other LER requirements, Cue the candidate that another person will complete the other items.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: Critical</b>	
<b>Performance Step: 2 Critical <u>Y</u></b>  LI-AA-102-1001 Attachment 1	Use LI-AA-102-1001 to determine any additional Immediate Notification Event (INE) time requirements for the event.
<b>Standard:</b>	<p>The candidate determines that the following Immediate Notification Event (INE) time requirements apply:</p> <p>For the initiation of a plant shutdown required by Tech Specs:</p> <ul style="list-style-type: none"> <li>• <b>4 Hour Report § 50.72(b)(2)(i)</b> “The initiation of any nuclear plant shutdown required by the plant’s Technical Specifications.”</li> </ul>
<b>Evaluator Cue:</b>	<b>If the candidate provides information for other LER requirements, Cue the candidate that another person will complete the other LER items.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	<p><b>An INE is an incident that requires a 1, 4, 8, or 24 hour telephone notification. (See procedure definitions)</b></p> <p><b>There are other LER requirements associated with this event, and the candidate may provide information on those also – those LER items are NOT critical to this JPM.</b></p>

**Terminating Cues:** When the candidate makes his determination and reports it to the evaluator, inform the candidate the JPM is complete.

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



**2.1.18-02, Determine Reportability – Unusual Event and Plant Shutdown required by T.S., Rev. 4**

**JPM**  
Page 8 of 9

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE:** ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The plant was at 100% power.
- Four hours ago, the operating crew entered T.S. action statement 3.4.4 Condition A due to unidentified leakage greater 5 gpm.
- An Unusual Event was declared 10 minutes ago after unidentified leakage rose to 28 gpm.
- At this time, the crew entered T.S. action statement 3.4.4 Condition C because the required action and associated completion time was not met.
- Plant shutdown has commenced.
- There has been no ECCS actuation.
- State and Local authorities have been notified of the Unusual Event per EPIP 1.2.
- The Shift Communicator is performing notifications for the Unusual Event.

### INITIATING CUES (IF APPLICABLE):

- You are the Shift Manager.
- Determine **ALL** of the Immediate Notification Event (INE) time requirements for this event.

# JOB PERFORMANCE MEASURE

**JPM TITLE:** Review a Work Order for closure

**JPM NUMBER:** 2.2.19-01

**REV.** 2

**TASK NUMBER(S) / TASK TITLE(S):** 1.13 Ensure plant activities are performed in accordance with Work Management Processes, Procedures and Policies

**K/A NUMBERS:** Generic 2.2.19

**K/A VALUE:** 3.4

**Justification (FOR K/A VALUES <3.0):**

**TASK APPLICABILITY:**

☐ RO ☒ SRO ☒ STA ☐ Non-Lic ☒ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

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

Simulator: ☒ Other: ☒

Lab: ☐

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

**Developed by:** \_\_\_\_\_  
Instructor/Developer Date

**Reviewed by:** \_\_\_\_\_  
Instructor (Instructional Review) Date

**Validated by:** \_\_\_\_\_  
SME (Technical Review) Date

**Approved by:** \_\_\_\_\_  
Training Supervision Date

**Approved by:** \_\_\_\_\_  
Training Program Owner Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None





**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

SIMULATOR SETUP INSTRUCTIONS: NONE

**Required Materials:**

1. Marked up copy of Work Order PM TASK 01(PMRQ 21005-5).
2. Marked up copy of STP 3.5.1-05

**General References:**

- MD-062, Rev. 15
- STP 3.5.1-05 Rev. 73

**Task Standards:**

- Determines that there are no initials for the QC step 3.
- Using the STP, determines that the MO-2239 did **not** stroke within the ASME limits in the CLOSE direction.
- Determine that he will not sign the WO as it has not been completed satisfactorily,  
OR  
Based on the unsatisfactory stroking of the MO, he will say that he will sign the WO off and write a new WRC to fix the problem. The new WRC number should be written on the closed out WO.

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.
- Work Order PM TASK 01(PMRQ 21005-5) is ready for review.

