

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

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"/>

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Protected Content: (CAPRs, corrective actions, licensing commitments, etc. associated with this material)

{C001} 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:

When required to verify active license maintenance requirements, the Operator will evaluate the required elements necessary to maintain an active NRC license are met/ not met in accordance with ODI-009, Nuclear Station Plant Equipment Operator, Reactor Operator, Senior Reactor Operator, And Shift Technical Advisor Qualification Requirements

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.

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

Performance Step: Critical: Y	Review of the HANDOUT for the ability of RO #1 to relieve the watch.
Standard:	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.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

Performance Step: Critical: Y	Review of the HANDOUT for the ability of RO #2 to relieve the watch.
Standard:	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.
Performance:	SATISFACTORY _____ UNSATISFACTORY ____
Comments:	

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

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: _____



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 6/10/17			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

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

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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: (CAPRs, corrective actions, licensing commitments, etc. associated with this material)

{C001} NONE

[illegible]

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: When directed to perform a system control panel lineup, the Operator will evaluate control panel indications and reference the system control panel lineup attachment to determine the as found/as left position/status in accordance with the guidance provided in IPOI 7, Special Operations

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 initial conditions that I read may not **exactly** match the simulator setup; assume that the conditions that I read you are **the correct** plant 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
- ALL PRECAUTIONS AND LIMITATIONS HAVE BEEN PREVIOUSLY REVIEWED

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.

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

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

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

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

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

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

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 initial conditions that I read may not **exactly** match the simulator setup; assume that the conditions that I read you are **the correct** plant 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
- ALL PRECAUTIONS AND LIMITATIONS HAVE BEEN PREVIOUSLY REVIEWED

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

Developed by:	_____	_____
	Instructor/Developer	Date
Reviewed by:	_____	_____
	Instructor (Instructional Review)	Date
Validated by:	_____	_____
	SME (Technical Review)	Date
Approved by:	_____	_____
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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: (CAPRs, corrective actions, licensing commitments, etc. associated with this material)

{C001} 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 referencing the “JPM Classroom Setup” instructions below

SIMULATOR MALFUNCTIONS:

TIME	MALF #	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

JPM Classroom Setup:

1. Complete STP 3.4.2-01 up to section 7.2 by documenting the following:
 - a. For Performance Date write “TODAY” on all pages 5 through 22
 - b. Step 6.1 and 6.2 use “RO” for initials
 - c. Step 7.1.1.a is 75.5
 - d. Step 7.1.2.a is 75.3
 - e. Step 7.1.1 through 7.1.4 use “RO” for initials
 - f. For completion of section 7.1 print the following for “RO,” a signature, Today, 10 mins ago, “RO” for initials
 - g. Plot these values on Figure 1

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: When directed to perform surveillance STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST, the Operator will perform the necessary calculations and document the results of these determinations in accordance with the governing surveillance test procedure

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.

Performance Step: STP 7.2.1 Critical: N	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
Standard:	Records the following values: Values should be approximately as follows: “A” MG SET PERCENT SPEED (SIC-9245A.X) __75.5__ % DISCHARGE FLOW (FI-4634A) __25__ KGPM LOOP “A” FLOW (FR-4503, Ch 1) __15.42__ Mlbm/hr
Evaluator Note:	The Operator may record LOOP “A” FLOW (FR-4503, Ch 1) as 15.4 if rounding to the 10ths place.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

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

Performance Step: STP 7.2.3 Critical: Y	Using the data recorded in Step 7.2.1, plot "A" Recirc MG Set speed vs. Loop "A" Jet Pump flow on Figure3.
Standard:	Operator plots the MG set speed of 75.5% and Flow of 15.42 Mlb/hr below the bottom line.
Evaluator Note:	The Operator may plot the Flow of 15.4 Mlb/hr if rounded to the 10ths place.
Evaluator Cue:	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.
Performance:	SATISFACTORY _____ UNSATISFACTORY ____
Comments:	

