

Job Performance Measure

Determine LPCS Pump Operability and Reportability Requirements

JPM Number: A-SRO-20Revision Number: 01Date: 3/4/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>LS-AA-1110</u>	Revision: <u>34</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date

Revision Record (Summary)

Revision #	Summary
00	New JPM developed for the LORT 2015 NRC Annual Exams
01	Updated for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. Have a Copy of the Exelon Reportability Reference Manual available for the examinee
2. This completes the setup for this JPM.

INITIAL CONDITIONS

You are the Unit 2 Supervisor,

- Unit 1 is in Mode 3.
- At 0700, while attempting to transition Unit 1 RPV level control from RCIC to LPCS, the LPCS Injection Valve, 1E21-F005, failed to OPEN as required when the associated control switch was held in the "OPEN" position.
- At that time the Unit 1 Supervisor declared the Unit 1 LPCS system INOPERABLE and Technical Specification 3.5.1 Required Action A.1 has been entered.

INITIATING CUE

The Shift Manager has directed you to determine if the event requires an ENS notification. If required, notify the Shift Manager what the event is reportable under and when notification is required. The Shift Manager will complete and transmit ENS notification forms as required.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

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JPM Start Time: _____ JPM Sequence #: _____ of _____

<u>Task Standard:</u>					
Task is complete when examinee determines LPCS pump INOPERABILITY is reportable per SAF 1.8 and is required in 8 hours.					
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	Obtain a copy of the Exelon Reportability Reference Manual. LS-AA-1110	Examinee obtains a copy of the Exelon Reportability Reference Manual.	☐	☐	—
*02	Utilize Exelon Reportability Reference Manual to determine notification requirements	Examinee determines SAF 1.8 for the LPCS Pump being INOPERABLE.	☐	☐	—
NOTE: Notification is required within 8 hours from time of discovery of an event or condition that could have prevented fulfilment of a safety function. Time of discovery was at 0700 when the LPCS Pump system was declared INOPERABLE. Notification would be required by 1500 to meet the requirements.					
*03	Utilize Exelon Reportability Reference Manual to determine time reporting requirements	Examinee determines the notification per SAF 1.8 is required within 8 hours from the time of discovery.	☐	☐	—
04	Notify the Shift Manager of the notification requirements and most limiting time requirement.	Examinee notifies the Shift Manager that SAF 1.8 applies and is due within 8 hours from discovery.			
CUE	As Shift Manager, acknowledge report. JPM is complete.				

JPM Stop Time: _____

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JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Determine LPCS Pump Operability and Reportability Requirements**JPM Number:** A-SRO-20 **Revision Number:** 01**Task Number and Title:** 604.010 Given a situation and the Exelon Reportability Manual, determine notification requirements, IAW station procedures.**Task Standard:** Task is complete when examinee determines LPCS pump INOPERABILITY is reportable per SAF 1.8 and is required in 8 hours**K/A Number and Importance:** 2.1.18 - 3.6/3.8**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):**

Procedure: <u>LS-AA-1110</u>	Revision: <u>34</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 15 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

You are the Unit 2 Supervisor,

- Unit 1 is in Mode 3.
- At 0700, while attempting to transition Unit 1 RPV level control from RCIC to LPCS, the LPCS Injection Valve, 1E21-F005, failed to OPEN as required when the associated control switch was held in the “OPEN” position.
- At that time the Unit 1 Supervisor declared the Unit 1 LPCS system INOPERABLE and Technical Specification 3.5.1 Required Action A.1 has been entered.

INITIATING CUE

The Shift Manager has directed you to determine if the event requires an ENS notification. If required, notify the Shift Manager what the event is reportable under and when notification is required. The Shift Manager will complete and transmit ENS notification forms as required.

Job Performance Measure

Evaluate and enter Technical Specification during loss of Feedwater Heating

JPM Number: A-SRO-13

Revision Number: 05

Date: 3/4/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>LOA-HD-101</u>	Revision: <u>41</u>
Procedure: <u>TRM Appendix I</u>	Revision: <u>21</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date

Revision Record (Summary)

Revision #	Summary
00	New JPM
01	Revised for new format and ILT 15-1 NRC Exam.
02	Revised to incorporate procedure revision to LOA-HD-101.
03	Revised to incorporate procedure revision to LOA-HD-101 and TRM Appendix I. No change to the performance of the JPM.
04	Revised to incorporate procedure revision to LOA-HD-101.
05	Updated for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. No SIM setup is required
2. Have a clean copy of LOA-HD-101 available to the examinee.
3. Have a copy of all technical specification books available to the examinee.
4. This completes the setup for this JPM.