**INITIATING CUES (IF APPLICABLE):**

- You are to review Work Order PM TASK 01(PMRQ 21005-5) for closure.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

### JPM PERFORMANCE INFORMATION

Start Time: \_\_\_\_\_

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

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

Performance Step:1 Critical Y	3. INSPECT per procedure VALVOP-L200-08. • Work this step with the electrical and mechanical steps as needed for job completion
Standard:	Review step for completion
Evaluator Cue:	Candidate should note that this was not signed off as required.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

<b>Performance Step:2 Critical Y</b>	<b>8. STROKE the valve per the applicable steps in STP 3.5.1-05 or 3.5.1-06 per the CRS direction and RECORD the stroke times in this work task. If sat, REMOVE entries from Inop TS Equip Log.</b>
<b>Standard:</b>	<b>Candidate should review applicable portions of STP 3.5.1-05</b>
<b>Evaluator Cue:</b>	<b>Candidate should determine that the ASME stroke time for MO-2239 is not met (ASME time is 12.1 seconds. Documented time is 12.5 seconds.)</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step:3 Critical Y</b>	<b>PM TASK 01(PMRQ 21005-5)</b>
<b>Standard:</b>	<b>Candidate review WO in its entirety.</b>
<b>Evaluator Cue:</b>	<b>Candidate determines that stroke time testing was inadequate and will not sign of the WO due to incompleteness or sign WO and state that another needs to be performed to address issues.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

**Terminating Cues:**      **The JPM is complete when the candidate has reviewed the WO IAW MD-062 and STP 3.5.1-05, and it is determined that a WO is not complete and MO-2239 did not meet its ASME close times.**

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



2.2.19-01, Review a Work Order for closure, Rev.2

**JPM**  
Page 8 of 9

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE:** ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

- You are the Shift Manager.
- Work Order PM TASK 01(PMRQ 21005-5) is ready for review.

### INITIATING CUES (IF APPLICABLE):

- You are to review Work Order PM TASK 01(PMRQ 21005-5) for closure.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

# JOB PERFORMANCE MEASURE

**JPM TITLE:** DECLARE AN EMERGENCY ACTION LEVEL AND FILL OUT NOTE-05

**JPM NUMBER:** 2.4.41-18 **REV.** 0

**TASK NUMBER(S) / TASK TITLE(S):** 3.01  
IMPLEMENT THE EMERGENCY PLAN (SENIOR REACTOR OPERATOR)

**K/A NUMBERS:** 2.4.41 **K/A VALUE:** 4.6

**Justification (FOR K/A VALUES <3.0):** N/A

**TASK APPLICABILITY:**

☐ RO ☒ SRO ☐ STA ☐ Non-Lic ☒ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

**EVALUATION LOCATION:** In-Plant: ☐ Control Room: ☐  
Simulator: ☒ Other: ☒  
Lab: ☐

Time for Completion: 20 Minutes Time Critical: YES

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

<b>Developed by:</b>	<b>Stan Vick</b>	
	Instructor/Developer	Date
<b>Reviewed by:</b>		
	Instructor (Instructional Review)	Date
<b>Validated by:</b>		
	SME (Technical Review)	Date
<b>Approved by:</b>		
	Training Supervision	Date
<b>Approved by:</b>		
	Training Program Owner	Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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"/>
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4. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None





**2.4.41-18, DECLARE AN EMERGENCY ACTION LEVEL  
AND FILL OUT NOTE-05, Rev. 0**

**JPM**  
Page 3 of 16

**UPDATE LOG:** Indicate in the following table any minor changes or major revisions (as defined in TR-AA-230-1003) made to the material after initial approval. Or use separate Update Log form TR-AA-230-1003-F16.

#	DESCRIPTION OF CHANGE	REASON FOR CHANGE	AR/TWR#	PREPARER	DATE
				SUPERVISOR	DATE
0	New for 2015 Annual Operating Exam	New for 2015 Annual Operating Exam	2030781	See Cover	N/A
				See Cover	N/A

**SIMULATOR or CLASSROOM SET-UP:**

- Stage both EPIP Form EAL-01 AND EPIP Form EAL-02 (i.e Hot and Cold Boards) for use

**Required Materials:**

1. EPIP 1.1, Determination of Emergency Action Levels
2. EPIP 1.2, Notifications
3. EPIP Form EAL-01, EAL Matrix – Hot Modes
4. EPIP Form EAL-02, EAL Matrix – Cold Modes
5. EPIP Form NOTE-05, DAEC Emergency Action Level Notification Form

**General References:**

1. EPIP 1.1, Determination of Emergency Action Levels, Rev. 30
2. EPIP 1.2, Notifications, Rev. 50
3. EPIP Form EAL-01, EAL Matrix – Hot Modes, Revision 11
4. EPIP Form EAL-02, EAL Matrix – Cold Modes, Revision 9
5. EPIP Form NOTE-05, DAEC Emergency Action Level Notification Form, Rev. 19

**Task Standards:**

- The following critical tasks are for the declaration.
  - Within 15 minutes of being handed the initial conditions, determine that the EAL is an **CU4.1**
- The following critical tasks are for the notification.
  - Within 15 minutes of declaring an **CU4.1** and correctly completing EPIP FORM NOTE-05 for state and local notifications.