Performance Step: STP 7.2.4a-c Critical: N	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?
Standard:	Operator answers NO to the question and proceeds to step 7.2.4.c. Operator then informs the CRS and N/A's step 7.2.4.b and continues with STP section.
Evaluator Cue:	Role Play as CRS and acknowledge the report. Inform operator that the CRS will start investigating TS and continue with the STP section.
Performance:	SATISFACTORY _____ UNSATISFACTORY ____
Comments:	

Performance Step: STP 7.2.5a Critical: N	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.
Standard:	Operator will placekeep this step with "N/A."
Performance:	SATISFACTORY _____ UNSATISFACTORY ____
Comments:	

Performance Step: STP 7.2.6a Critical: Y	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).																													
Standard:	Records Jet pump differential pressures in column A of Table A. Values should be approximately as follows: <table border="1" data-bbox="625 588 1409 1003"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A (ΔP)</th> </tr> <tr> <th>Value from the 1C38 recorder:</th> <th>Acceptable if rounded to the tenths:</th> </tr> </thead> <tbody> <tr> <td>JP-9</td> <td>7.07</td> <td>7.1</td> </tr> <tr> <td>JP-10</td> <td>6.11</td> <td>6.1</td> </tr> <tr> <td>JP-11</td> <td>1.87</td> <td>1.9</td> </tr> <tr> <td>JP-12</td> <td>1.78</td> <td>1.8</td> </tr> <tr> <td>JP-13</td> <td>6.43</td> <td>6.4</td> </tr> <tr> <td>JP-14</td> <td>6.56</td> <td>6.6</td> </tr> <tr> <td>JP-15</td> <td>6.81</td> <td>6.8</td> </tr> <tr> <td>JP-16</td> <td>6.43</td> <td>6.4</td> </tr> </tbody> </table>		A (ΔP)		Value from the 1C38 recorder:	Acceptable if rounded to the tenths:	JP-9	7.07	7.1	JP-10	6.11	6.1	JP-11	1.87	1.9	JP-12	1.78	1.8	JP-13	6.43	6.4	JP-14	6.56	6.6	JP-15	6.81	6.8	JP-16	6.43	6.4
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JP-15	6.81	6.8																												
JP-16	6.43	6.4																												
Evaluator Note:	The Operator may round the readings from 1C38 to the tenths. These values are found in the right hand column of the table in the Standard.																													
Performance:	SATISFACTORY _____ UNSATISFACTORY ____																													
Comments:																														

Performance Step: STP 7.2.6b Critical: Y	Calculate the sum of the individual Jet Pump ΔP s and the average Jet Pump ΔP and record those values in the appropriate spaces at the bottom of Table A.
Standard:	<p>Operator will calculate the sum of the individual Jet Pump ΔPs and record the value as <u> 43.06 </u> [43.1] <u> </u>.</p> <p>Operator will calculate the average Jet Pump ΔP and record the value as <u> 5.38 </u> [5.4] <u> </u>.</p>
Evaluator Note:	IF the Operator rounded the readings from 1C38 and/or the calculated average Jet Pump ΔP to the tenths; THEN the value contained in the brackets shall be used as the evaluated values.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