INITIAL CONDITIONS

You are an extra SRO on shift,

- Unit 1 was operating at rated power when a loss of Feedwater heating occurred. Initial actions to reduce Reactor Power to maintain CD/CB Pump suction pressure are complete.
- The loss of Feedwater heating is of such a nature that it will not be recovered for at least 3 hours. The crew entered LOA-HD-101 and is following the procedure. Unit 1 Rx power is currently 80%, and Feedwater temperature is 310°F following the initial power reduction.

INITIATING CUE

The Shift Manager has assigned you to determine the Tech Spec required actions if any. Inform the Shift Manager when you have completed this task.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Examinee is required to plot the current operating conditions on LOA-HD-101 Figure 1 below the COLR operating conditions line, green line, and enters Required Action A.1 in Technical Specifications 3.2.1, 3.2.2, and 3.2.3.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Examinee may obtain a copy of LOA-HD-101.				
01	Reviews LOA-HD-101 for applicability	Examinee reviews section B.1 for Loss of Feed Water Heating	☐	☐	—
CUE	If asked for an OD-3 or to talk to a QNE, report the QNE has been informed and will contact the shift upon arrival.				
*02	Plots the temperature on the curve for Rx Power and Temperature	Examinee determines unit 1 is operating in a condition not specified in the COLR (Core Operating Limits Report), by plotting OR noting the operating state places unit 1 below the green line on Figure 1 of LOA-HD-101	☐	☐	—
*03	Refers to Tech Spec 3.2.1 for APLHGR	Examinee determines TS 3.2.1 Required Action A.1 • Restore APLHGR to within limits in 2 hours	☐	☐	—
*04	Refers to Tech Spec 3.2.2 for MCPR	Examinee determines TS 3.2.2 Required Action A.1 • Restore MCPR to within limits in 2 hours	☐	☐	—
*05	Refers to Tech Spec 3.2.3 for LHGR	Examinee determines TS 3.2.3 Required Action A.1 • Restore LHGR to within limits in 2 hours	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Examinee is required to plot the current operating conditions on LOA-HD-101 Figure 1 below the COLR operating conditions line, green line, and enters Required Action A.1 in Technical Specifications 3.2.1, 3.2.2, and 3.2.3.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
06	Informs the Shift Manager of the TS time clocks due to the loss of feedwater heating	Informs the Shift Manager of the TS time clocks	☐	☐	—
CUE	Acknowledge the report. JPM is complete.				

JPM Stop Time: _____

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JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Evaluate and enter Technical Specification during loss of Feedwater HeatingJPM Number: A-SRO-13 Revision Number: 05Task Number and Title: 201.011 - Given a set of plant conditions, identify and prepare the Technical Specification required actions, IAW Technical SpecificationsTask Standard: Examinee is required to plot the current operating conditions on LOA-HD-101 Figure 1 below the COLR operating conditions line, green line, and enters Required Action A.1 in Technical Specifications 3.2.1, 3.2.2, and 3.2.3.K/A Number and Importance: 2.1.25 - 4.2Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: LOA-HD-101 Revision: 41Procedure: TRM Appendix I Revision: 21**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 10 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

You are an extra SRO on shift,

- Unit 1 was operating at rated power when a loss of Feedwater heating occurred. Initial actions to reduce Reactor Power to maintain CD/CB Pump suction pressure are complete.
- The loss of Feedwater heating is of such a nature that it will not be recovered for at least 3 hours. The crew entered LOA-HD-101 and is following the procedure. Unit 1 Rx power is currently 80%, and Feedwater temperature is 310°F following the initial power reduction.

INITIATING CUE

The Shift Manager has assigned you to determine the Tech Spec required actions if any. Inform the Shift Manager when you have completed this task.