NOTE: Any information in the bold-bordered boxes of the form is required to be accurate per NEI99-02 guidance and is used to determine performance per NRC DEP-PI.

- Box 4 - SRO marks **Drill**.
- Box 5 - SRO marks **Unusual Event**.
- Box 6 - SRO enters TIME and DATE (Today's date) for the EAL CLASSIFIED, Print **CU4.1** in the blanks for the EAL and circles **C** in the Category, circles **U** in the Classification, and circles **4.1** in the Sequence.
- Box 11 - SRO writes in **12** mph.
- Box 12 - SRO writes in **317** degrees.
- Box 14 - SRO checks **Has Not Occurred**
- Box 18 - SRO checks **N/A**
- Box 19 – SRO checks **Unusual Event**
- When filled out, the SRO submits the EPIP FORM NOTE-05 to the SM to sign within the 15 minutes from the declaration of the CU4.1.
- The SRO will contact Linn, Benton Counties and the state via the ALL CALL phone within 15 minutes of the declaration.

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:**

- DAEC is shutdown and was in Mode 4 with the following conditions:
  - Coolant temperature 185°F
  - Shutdown Cooling in service
  - RPV water level is 200 inches, the crew is preparing to raise level to the flange
  - Secondary Containment is OPERABLE
  - The wind direction is from 317 degrees at 50 meters
  - The wind speed is at 12 mph at 50 meters
- Then, an unplanned loss of "B" RPS resulted in Shutdown Cooling (Group 4) isolation
  - Coolant temperature is now 215°F and rising slowly
  - "B" RPS has been restored
  - Shutdown Cooling will be running and reducing coolant temperature within 35 minutes of the loss
- Drywell pressure, temperature and all plant radiation levels are normal

**INITIATING CUES:**

- You are an extra SRO supporting the crew.
- Based on the given plant conditions, you are to determine if an EAL threshold has been reached and if it has,
  - **Declare the Emergency Action Level**
  - **AND**
  - **Complete NOTE-05**
  - **AND**
  - **Make the required notifications**
- The STA will fill out NOTE -01 and make the site and call-out notifications.

- This JPM is **TIME CRITICAL**.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

**Evaluator: \_\_\_\_\_ Mark time when turnover is complete.**  
**(This is for the 1<sup>st</sup> Time Critical step.)**

### JPM PERFORMANCE INFORMATION

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.