Performance Step: STP 7.2.6c Critical: Y	Calculate the difference between each individual Jet Pump ΔP and the average ΔP and record the results in column "B" of Table A.																														
Standard:	<p>Operator will calculate the difference between each individual Jet Pump ΔP and the average ΔP and record the following results:</p> <table border="1"> <thead> <tr> <th></th><th colspan="2">B (Ind.ΔP – Avg.ΔP)</th></tr> <tr> <th></th><th>Value if values were used from 1C38:</th><th>Acceptable if 1C38 and Avg ΔP were rounded to the tenths:</th></tr> </thead> <tbody> <tr> <td>JP-9</td><td>1.69</td><td>1.7</td></tr> <tr> <td>JP-10</td><td>0.73</td><td>0.7</td></tr> <tr> <td>JP-11</td><td>-3.51</td><td>-3.5</td></tr> <tr> <td>JP-12</td><td>-3.60</td><td>-3.6</td></tr> <tr> <td>JP-13</td><td>1.05</td><td>1.0</td></tr> <tr> <td>JP-14</td><td>1.18</td><td>1.2</td></tr> <tr> <td>JP-15</td><td>1.43</td><td>1.4</td></tr> <tr> <td>JP-16</td><td>1.05</td><td>1.0</td></tr> </tbody> </table>		B (Ind. ΔP – Avg. ΔP)			Value if values were used from 1C38:	Acceptable if 1C38 and Avg ΔP were rounded to the tenths:	JP-9	1.69	1.7	JP-10	0.73	0.7	JP-11	-3.51	-3.5	JP-12	-3.60	-3.6	JP-13	1.05	1.0	JP-14	1.18	1.2	JP-15	1.43	1.4	JP-16	1.05	1.0
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JP-14	1.18	1.2																													
JP-15	1.43	1.4																													
JP-16	1.05	1.0																													
Evaluator Note:	The acceptable values in the right hand column have assumed that the Operator has rounded the 1C38 values and the Avg ΔP were rounded to the tenths.																														
Performance:	SATISFACTORY _____ UNSATISFACTORY ____																														
Comments:																															

Performance Step: STP 7.2.6d Critical: Y	Using the following equation, calculate the percent deviation of each individual Jet Pump ΔP from the average ΔP , and record the result in column "C" of Table A.																													
Standard:	<p>Operator will use the provided equation and calculate the percent deviation of each individual Jet Pump ΔP from the average ΔP, and record the following results:</p> <table border="1" data-bbox="625 554 1409 1003"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">C (% Deviation)</th> </tr> <tr> <th>Value if values were used from 1C38:</th> <th>Acceptable if 1C38 and Avg ΔP were rounded to the tenths:</th> </tr> </thead> <tbody> <tr> <td>JP-9</td> <td>31.41</td> <td>31.5</td> </tr> <tr> <td>JP-10</td> <td>13.57</td> <td>13.0</td> </tr> <tr> <td>JP-11</td> <td>-65.24</td> <td>-64.8</td> </tr> <tr> <td>JP-12</td> <td>-66.91</td> <td>-66.7</td> </tr> <tr> <td>JP-13</td> <td>19.52</td> <td>18.5</td> </tr> <tr> <td>JP-14</td> <td>21.93</td> <td>22.2</td> </tr> <tr> <td>JP-15</td> <td>26.58</td> <td>25.9</td> </tr> <tr> <td>JP-16</td> <td>19.52</td> <td>18.5</td> </tr> </tbody> </table>		C (% Deviation)		Value if values were used from 1C38:	Acceptable if 1C38 and Avg ΔP were rounded to the tenths:	JP-9	31.41	31.5	JP-10	13.57	13.0	JP-11	-65.24	-64.8	JP-12	-66.91	-66.7	JP-13	19.52	18.5	JP-14	21.93	22.2	JP-15	26.58	25.9	JP-16	19.52	18.5
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JP-14	21.93	22.2																												
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JP-16	19.52	18.5																												
Evaluator Note:	<p>For each Jet Pump, the “% Deviation” variance between the two values listed becomes more pronounced due to the rounding which could occur during each mathematical step.</p> <p>For each jet pump, IF the “% Deviation” value calculated by the Operator is bounded by these two values, THEN this step is SATISFACTORY.</p>																													
Performance:	SATISFACTORY _____ UNSATISFACTORY ____																													
Comments:																														

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

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

Performance Step: STP 7.2.8c Critical: N	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.
Standard:	Operator will immediately notify the CRS and "N/A" Steps 7.2.8.b, 7.2.8.d, and 7.2.8.e.
Evaluator Cue:	When the Operator informs the CRS, acknowledge the report.
Performance:	SATISFACTORY _____ UNSATISFACTORY ____
Comments:	