Job Performance Measure

Determine Isolation points and TRM requirements for a Clearance Order

JPM Number: A-SRO-44Revision Number: 03Date: 6/12/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>OP-AA-109-101</u>	Revision: <u>19</u>
Procedure: <u>M-71, sheet 1</u>	Revision: <u>BH</u>
Procedure: <u>M-71, Sheet 2</u>	Revision: <u>Y</u>
Procedure: <u>TRM 3.7.j</u>	Revision: <u>3</u>
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
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_____ / _____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
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Revision Record (Summary)

Revision #	Summary
00	JPM developed for ILT NRC 09-1 exam
01	Updated for ILT Class 13-01 Cert Exam. Converted JPM number from A-SRO-EC-1 Rev. 0 to A-SRO-44 Rev. 1. to match the primary JPM numbering convention on the K Drive. Revised to include the latest JPM template and procedure revisions
02	Updated for ILT 19-1 Cert Exam
03	Updated for ILT 23-1 Initial License Exam

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. This JPM may be completed at any location, provided that the appropriate reference material is available.
2. Ensure the following references are available:
 - P&ID M-71 Sh. 1 and 2
 - OP-AA-109-101, Clearance and Tagging
 - TRMs
 - Attached form to document isolation points

INITIAL CONDITIONS

You are an SRO at the WEC.

- An EO, while on rounds at the Lake Screen House, discovered a fire hose supply (FB 233) leaking.
- OFP069 was closed to isolate the leak but is still leaking by.
- Because of computer problems, Asset Suite 9 IS NOT AVAILABLE, but is expected back later on your shift.
- An NSO located the drawings and listed the isolation points.

INITIATING CUE

VERIFY the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD any additional ISOLATION POINT(S), and the required HANG POSITION.

Determine TRM implications, if any.

Give the worksheet to the Unit Supervisor when complete.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when the examinee determines 0FP080 needs to be CLOSED, 2FP058 needs to be CLOSED, and B Diesel Fire Pump will be INOPERABLE requiring entry into TRM 3.7.j Required Action A.1 OR A.2.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: If not previously provided to the examinee, provide them with the recommended isolations points sheet, page 8					
1	Refer to the provided prints.	Examinee locates and refers to the following drawings: • M-71-1 • M-71-2	☐	☐	—
*2	Determine additional mechanical isolation point for Fire Hose Station FB 233.	Examinee determines the following valve must also be taken OOS in the closed position: 0FP080	☐	☐	—
*3	Determine additional mechanical isolation point for Fire Hose Station FB 233.	Examinee determines the following valve must also be taken OOS in the closed position: 2FP058	☐	☐	—
*4	Determines Required Actions with “B” DFP OOS.	Applies TRM 3.7.j, RA A.1 (restore operable in 7 days) or A.2 (prepare corrective action program in 7 days)	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when the examinee determines 0FP080 needs to be CLOSED, 2FP058 needs to be CLOSED, and B Diesel Fire Pump will be INOPERABLE requiring entry into TRM 3.7.j Required Action A.1 OR A.2.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
5	Inform Unit Supervisor of components and positions.	Examinee informs Unit Supervisor of components identified and position required.	☐	☐	_____
CUE	Acknowledge the report. JPM is complete.				

JPM Stop Time: _____

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JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Determine Isolation points and TRM requirements for a Clearance OrderJPM Number: A-SRO-44 Revision Number: 03Task Number and Title: 801.000 Given a Clearance Order Request, process the request, create a Clearance Order Checklist and perform request, IAW station proceduresTask Standard: Task is complete when the examinee determines 0FP080 needs to be CLOSED, 2FP058 needs to be CLOSED, and B Diesel Fire Pump will be INOPERABLE requiring entry into TRM 3.7.j Required Action A.1 OR A.2.K/A Number and Importance: 2.2.41 SRO 3.9Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: <u>OP-AA-109-101</u>	Revision: <u>19</u>
Procedure: <u>M-71, sheet 1</u>	Revision: <u>BH</u>
Procedure: <u>M-71, Sheet 2</u>	Revision: <u>Y</u>
Procedure: <u>TRM 3.7.j</u>	Revision: <u>3</u>

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 20 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

FOR EXAMINATION PURPOSES ONLY

Attach additional sheets as necessary.

Component Name <u>or</u> EPN	HANG position:
0FP174B	closed
0FP002B	closed
0FP191B	closed
0FP091	closed

INITIAL CONDITIONS

You are an SRO at the WEC.

- An EO, while on rounds at the Lake Screen House, discovered a fire hose supply (FB 233) leaking.
- OFP069 was closed to isolate the leak but is still leaking by.
- Because of computer problems, Asset Suite 9 IS NOT AVAILABLE, but is expected back later on your shift.
- An NSO located the drawings and listed the isolation points.

