Exelon Generation

Job Performance Measure

Evaluate License Maintenance Requirements

JPM Number: A-RO-15

Revision Number: 05

Date: 12/12/2022

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

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

Exelon Generation

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: OP-AA-105-102 Revision: 17
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	This JPM is developed IAW Guidelines established in NUREG 1021 Rev 8 ES-301 and Appendix C. This JPM meets the criteria of Category A "Administrative Topics" for RO/SRO candidates.
Revision 01	Corrected the procedure reference in the Evaluator notes section and changed the year to 2004 throughout the JPM.
Revision 02	Updated for revision OP-AA-105-102 Rev. 9
Revision 03	Updated K/A and Task references. Updated dates to 2009 throughout the JPM.
Revision 04	Updated to current template and procedures for ILT 13-1 NRC Exam
Revision 05	Updated for current LaSalle station Operations schedule (12-hr shifts) and modified JPM work with current schedule.
Revision 06	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision. Updated dates to make current.

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

1. Have a Copy of OP-AA-105-102 to provide to the Candidate.

Exelon Generation

INITIAL CONDITIONS

You are an on shift Reactor Operator with an active NRC License.

- Today is 12/23/22.
- The Station is working a straight 12 hour shift schedule.
- You are currently assigned to relieve the assist NSO on Unit 2 on January 2nd, 2023 on Day shift.
- You have covered the following shifts during the current quarter:
  - Three complete 12-hour Day shifts as the Unit 1 Assist NSO during the outage on October 12th, 13th, and 14th.
  - You split 12-hour Day shifts working eight hours as a clearance order writer and the other four hours as the Unit 1 Assist NSO on October 1st, 2nd, 8th, 9th, 15th, 16th, 22nd, 27th, 29th, and 30th.
  - You split two 12-hour midnight shifts working six hours as the Unit 1 NSO and the other six hours as a clearance order writer during a maintenance outage on November 10th and 11th.
  - You covered two 8-hour Day shifts as a Unit 2 NSO on October 23rd and 24th.
  - All shifts covered were entered in the Shift Manager Log.

INITIATING CUE

The Shift Manager has directed you to document your shift coverage for the 4th Quarter of 2022, evaluate your standing as an active Licensed RO, and determine your ability to assume shift for January 2, 2023. Notify the Shift Manager of your status and any additional requirements prior to the end of the 4th quarter 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 Candidate 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.

SRRS: 3D.100; There are no retention requirements for this section

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

Task Standard:

Candidate reviews shift coverage from the 4th Quarter and determines that they need additional shifts to maintain an active license to be available to take shift IAW OP-AA-105-102.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	After the Candidate demonstrates where to obtain a copy of the procedure, provide them with a copy of OP-AA-105-102.				
1	Obtain a copy of the procedure.	Candidate DEMONSTRATES where to obtain a copy of the procedure.	☐	☐	___
*2	Records shift coverage from 4th quarter of 2022.	Correctly records dates, shifts, length of shift, position filled, and signs Attachment 1 using information from the initial conditions.	☐	☐	___
NOTE:	ONLY full 12-hours with turnovers count towards shift coverage time allowed. Candidates should NOT record any of the split shifts or 8-hour shifts. The end result should show three 12-hour shifts, which is short of the required five 12-hour shifts. No truncation is allowed.				
*3	Reviews requirements to maintain active license.	Candidate RECOGNIZES they do NOT have the minimum number of required hours of shift watch to maintain their active license.	☐	☐	___
*4	Reviews requirements to maintain active license.	Candidate DETERMINES they are NOT eligible to stand shift on January 2, 2023 due to not having the minimum number of required shifts.	☐	☐	___
5	NOTIFY the Shift Manager.	Candidate NOTIFIES Shift Manager they are not eligible to stand shift on January 2, 2023.	☐	☐	___

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Task Standard:
Candidate reviews shift coverage from the 4th Quarter and determines that they need additional shifts to maintain an active license to be available to take shift IAW OP-AA-105-102.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	As Shift Manager, Acknowledge report. When Candidate determines they will not be eligible to assume the shift, ask them what additional requirements they need to be able to stand the shift on January 2, 2023.				
*6	Reviews requirements to maintain active license.	Determines that a minimum of two 12-hr shifts are needed to fulfill the requirements to maintain their license active.	☐	☐	___
7	NOTIFY the Shift Manager.	Candidate NOTIFIES Shift Manager of requirements needed to maintain an active RO license.	☐	☐	___
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: Evaluate License Maintenance Requirements

JPM Number: A-RO-15 Revision Number: 05

Task Number and Title: 784.020 During the performance of tasks, apply the administrative requirements of NRC ACTIVE LICENSE MAINTENANCE, IAW OP-AA-105-102

Task Standard: Candidate reviews shift coverage from the 4th Quarter and determines that they need additional shifts to maintain an active license to be available to take shift IAW OP-AA-105-102.