<b>Performance Step: 1</b> <b>Critical Y</b>	The SRO will determine that the EAL for the given plant conditions is <b>CU4.1</b>
<b>Standard:</b> EAL-02, CU4.1	Within 15 minutes of acknowledgement of the task, determines that the EAL is <b>CU4.1</b>
<b>Evaluator NOTE:</b>	<b>TIME CRITICAL – Operator must make the EAL call within 15 minutes of the turnover.</b>
<b>Evaluator Cue:</b>	<ul style="list-style-type: none"> <li>• Whichever EAL the Operator recommends, <b>AGREE</b> with him, <b>THEN</b> mark the time that the operator makes his declaration _____.</li> <li>• Hand the operator an exam copy of NOTE-05 (attached)</li> <li>• Cue the operator that he will fill out NOTE-05 and make the notifications</li> <li>• Cue the operator that you will act as the OSM to sign NOTE-05</li> </ul>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 2</b> <b>Critical Y</b>	4. STATUS: <input type="checkbox"/> ACTUAL <input type="checkbox"/> DRILL
<b>Standard:</b> EPIP NOTE-05 Block 4	SRO marks <input checked="" type="checkbox"/> DRILL
<b>Evaluator NOTE:</b>	<b>Boxes 1, 2 and 3 are marked during the notification process</b>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 3</b> <b>Critical Y</b>	5. IF an EAL is being declared, THEN provide the following message to the offsite agencies, otherwise: <input type="checkbox"/> N/A (and go to step 7) "This is the Duane Arnold Energy Center. We have declared a(n) _____ **, standby for additional information." **State one of the following: <input type="checkbox"/> Unusual Event <input type="checkbox"/> Alert <input type="checkbox"/> Site Area Emergency <input type="checkbox"/> General Emergency
<b>Standard:</b> EPIP NOTE-05 Block 5	SRO marks <input checked="" type="checkbox"/> Unusual Event
<b>Evaluator NOTE:</b>	<b>Message confirmation check marks are marked during the notification process</b>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 4 Critical Y</b>	7. Time declared, Category, Classification and Sequence
<b>Standard:</b> EPIP NOTE-05 Block 7	SRO writes in “ <b>CU4.1</b> ” and corresponding date and time of declaration. Circle the letters corresponding for the Category, Classification, and Sequence. <p align="center"><b>C                      U                      4.1</b></p>
<b>Evaluator NOTE:</b>	<b>It is not necessary to circle the box with a period symbol as this is merely a place-keeper to remind the communicator that EALs are in the number format X.X. However, if the period symbol is circled it will not count against the accuracy requirement of the box.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 5 Critical N</b>	8. Plant Status: [ ] At Power [ ] Shutdown
<b>Standard:</b> EPIP NOTE-05 Block 8	SRO marks [X] Shutdown
<b>Evaluator NOTE:</b>	<b>This determination is meant to occur upon declaration of the event emergency level</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 6</b> <b>Critical N</b>	9. <input type="checkbox"/> PAR Change Only <input type="checkbox"/> EAL Termination <input type="checkbox"/> Recovery <input type="checkbox"/> N/A
<b>Standard:</b> EPIP NOTE-05 Block 9	SRO marks <input checked="" type="checkbox"/> N/A
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 7</b> <b>Critical N</b>	10. Facility in Command and Control: <input type="checkbox"/> CR x2222 <input type="checkbox"/> TSC x3333 <input type="checkbox"/> EOF x4444
<b>Standard:</b> EPIP NOTE-05 Block 10	SRO marks <input checked="" type="checkbox"/> CR x2222
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 8</b> <b>Critical Y</b>	11. Wind Speed (50m preferred) _____ mph
<b>Standard:</b> EPIP NOTE-05 Block 11	SRO writes in wind speed as <b>12</b> mph
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 9</b> <b>Critical Y</b>	12. Wind Direction (50m preferred) from _____ degrees
<b>Standard:</b> EPIP NOTE-05 Block 12	SRO writes in wind direction as <b>317</b> degrees
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 10</b> <b>Critical N</b>	13. Category "F" EAL declaration only, otherwise: <input type="checkbox"/> N/A
<b>Standard:</b> EPIP NOTE-05 Block 13	SRO marks <input checked="" type="checkbox"/> N/A
<b>Evaluator NOTE:</b>	<b>These items are not critical, but a comment should be made if any are marked.</b>
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	

<b>Performance Step: 11</b> <b>Critical Y</b>	14. Abnormal Release due to the event? <input type="checkbox"/> Has not occurred (go to block 18) <input type="checkbox"/> Has occurred but is terminated (go to block 15) <input type="checkbox"/> Is occurring (go to block 15)
<b>Standard:</b> EPIP NOTE-05 Block 14	SRO marks <input checked="" type="checkbox"/> Has not occurred (go to block 18)
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	