INITIATING CUE

VERIFY the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD any additional ISOLATION POINT(S), and the required HANG POSITION.

Determine TRM implications, if any.

Give the worksheet to the Unit Supervisor when complete.

Job Performance Measure

Determine ODCM Compensatory Measures

JPM Number: A-SRO-50MRevision Number: 01Date: 9/25/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>LOR-1H13-P601-B302</u>	Revision: <u>2</u>
Procedure: <u>CY-LA-170-301</u>	Revision: <u>11</u>
Procedure: <u>LOP-WF-20</u>	Revision: <u>45</u>
Procedure: _____	Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date
_____ / _____ SME / Instructor (Print/Sign)	_____ Date

Revision Record (Summary)

Revision #	Summary
00	Modified from A-SRO-50 for 23-1 ILE. JPM was changed to be an evaluation of a loss of power to the Radwaste Liquid Rad monitor which requires entry into Condition C instead of Condition E.
01	Added steps required if examinee opts to correct the instrumentation failure vice entering ODCM RECs.

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. No SIM setup required.
2. Have a copy of CY-LA-170-301 available for the examinee to reference.
3. Have a copy of LOR-1H13-P601-B302 to provide to the examinee.

INITIAL CONDITIONS

You are the Unit 1 Unit Supervisor today.

A Liquid Radwaste Discharge is in progress.

1H13-P601-B302, Radwaste Discharge High Radiation or Inoperative Isolation Signal, alarms

The NSO has since reported the following:

- Radwaste Discharge Valve, 0WL067, is CLOSED.
- Radwaste Discharge Pumps 0WF05P, 1WF05P, and 2WF05P are TRIPPED.
- The Radwaste Liquid Rad Monitor on 1H13-P604 has no indicating lights.
- The Radwaste Liquid Rad Monitor recorder on 1H13-P604 is reading downscale.
- The PRM Inverter on 1H13-P604 is still energized.
- The breaker to the PRM Inverter on MCC 112Y is closed.
- Chemistry has been notified.

IMD has been called in to assist in troubleshooting and they suspect a fault in the monitor that has blown a power supply fuse.

INITIATING CUE

In order to continue the Radwaste Discharge:

- Identify the Required Actions.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM.

Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when given the initial conditions the examinee identifies ODCM REC 12.2.1 Conditions B and C, Required Actions B.1, C.1, C.2, and C.3 OR C.4 are required to be entered for function 1.a IAW CY-LA-170-301 (ODCM). Task can alternatively be completed by replacing the blown fuse, performing RSR 12.2.1.3, and notifying chemistry to resample the tank.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: The necessary compensatory actions are found in the Offsite Dose Calculation Manual (ODCM) Section 12.2.1					
CUE	Provide the examinee with a copy of LOR-1H13-P601-B302				
01	Recognize that the Initial Conditions render the Radwaste Liquid Rad Monitor inoperable	Examinee declares the Radwaste Liquid Rad Monitor declared inoperable	☐	☐	—
NOTE: Steps 02 through 06 are not critical if steps 07 through 09 are performed.					
*02	Identify the correct CONDITION and REQUIRED ACTION: Condition B: One or more required instrument channels inoperable for reasons other than Condition A. RA B.1 Enter the Condition referenced in Table R12.2.1.-1 for the instrument channel	Condition B and Required Action B.1 identified for Function 1.a: Enter the condition referenced in Table R12.2.1-1 for the instrument channel immediately.	☐	☐	—
03	From Table R12.2.1.-1, correctly identifies Condition C	Condition C identified	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when given the initial conditions the examinee identifies ODCM REC 12.2.1 Conditions B and C, Required Actions B.1, C.1, C.2, and C.3 OR C.4 are required to be entered for function 1.a IAW CY-LA-170-301 (ODCM). Task can alternatively be completed by replacing the blown fuse, performing RSR 12.2.1.3, and notifying chemistry to resample the tank.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*04	Correctly identifies Required Action C.1: Perform RSR 12.3.1.1 on at least two independent samples of the tank's contents prior to each release.	Required Action C.1 identified Perform RSR 12.3.1.1 on at least two independent samples of the tank's contents prior to each release.	☐	☐	—
*05	Correctly identifies Required Action C.2: Verify the release rate calculations and discharge valve line-up independently with at least two qualified members of the technical staff prior to each release.	Required Action C.2 identified. Verify the release rate calculations and discharge valve line-up independently with at least two qualified members of the technical staff prior to each release.	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when given the initial conditions the examinee identifies ODCM REC 12.2.1 Conditions B and C, Required Actions B.1, C.1, C.2, and C.3 OR C.4 are required to be entered for function 1.a IAW CY-LA-170-301 (ODCM). Task can alternatively be completed by replacing the blown fuse, performing RSR 12.2.1.3, and notifying chemistry to resample the tank.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*06	Correctly identifies Required Action C.3: Return instrument channel to OPERABLE status within 30 days. OR Required Action C.4: Place Administrative Control Clearance order to Lock-Closed 0WF201, RW DSCH Tank River DSCH Valve, to remove the ability to conduct a Liquid Radwaste Discharge within 30 days.	Identifies: Required Action C.3: Return instrument channel to OPERABLE status within 30 days. <u>OR</u> Required Action C.4: Place Administrative Control Clearance order to Lock-Closed 0WF201, RW DSCH Tank River DSCH Valve, to remove the ability to conduct a Liquid Radwaste Discharge within 30 days.	☐	☐	_____
NOTE: Steps 07 and 08 are not critical if steps 02 through 06 are completed SAT.					
*07	Replace blown fuse in power supply.	Examinee identifies blown fuse identified by IMD needs replaced.	☐	☐	_____