K/A Number and Importance: Generic 2.1.4 3.3/3.8

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	OP-AA-105-102	Revision:	17
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 ☐ No

The 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 an on shift Reactor Operator with an active NRC License.

- Today is 12/23/22.
- The Station is working a straight 12 hour shift schedule.
- You are currently assigned to relieve the assist NSO on Unit 2 on January 2nd, 2023 on Day shift.
- You have covered the following shifts during the current quarter:
    - Three complete 12-hour Day shifts as the Unit 1 Assist NSO during the outage on October 12th, 13th, and 14th.
    - You split 12-hour Day shifts working eight hours as a clearance order writer and the other four hours as the Unit 1 Assist NSO on October 1st, 2nd, 8th, 9th, 15th, 16th, 22nd, 27th, 29th, and 30th.
    - You split two 12-hour midnight shifts working six hours as the Unit 1 NSO and the other six hours as a clearance order writer during a maintenance outage on November 10th and 11th.
    - You covered two 8-hour Day shifts as a Unit 2 NSO on October 23rd and 24th.
    - All shifts covered were entered in the Shift Manager Log.

INITIATING CUE

The Shift Manager has directed you to document your shift coverage for the 4th Quarter of 2022, evaluate your standing as an active Licensed RO, and determine your ability to assume shift for January 2, 2023. Notify the Shift Manager of your status and any additional requirements prior to the end of the 4th quarter when complete.

Job Performance Measure

REPORTING EMERGENCIES

JPM Number: A-RO-17

Revision Number: 04

Date: 12/12/2022

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

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

Exelon Generation

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: LAP-950-3 Revision: 11
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM for ILT 02-01 exam
Revision 01	Revised LAP-950-3 rev number to (1) and changed task number to reflect current task list (722.020 to 722.010).
Revision 02	Updated to current revision of LAP-950-3.
Revision 03	Updated to current revision of LAP-950-3. Updated K/A reference. Updated Task reference.
Revision 04	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.

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

1. Have a copy of LAP-950-3 – Handling Personnel Injuries

Exelon Generation

INITIAL CONDITIONS

You are an Extra NSO.

- U-1 and U-2 have both scrammed. The Shift Manager and both Unit Supervisors are not available due to implementation of LGA's.
- You have received a call from Ext. 2211, the LaSalle Station Emergency Telephone Extension. The following information is reported:

1. Bill Smith, a contractor, has slipped in the Service Building Trackway and his ankle is broken.
2. He is not contaminated.
3. I am calling from Ext. 4444.

INITIATING CUE

The Shift Manager has informed you to perform the actions to handle the injury IAW LAP-950-3, “Handling Personnel Injuries”. Inform the Shift Manager after the Nursing Supervisor at the hospital has been informed.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will notify Emergency Services for an injured personnel up to and including the Nursing Supervisor IAW LAP-950-3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
Note: After Candidate identifies where the procedure can be obtained, provide Candidate with a copy of LAP-950-3.					
1	Obtain a copy of LAP-950-3, Handling Personnel Injuries	Candidate demonstrates where to obtain a copy of the procedure	☐	☐	___
Note: Inform the Candidate that phone numbers will be simulated. You, as the evaluator, will respond as needed.					
*2	Notifies Rad Protection at 2241 and the Nurse at 4204 for first aid and radiological assistance.	Candidate notifies Rad Protection and the Nurse.	☐	☐	___
CUE	As RP and the Nurse, acknowledge the report.				
*3	Designates an individual to assume command and control at the scene. This will normally be the Field Supervisor.	Candidate directs an individual to assume command and control at the scene. This will normally be the Field Supervisor.	☐	☐	___
CUE	As the individual selected by the Candidate, inform the Candidate that you will head to the scene to assume command and control.				
*4	Notifies the Seneca Emergency Services at 911 or (815) 942-0336 to send an ambulance to the station address: 2601 North 21st Road Marseilles, Illinois 61341-9757	Candidate notifies Seneca Emergency Services.	☐	☐	___