<b>Performance Step: 12</b> <b>Critical N</b>	15. Leave blank 16. Leave blank 17. Leave blank
<b>Standard:</b> EPIP NOTE-05 15, 16 & 17	SRO leaves blocks 15, 16 and 17 blank
<b>Evaluator NOTE:</b>	<b>These items are not critical, but a comment should be made if any are marked.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 13</b> <b>Critical Y</b>	18. Time / Date of PAR Change determination or N/A: Time: _____ Date: _____ [ ] N/A
<b>Standard:</b> EPIP NOTE-05 Block 18	SRO marks [X ] N/A
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 14</b> <b>Critical Y</b>	19. Utility Protective Action Recommendations <u>Unusual Event</u> [ ] A. No actions recommended
<b>Standard:</b> EPIP NOTE-05 Block 19	SRO marks <u>Unusual Event</u> [X] A. No actions recommended
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 15 Critical N</b>	20. Additional Information
<b>Standard:</b> EPIP NOTE-05 Block 20	SRO leaves block 20 blank, may write "none", or may provide a clarifying note.
<b>Evaluator NOTE:</b>	<b>It is not necessary to repeat information from previous blocks</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 16 Critical N</b>	Approval
<b>Standard:</b> EPIP NOTE-05	SRO states that the NOTE-05 is ready for approval.
<b>Evaluator CUE:</b>	<b>Print a name and write a signature, date and time. DO NOT correct anything. Return the NOTE-05 to the SRO and tell him to perform the notification.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 17 Critical N</b>	1. Using the dedicated "All-Call" phone press the "All Call" button
<b>Standard:</b> EPIP NOTE-05 Block 1	SRO picks up the "All Call" phone and presses the "All Call" button– uses alternate numbers
<b>Evaluator CUE:</b>	<b>Have the SRO simulate using the phone and act as each agency contacted. If the SRO presses the "All Call" button respond as "Linn County", initials "LC" then "Benton County" initials "BC" then as "State of Iowa" initials "IA"</b>
<b>Evaluator NOTE:</b>	<b>Write down the time _____ you replied as the first agency. This will be the TIME CRITICAL information required for step 18 below. The 15 minute NRC requirement still applies even if alternate phone numbers are used.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	

<b>Performance Step: 18 Critical Y</b>	2. First offsite agency contacted: Time: _____
<b>Standard:</b> EPIP NOTE-05 Block 2	SRO Documents the time in box 2 the first agency was contacted.
<b>Evaluator NOTE:</b>	<b>The first agency contacted is required to be complete 15 minutes after the event is declared. This initial notification satisfies the time requirement for the NRC DEP-PI.</b>
<b>Performance:</b>	<b>SATISFACTORY _____ UNSATISFACTORY _____</b>
<b>Comments:</b>	<b>Time SRO acknowledged the initial turnover: _____</b> <b>Time recorded for the EAL Declaration: _____</b> <b>Elapsed Time: _____</b> <b>Time recorded for the EAL Declaration: _____</b> <b>Time recorded for notification in block 2: _____</b> <b>Elapsed Time: _____</b> <b>IF both elapsed times are &lt; 15 minutes, then the TIME CRITICAL requirement of this JPM is satisfied.</b>

**Terminating Cues:**      **When the SRO has documented the time the first agency was contacted in Block 2 of the NOTE-05, state that the JPM is complete.**

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



2.4.41-18, DECLARE AN EMERGENCY ACTION LEVEL  
AND FILL OUT NOTE-05, Rev. 0

**JPM**  
Page 15 of 16

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE: ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES  
CLEANED, AS APPROPRIATE.**

**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.*

## TURNOVER SHEET

### INITIAL CONDITIONS:

- DAEC is shutdown and was in Mode 4 with the following conditions:
  - Coolant temperature: 185°F
  - Shutdown Cooling in service
  - RPV water level is 200 inches, the crew is preparing to raise level to the flange
  - Secondary Containment is OPERABLE
  - The wind direction is from 317 degrees at 50 meters
  - The wind speed is at 12 mph at 50 meters
- Then, an unplanned loss of "B" RPS resulted in Shutdown Cooling (Group 4) isolation
  - Coolant temperature is now 215°F and rising slowly
  - "B" RPS has been restored
  - Shutdown Cooling will be running and reducing coolant temperature within 35 minutes of the loss
- Drywell pressure, temperature and all plant radiation levels are normal

### INITIATING CUES:

- You are an extra SRO supporting the crew.
- Based on the given plant conditions, you are to determine if an EAL threshold has been reached and if it has,
  - **Declare the Emergency Action Level**  
**AND**
  - **Complete NOTE-05**  
**AND**
  - **Make the required notifications**
- The STA will fill out NOTE -01 and make the site and call-out notifications.
- This JPM is **TIME CRITICAL**.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