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: _____

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:

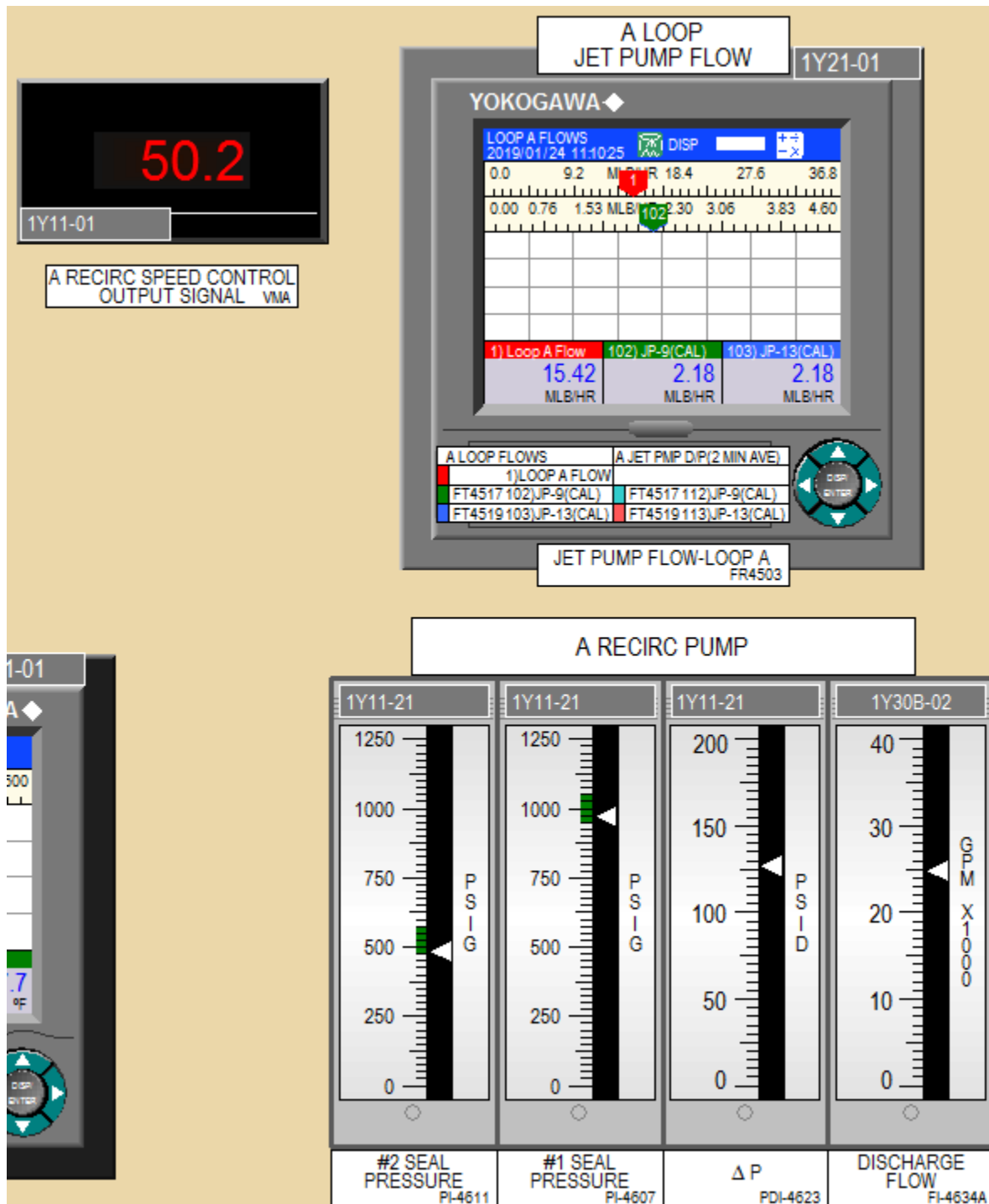
- The plant is operating at 50% rated thermal power
- Another operator was performing STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST; but he was called away for other plant issues
- STP 3.4.2-01, Section 7.1 was completed SAT
- The JETS program is unavailable on the VAX computer