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Task Standard:
Candidate will notify Emergency Services for an injured personnel up to and including the Nursing Supervisor IAW LAP-950-3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	As Seneca Emergency Services, inform Candidate that someone is available and the ambulance will be dispatched immediately. Inform the Candidate that a Time Compression is in effect. 5 minutes have elapsed and Seneca Emergency Services has informed you that an ambulance is in route.				
5	Verify Seneca Emergency Services has sent an ambulance to the station within 15 minutes by: • Call-back from Seneca Emergency Services stating that an ambulance is in route. • Calling the Seneca Emergency Services and requesting the status of the ambulance requested.	Candidate verifies status of the ambulance by the cue provided above of a call back from Seneca Emergency Services stating that an ambulance is in route.	☐	☐	___
6	If the Seneca Ambulance Service cannot be reached, then CALL the Marseilles Area Ambulance Service by dialing 911 for an ambulance.	Candidate determines this step is N/A.	☐	☐	___
*7	Notify Security at 2940 that an ambulance has been called to respond to the station.	Candidate notifies Security.	☐	☐	___
CUE	As Security, acknowledge report.				
8	Verify status of the victim from the Field Supervisor, Nurse, or Rad Protection at the scene.	Candidate verifies status of the injured person from the Field Supervisor	☐	☐	___
CUE	As the Field Supervisor, report that the contractor appears to have a broken ankle and is not contaminated. He is in a great deal of pain, but the injury is not life threatening.				

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Task Standard: Candidate will notify Emergency Services for an injured personnel up to and including the Nursing Supervisor IAW LAP-950-3.					
STEP	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
9	Verify with Rad Protection whether or not the victim is leaving the station contaminated prior to calling the hospital.	Candidate determines victim is not contaminated.	☐	☐	___
*10	Notify the appropriate hospital: • Morris Community Hospital, (815) 942-2129 (emergency) or (815) 942-2932 (non-emergency). • Presence St. Joseph Medical Center in Joliet 815-741-7660 (emergency) and 815-725-7133 x7077 (non-emergency).	Candidate calls one of the listed hospitals.	☐	☐	___
*11	Inform the individual answering the phone to put you in contact with the Nursing Supervisor or designee immediately. The Nursing Supervisor or designee must be told the nature or extent of the injury and if the person is not contaminated, potentially contaminated or contaminated.	Candidate notifies Nursing Supervisor of the extent of the injury and that the person is not contaminated.	☐	☐	___
CUE	When the hospital is called, answer the call as the Nursing Supervisor. As the Nursing Supervisor, acknowledge the information from the Candidate				

Exelon Generation

Task Standard: Candidate will notify Emergency Services for an injured personnel IAW LAP-950-3.					
12	Inform Shift Manager that Nursing Supervisor has been informed.	Shift Manager informed.	☐	☐	___
CUE	Acknowledge report, JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: REPORTING EMERGENCIES

JPM Number: A-RO-17 Revision Number: 04

Task Number and Title: 722.010 Given a postulated personnel injury, complete the required administrative sections related to personnel injury IAW LAP-950-3.

Task Standard: Candidate will notify Emergency Services for an injured personnel up to and including the Nursing Supervisor IAW LAP-950-3.

K/A Number and Importance: 2.4.38 2.4/4.4

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LAP-950-3	Revision:	11
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 ☐ No

The 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 NSO.

- U-1 and U-2 have both scrammed. The Shift Manager and both Unit Supervisors are not available due to implementation of LGA's.
- You have received a call from Ext. 2211, the LaSalle Station Emergency Telephone Extension. The following information is reported:

1. Bill Smith, a contractor, has slipped in the Service Building Trackway and his ankle is broken.
2. He is not contaminated.
3. I am calling from Ext. 4444.

INITIATING CUE

The Shift Manager has informed you to perform the actions to handle the injury IAW LAP-950-3, “Handling Personnel Injuries”. Inform the Shift Manager after the Nursing Supervisor at the hospital has been informed.

Exelon Generation

Job Performance Measure

Calculate Reactor Coolant System Leakage

JPM Number: A-RO-26

Revision Number: 00

Date: 12/14/2022

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

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

Exelon Generation

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: LOS-AA-S101 Revision: 119
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM
Revision 01	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.

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

1. Have a copy of LOS-AA-S101.
2. Have a copy of LOS-AA-S101 Attachment A pages 54-55 partially filled out for Candidate handout.
3. Have an Answer key prepared for grading.
4. Calculator.