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when given the initial conditions the examinee identifies ODCM REC 12.2.1 Conditions B and C, Required Actions B.1, C.1, C.2, and C.3 OR C.4 are required to be entered for function 1.a IAW CY-LA-170-301 (ODCM). Task can alternatively be completed by replacing the blown fuse, performing RSR 12.2.1.3, and notifying chemistry to resample the tank.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: OPERABILITY of the Liquid Radwaste Effluents Line Gamma Scintillation monitor providing alarm and automatic termination of release, Instrument 1.a on Table R12.2.1-1, is determined using surveillance requirements RSR 12.2.1.1, SOURCE CHECK prior to each release, RSR 12.2.1.3, CHANNEL CHECK every 24 hours, RSR 12.2.1.5, CHANNEL FUNCTIONAL TEST every 92 days, and RSR 12.2.1.7, CHANNEL CALIBRATION every 24 months. As a discharge was in progress in the initial conditions, it is known that the surveillances satisfying RSR 12.2.1.5 and RSR 12.2.1.7 are current and still considered met following fuse replacement. RSR 12.2.1.1 will be performed during the performance of LOP-WF-20, Radwaste Discharge to the lake blowdown line. ONLY RSR 12.2.1.3 is required prior to reperforming LOP-WF-20.					
*08	Perform Channel Check to satisfy RSR 12.2.1.3.	Examinee Identifies RSR 12.2.1.3 needs to be satisfied to restore.	☐	☐	_____
CUE	Acknowledge report from examinee as required. JPM is complete.				

JPM Stop Time: _____

.....

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Determine ODCM Compensatory Measures**JPM Number:** A-SRO-50M **Revision Number:** 00**Task Number and Title:** 702.001 Given an INOPERABLE component, determine the ODCM applicability IAW CY-LA-170-301 (ODCM)**Task Standard:** Task is complete when given the initial conditions the examinee identifies ODCM REC 12.2.1 Conditions B and C, Required Actions B.1, C.1, C.2, and C.3 OR C.4 are required to be entered for function 1.a IAW CY-LA-170-301 (ODCM). Task can alternatively be completed by replacing the blown fuse, performing RSR 12.2.1.3, and notifying chemistry to resample the tank.**K/A Number and Importance:** 2.3.11 3.7**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):**

Procedure:	<u>LOR-1H13-P601-B302</u>	Revision:	<u>2</u>
Procedure:	<u>CY-LA-170-301</u>	Revision:	<u>11</u>
Procedure:	<u>LOP-WF-20</u>	Revision:	<u>45</u>

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 15 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

SRRS: 3D.105 (when utilized for operator initial or continuing training)

INITIAL CONDITIONS

You are the Unit 1 Unit Supervisor today.

A Liquid Radwaste Discharge is in progress.