INITIATING CUES (IF APPLICABLE):

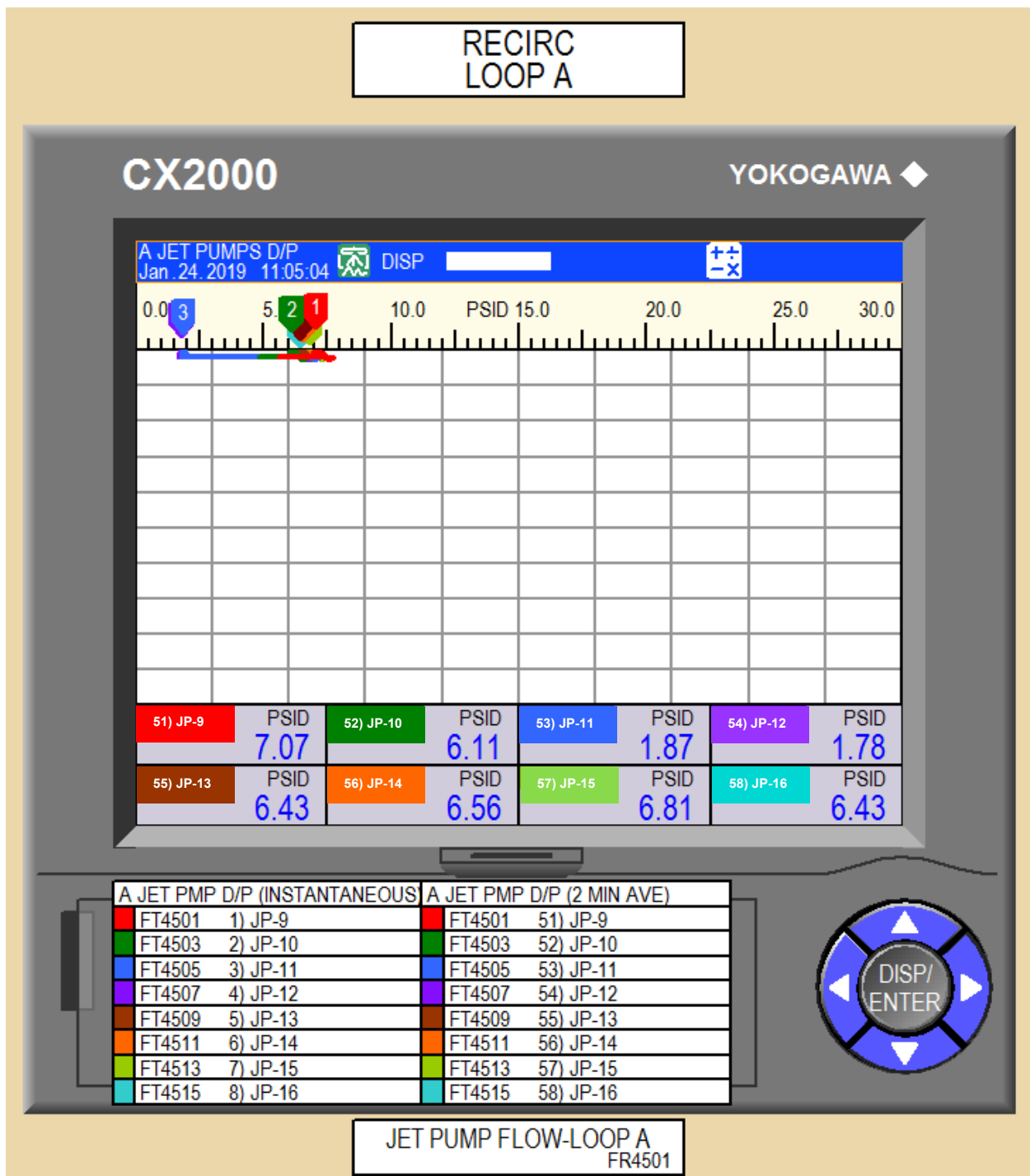
- The Control Room Supervisor directs you to continue with STP 3.4.2-01, DAILY JET PUMP OPERABILITY TEST, continuing with Section 7.2