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INITIAL CONDITIONS

You are the Assist NSO,

- The current time is 1600 Shift 3.
- DWEDS discharge flow totalizer reading at 1600 (Shift 3) is 4353356.
- 1UR-RF002 DWFDS Fill-Up Rate/Dsch Flow recorder is inoperable.
- 1UR-RF002 Totalizer is still functioning .
- The Unit 1 Gravity Drain Fill Up Rate Monitor is in operation.
- DC voltage reading taken today at 1600 from 1PM13J TB 34-10 to TB 34-11 is 2.64V.
- DWFDS Totalizer reading at 1600 (Shift 3) is 12,123.

INITIATING CUE

Calculate Reactor Coolant System Leakage IAW LOS-AA-S101, Unit 1 Shiftly Surveillance, Attachment A and inform the Unit Supervisor of results.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101. **Key Provided.**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
Note: Provide student copy of partial LOS-AA-S101 Attachment A					
1	RECORD the following information on the DWEDS Sump: • Discharge flow totalizer reading from Shift 3 on previous day. • Times those readings were taken. • GPM figures for Shift 1 and 2 from previous 24 hours.	Candidate determines step was completed Shift 1.	☐	☐	___
*2	RECORD present DWEDS discharge flow totalizer reading from 1UR-RE001 and time reading was taken at approximately 8 hour intervals during shift.	Candidate records reading from the Initial Conditions in to the DWEDS Calculations for Today's Data Shift 3 Totalizer Column. Totalizer value___4353356___	☐	☐	___
3	If the totalizer is inoperable, EC 617711 provides that the GPM value can be determined by taking a DC voltage reading from 1PM13J TB 35-1 to TB 35-2 and converting this signal to GPM with the following formula.	Candidate DETERMINES the DWEDS totalizer is operable, and this step is N/A.	☐	☐	___

Exelon Generation

Task Standard:
Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101. **Key Provided.**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*4	CALCULATE Identified Leakage approximately every 8 hours by using the 8 hr. difference in total readings and dividing by 480 minutes. CALCULATE the Identified Leakage in GPM and RECORD in appropriate location.	Candidate CALCULATES and RECORDS results into DWEDS Calculations for Today's Data Shift 3 GPM column. (4353356-4352254)/480 GPM__2.3__	☐	☐	___
5	DETERMINE value of Unidentified Leakage (DWFDS) every 8 hours as follows:	Candidate DETERMINES value of Unidentified Leakage (DWFDS) every 8 hours as follows:			
6	RECORD the DWFDS Sump Fill-up Rate from 1UR-RF002 (record both pens if the Gravity Drain Fill-up Rate Monitor is in operation) and the time the reading was taken at approximately 8 hour intervals during the shift.	Candidate DETERMINES 1UR-RF002 is inoperative and uses the guidance in E.1.8.7.1.1 to determine Fill-up Rate.	☐	☐	___
*7	If 1UR-RF002 DWFDS Fill-Up Rate/Dsch Flow Recorder is inoperative: o EC 368200 provides that the GPM value can be determined by taking a DC voltage reading from 1PM13J TB 34-10 to TB 34-11 and converting this signal to GPM with the following formula: Reading (GPM) = (Voltage Reading – 1) times 2.5 GPM	Candidate DETERMINES voltage from initial conditions and CALCULATES Fill-up Rate. (2.64v – 1) times 2.5 GPM= _4.1_ GPM	☐	☐	___

Exelon Generation

Task Standard:
Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101. **Key Provided.**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
8	RECORD the following information on the DWFDS Sump: • Discharge DWFDS Sump Fill-up Rate reading from Shift 3 on the previous day and the time reading was taken. • GPM and times for Shift 1 and 2 from the previous 24 hours.	Candidate RECORDS reading from initial conditions in to the Alternate DWFDS Calculations for Today's Data 1600 Totalizer Column. Totalizer value___12,123___	☐	☐	___
NOTE	When the Gravity Drain Fill-up Rate Monitor is in operation, the following method may still be performed by starting at step E.1.8.7.2.4. All of the steps prior to E.1.8.7.2.4. may be marked N/A.				
9	When the sump pumps down (or approximately every 4 hours when the Gravity Drain Fill-up Rate Monitor is in operation) CALCULATE the leakage as follows: • RECORD the date/time that the current pumpdown started and stopped (or N/A the Pumpdown Start and Stop date/time when the Gravity Drain Fill-up Rate Monitor is in operation).	Candidate marks Pumpdown Start and Stop columns as N/A.	☐	☐	___
*10	DETERMINE the gallons per one of the following: (Preferred) SUBTRACT the previous totalizer reading from the current reading.	Candidate CALCULATES Unidentified Leakage by SUBTRACTING the previous totalizer reading from the current reading. 12,123 – 11,139= 984 Gallons	☐	☐	___