**JPM TITLE:** DETERMINE THE EXTENT OF CORE DAMAGE

**JPM NUMBER:** 4.10.01-2 **REV.** 2

**TASK NUMBER(S) / TASK TITLE(S):** 4.10 / DETERMINE THE EXTENT OF CORE DAMAGE USING PASAP 7.2

**K/A NUMBERS:** **K/A VALUE:**

**Justification (FOR K/A VALUES <3.0):**

**TASK APPLICABILITY:**

☐ RO ☒ SRO ☒ STA ☐ Non-Lic ☐ SRO CERT ☐ OTHER: \_\_\_\_\_

**APPLICABLE METHOD OF TESTING:** Simulate/Walkthrough: ☐ Perform: ☒

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

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path [NRC]: NO

Alternate Path [INPO]: NO

**Developed by:** Todd Morgan 05/18/15  
Instructor/Developer Date

**Reviewed by:** \_\_\_\_\_  
Instructor (Instructional Review) Date

**Validated by:** \_\_\_\_\_  
SME (Technical Review) Date

**Approved by:** \_\_\_\_\_  
Training Supervision Date

**Approved by:** \_\_\_\_\_  
Training Program Owner Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED 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. Do 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 job 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. Is justification provided for tasks with K/A values less than 3.0?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have the performance steps been identified and classified (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. 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"/>
13. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all critical steps supported by procedural guidance? (e.g., if licensing, EP or other groups were needed to determine correct actions, then the answer should be NO.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. If the JPM is to be administered to an LOIT student, has the required knowledge been taught to the individual prior to administering the JPM? TPE does not have to be completed, but the JPM evaluation may not be valid if they have not been taught the required knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Protected Content:** None





**SIMULATOR SET-UP:** *(Only required for simulator JPMs)*

SIMULATOR SETUP INSTRUCTIONS: None

SIMULATOR MALFUNCTIONS: None

SIMULATOR OVERRIDES: None

SIMULATOR REMOTE FUNCTIONS: None

**Required Materials:** PASAP 7.2

**General References:** PASAP 7.2, Rev. 20

**Task Standards:**

1. Obtain a copy of PASAP 7.2.
2. Complete PASAP 7.2.
3. Determine fuel failure extent using figures in PASAP 7.2.
4. Step 5, Candidate determines that the drywell radiation readings of 20,000 R/hr and 19,000 R/hr are below the 5% failed fuel curves and checks both "NO" blocks.
5. Step 6, Candidate determines that the torus radiation readings of 1800 R/hr and 1700 R/hr are above the 5% failed fuel curve and below the 25% failed fuel curve and checks the "YES" block for ">5%" and the "NO" block for ">25%".
6. Step 8, Candidate notifies the Emergency Coordinator that possible fuel failure has been noted on the containment high-range monitors."

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:**

- The plant has been shutdown for approximately 4 hours.
- The plant was scrammed and the Main Steam Isolation Valves (MSIV's) were closed due to high Main Steam Line radiation.
- All operator actions have been performed for the plant shutdown.
- The reading from the high range monitors on 1C09 read as follows:

Drywell Radiation Monitor A: 20,000 R/hr

Drywell Radiation Monitor B: 19,000 R/hr

Torus Radiation Monitor A: 1800 R/hr

Torus Radiation Monitor B: 1700 R/hr

**INITIATING CUES (IF APPLICABLE):**

- The Operations Shift Manager is concerned with the possibility of an off-site release and has requested that a fuel damage estimate be performed in accordance with PASAP 7.2, Fuel Damage Assessment.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**

## JPM PERFORMANCE INFORMATION

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.

<b>Performance Step: 1</b>	Obtain a copy of PASAP 7.2.
<b>Critical <u>N</u></b>	
<b>Standard:</b>	Locates a copy of PASAP 7.2.
<b>Evaluator Cue:</b>	Locates a copy of PASAP 7.2.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	<u>This can be done in NAMS (Simulated).</u> _____

<b>Performance Step: 2</b>	Perform step 4.1 (1) to record Drywell and Torus Radiation Monitor Readings correctly from the JPM initial conditions to the PASAP 7.2, Attachment 1, Step 1.
<b>Critical <u>N</u></b>	
<b>Standard:</b>	Operator correctly transfers 20,000 / 19,000 R/hr to the blanks for the drywell radiation monitors and 1800 / 1700 R/hr to the blanks for the torus radiation monitor readings to PASAP 7.2, Attachment 1.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

<b>Performance Step: 3</b>	Perform step 4.1 (2) to record elapsed time since reactor shutdown correctly from the JPM initial conditions to the PASAP 7.2, Attachment 1, Step 2
<b>Critical <u>N</u></b>	
<b>Standard:</b>	Operator correctly transfers 4 hours as 'Time after Shutdown' reading to PASAP 7.2, Attachment 1.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