1H13-P601-B302, Radwaste Discharge High Radiation or Inoperative Isolation Signal, alarms

The NSO has since reported the following:

- Radwaste Discharge Valve, 0WL067, is CLOSED.
- Radwaste Discharge Pumps 0WF05P, 1WF05P, and 2WF05P are TRIPPED.
- The Radwaste Liquid Rad Monitor on 1H13-P604 has no indicating lights.
- The Radwaste Liquid Rad Monitor recorder on 1H13-P604 is reading downscale.
- The PRM Inverter on 1H13-P604 is still energized.
- The breaker to the PRM Inverter on MCC 112Y is closed.
- Chemistry has been notified.

IMD has been called in to assist in troubleshooting and they suspect a fault in the monitor that has blown a power supply fuse.

INITIATING CUE

In order to continue the Radwaste Discharge:

- Identify the Required Actions.

Job Performance Measure
Determine PARS for an Event

JPM Number: A-SRO-54

Revision Number: 01

Date: 3/4/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>EP-AA-111-F-05</u>	Revision: <u>1</u>
Procedure: <u>EP-AA-111</u>	Revision: <u>24</u>
Procedure: <u>EP-AA-114</u>	Revision: <u>17</u>
Procedure: <u>EP-AA-1005 Add. 3</u>	Revision: <u>9</u>
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____/_____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

_____/_____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

_____/_____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

Revision Record (Summary)

Revision #	Summary
00	New JPM written for 15-1 NRC Exam
01	Updated for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. No SIM setup required
2. The following material should be available to the examinee:
 - EP-AA-111-F-05
 - EP-AA-111
 - EP-AA-114
 - EP-AA-1005 Addendum 3
 - LGA-002
3. This completes the setup for this JPM.

INITIAL CONDITIONS

You are an SRO in the Control Room and have been directed to assist the Shift Manager. A LOCA has occurred on Unit 1 and the following plant conditions exist:

- The Shift Manager has just classified FG1.
- All Secondary Containment parameters are normal.
- Plant Computer average wind speed is 12 mph from 270°
- All PCIS isolations have taken place as expected.
- Suppression Pool Temperature is 210°F
- Reactor Pressure is 700 psig
- Drywell Gross Gamma is reading 350 R/HR
- The highest ARM is reading 205 R/HR
- SBTG is running
- No release has been reported
- No PAR determination has been made

INITIATING CUE

The Shift Manager has directed you to determine and report PARs for the event.

This is a Time Critical JPM.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when examinee determines Evacuation of Sub area 1 is required and informs the shift manager of that determination within 15 minutes from acknowledging initiating cue IAW EP-AA-111.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	Enters Page 1 of PAR Flowchart.	Examinee enters Page 1 of PAR Flowchart.	☐	☐	_____
02	Determine if GE declared.	Examinee confirms FG1 Has been classified.	☐	☐	_____
NOTE: PAR determination must be completed within 15 minutes of JPM start time.					
03	Determine if initial PAR.	Examinee determines this is the initial PAR.	☐	☐	_____
*04	Determine Loss of Primary Containment AND ARM reading or RG1 entered.	Examinee determines that these are not met.	☐	☐	_____
*05	Determine if Hostile Action in progress.	Examinee determines No Hostile Action in progress.	☐	☐	_____
*06	Determine if PAR being made in the control room.	Examinee determines PAR being made from the MCR.	☐	☐	_____
*07	Determines to Evacuate Sub Area 1	Examinee evacuates Sub Area 1	☐	☐	_____
*08	Inform the Shift Manager.	Examinee informs the Shift Manager that Sub Area 1 needs to be evacuated.	☐	☐	_____
CUE	Acknowledge the report. Inform the examinee the JPM is complete. Immediately record time stop.				

JPM Stop Time: _____

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Determine PARS for an EventJPM Number: A-SRO-54 Revision Number: 01Task Number and Title: 711.001 – Given postulated E-plan conditions, recommend Offsite Protective Actions, IAW station procedures.Task Standard: Task is complete when examinee determines Evacuation of Sub area 1 is required and informs the shift manager of that determination 15 minutes from acknowledging initiating cue IAW EP-AA-111.K/A Number and Importance: 2.4.44 - 4.4Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☒ Yes ☐ No

Reference(s):

Procedure: <u>EP-AA-111-F-05</u>	Revision: <u>1</u>
Procedure: <u>EP-AA-111</u>	Revision: <u>24</u>
Procedure: <u>EP-AA-114</u>	Revision: <u>17</u>
Procedure: <u>EP-AA-1005 Add. 3</u>	Revision: <u>9</u>

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