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



JET PUMP FLOW-LOOP A
FR4501

JOB PERFORMANCE MEASURE

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

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

TASK NUMBER(S) / 94.25/
TASK TITLE(S): 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

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: (CAPRs, corrective actions, licensing commitments, etc. associated with this material)

{C001} 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

ADMINISTRATIVE JPM SET-UP:

1. Have a printed copy of AOP 913 to present the Operator when directed in JPM

Required Materials:

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

General References:

- ARP 1C40 (C-2), HPCI ROOM DELUGE NO. 2 INITIATED, Rev. 77
- AOP 913, Fire, Rev. 83

Task Standards:

The Operator will perform the required actions to notify via the plant page and address any annunciators associated for the given plant conditions

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 initial conditions that I read may not **exactly** match the simulator setup; assume that the conditions that I read you are **the correct** plant 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.

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

Performance Step: ARP1C40(C-2), NOTE Critical: N	NOTE 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.
Standard:	Operator will placekeep NOTE.
Evaluator Note	If Operator asks if there is any grinding, welding, or hot work in the area, respond “there are no activities of this sort in the area.”
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

Performance Step: ARP1C40(C-2), 3.1 Critical: Y	Immediately activate DAEC Fire Brigade by sounding Site Fire Alarm and making the appropriate announcement over the Plant Page.
Standard:	Operator will immediately activate DAEC Fire Brigade implementing the immediate actions of AOP 913, FIRE, to sound Site Fire Alarm and make the announcement over the Plant Page.
Evaluator Cue:	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.”</u> Hand copy of AOP 913 to the Operator.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

Performance Step: AOP 913, NOTE Critical: N	<u>NOTE</u> If the cause is due to known maintenance, welding, grinding, and is known not to be fire, then the Fire Brigade need not be activated.
Standard:	Operator will placekeep NOTE.
Evaluator Note	If the Operator asks if there is any grinding, welding, or hot work in the area, respond “there are no activities of this sort in the area.”
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

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

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

Performance Step: AOP 913, Step 3.a Critical: Y	<p>IF any of the following conditions exist, THEN activate the fire brigade: The alarm window has a RED Lens.</p> <ul style="list-style-type: none"> • A report of a visible fire. • A report of smoke that in the judgment of the CRS requires fire brigade response. • 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"> • Sprinkler/deluge initiation • Any fire pump(s) auto starting <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>
Standard:	<p>Operator will:</p> <ul style="list-style-type: none"> • Depress the fire alarm pushbutton • 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.”
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

Performance Step: AOP 913, Step 3.b Critical: Y	Repeat Site Fire alarm and page announcement.
Standard:	<p>Operator will:</p> <ul style="list-style-type: none"> • Depress the fire alarm pushbutton • 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.”
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	

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

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

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

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

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

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

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

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: _____

Examinee: _____

Evaluator: _____

☐ RO ☐ SRO ☐ STA ☐ Non-Lic ☐ SRO CERT

Date: _____

☐ LOIT RO ☐ LOIT SRO

PERFORMANCE RESULTS:

SAT:

UNSAT:

Remediation required:

YES |

NO	
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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 initial conditions that I read may not **exactly** match the simulator setup; assume that the conditions that I read you are **the correct** plant 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.