<b>Performance Step: 4</b>	Perform step 4.1 (3) to complete Attachment 1.
<b>Critical <u>N</u></b>	
	Operator plots Radiation information versus Time information on Figures 7.2-1 & 7.2-2.
<b>Standard:</b>	Operator correctly plots Drywell and Torus Radiation Monitor readings versus time on Figure 7.2-1 and Figure 7.2-2.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	Perform step 4.1 (3) to complete Attachment 1.
<b>Critical <u>Y</u></b>	
	Is either drywell monitor reading (from step 1) greater than the 5% or 25% curve of Figure 7.2-1 for the time after shutdown (from step 2)?
<b>Standard:</b>	Candidate determines that the drywell radiation readings of 20,000 R/hr and 19,000 R/hr are below the 5% failed fuel curves and checks both "NO" blocks.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

**Performance Step: 6**  
**Critical Y**

Perform step 4.1 (3) to complete Attachment 1.

Is either torus monitor reading (from step 1) greater than the 5% or 25% curve of Figure 7.2-2 for the time after shutdown (from step 2)?

**Standard:**

Candidate determines that the torus radiation readings of 1800 R/hr and 1700 R/hr are above the 5% failed fuel curve and below the 25% failed fuel curve and checks the "**YES**" block for ">5%" and the "**NO**" block for ">25%".

**Performance:**

**SATISFACTORY** \_\_\_\_\_ **UNSATISFACTORY** \_\_\_\_\_

**Comments:**

\_\_\_\_\_

**Performance Step: 7**  
**Critical N**

Perform step 4.1 (4) to complete Attachment 1.

If either 25% value is exceeded in step 3, notify the Emergency Coordinator that a positive indication of fuel failure has been noted on the containment high-range monitors.

**Standard:**

Candidate determines that neither 25% value is exceeded and marks this step 'N/A'.

**Performance:**

**SATISFACTORY** \_\_\_\_\_ **UNSATISFACTORY** \_\_\_\_\_

**Comments:**

\_\_\_\_\_

<b>Performance Step: 8</b>	Perform step 4.1 (4) to complete Attachment 1.
<b>Critical <u>Y</u></b>	If none of the 25% values has been exceeded but a 5% value is exceeded in step 3, notify the Emergency Coordinator that possible fuel failure has been noted on the containment high-range monitors.
<b>Standard:</b>	Candidate notifies the Emergency Coordinator that possible fuel failure has been noted on the containment high-range monitors.
<b>Evaluator Cue:</b>	When contacted as the Emergency Coordinator and informed of the results, acknowledge the candidate.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

<b>Performance Step: 9</b>	Perform step 4.1 (4) to complete Attachment 1.
<b>Critical <u>N</u></b>	If none of the 5% values have been exceeded, it may be interpreted as an indication that fuel failure has not occurred. Completion of this PASAP may be desirable to confirm this interpretation, particularly if at least one other fission product barrier has been lost.
<b>Standard:</b>	Candidate determined in the previous step that the torus radiation levels exceeded the 5% value. The candidate marks this step 'N/A'.
<b>Performance:</b>	<b>SATISFACTORY</b> _____ <b>UNSATISFACTORY</b> _____
<b>Comments:</b>	_____

**Terminating Cues:** Inform the candidate that the task is complete after the candidate contacts the Emergency Coordinator and informs him of the results.

**NOTE:** Ensure the turnover sheet that was given to the examinee is returned to the evaluator.

**Stop Time:** \_\_\_\_\_



Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: \_\_\_\_\_

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES

NO

**COMMENTS/FEEDBACK:** (Comments shall be made for any steps graded unsatisfactory).

**EXAMINER NOTE: ENSURE ALL EXAM MATERIAL IS COLLECTED AND PROCEDURES CLEANED, AS APPROPRIATE.**

**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.*



## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- The plant has been shutdown for approximately 4 hours.
- The plant was scrammed and the Main Steam Isolation Valves (MSIV's) were closed due to high Main Steam Line radiation.
- All operator actions have been performed for the plant shutdown.
- The reading from the high range monitors on 1C09 read as follows:

Drywell Radiation Monitor A: 20,000 R/hr

Drywell Radiation Monitor B: 19,000 R/hr

Torus Radiation Monitor A: 1800 R/hr

Torus Radiation Monitor B: 1700 R/hr

### **INITIATING CUES (IF APPLICABLE):**

- The Operations Shift Manager is concerned with the possibility of an off-site release and has requested that a fuel damage estimate be performed in accordance with PASAP 7.2, Fuel Damage Assessment.

**NOTE: Ensure the turnover sheet that was given to the examinee is returned to the evaluator.**