Exelon Generation

Task Standard:
Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101. **Key Provided.**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*11	CALCULATE the GPM by dividing the gallons pumped by the Current Pumpdown Start Time (or current time) minus the previous Last Pumpdown Stop Date/Time (or previous time). GPM = Gallons Pumped / Ts - To	Candidate CALCULATES the GPM by dividing the gallons pumped by the Current Pumpdown Start Time (or current time) minus the previous Last Pumpdown Stop Date/Time (or previous time): GPM = 984 gallons / 240 minutes GPM = 4.1	☐	☐	___
12	If DWFDS totalizer has increased: • If the Gravity Drain Fill-up Rate Monitor caused the totalizer to advance, the totalizer values may be used to calculate Unidentified leakage at any time.	Candidate DETERMINES DWFDS Totalizer has increased and the Gravity Drain Fill-up Rate Monitor caused the totalizer to advance so the totalizer values can be used to calculate Unidentified leakage.	☐	☐	___
*13	COMPARE the values from Preferred and Alternate Unidentified Leakage figures. INVESTIGATE any large discrepancies of 1 GPM or more.	Candidate IDENTIFIES difference between Preferred and Alternate is < 1GPM.	☐	☐	___
*14	If DWFDS Totalizer is INOP, RECORD DWFDS Fill-up rate recorder value (use the highest value if both pens are in operation) once per 8 hours on Attachment A under GPM.	Candidate DETERMINES the Fill-up Rate is 4.1 GPM and records is GPM column.	☐	☐	___

Exelon Generation

Task Standard:
Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101. **Key Provided.**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
15	CHECK that Unidentified Leakage is less than or equal to 5 gpm.	Candidate DETERMINES that Unidentified Leakage is less than 5 gpm.	☐	☐	___
16	**Mode 1,** CHECK that Unidentified Leakage has NOT increased 2 gpm in last 24 hours by COMPARING current Unidentified Leakage Rate to leakage rates over last 24 hours.	Candidate VERIFIES Unidentified Leakage HAS increased more than 2 GPM over last 24 hours.	☐	☐	___
17	DETERMINE and RECORD value of Total Leakage by adding value of: • Identified Leakage—use higher value obtained from each shift. • Unidentified Leakage—use highest value obtained for each shift, whether preferred or alternate.	Candidate CALCULATES Identified and Unidentified leakage: Identified 2.3 GPM Unidentified 4.1 GPM 6.4 GPM	☐	☐	___
18	CHECK that total leakage is ≤ 25 GPM.	Candidate VERIFIES total leakage ≤ 25 GPM by summing identified and unidentified leakage.	☐	☐	___
*19	Inform Unit Supervisor.	Candidate informs Unit Supervisor that calculations are completed with portions UNSAT.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

Answer Key

ATTACHMENT A (Continued)

UNIT 1 SHIFTLY SURVEILLANCE FOR MODE 1, 2, OR 3

DWEDS Calculation				
E.1.8	Shift	Time	Totalizer	GPM
Previous Day's Data	Shift 1	0000	N/A	2.3
	Shift 2	0800	N/A	2.3
	Shift 3	1600	4350041	2.3
Today's Data	Shift 1	0000	4351147	2.3
	Shift 2	0800	4352254	2.3
	Shift 3	1600	4363356	2.3

Preferred DWFDS Calculation				
E.1.8	Shift	Time	Fill-up Rate (1UR-RF002)** Red Ind.	Blue Ind.*
Previous Day's Data	Shift 1	0000	1.77 V	1.9
	Shift 2	0800	1.77 V	1.9
	Shift 3	1600	1.77 V	1.9
Today's Data	Shift 1	0000	1.77V	1.9
	Shift 2	0800	1.80 V	2.0
	Shift 3	1600	2.64 V	4.1

* If the Gravity Drain Fill-up Rate Monitor is NOT in operation, 1UR-RF002 blue indicator steps are N/A.

** If 1UR-RF002 is inoperative, use the guidance in E.1.8.7.1.1 to determine FUR. Log the voltage in the Red Ind column and the calculated FUR in the Blue Ind column. If using 1FE-RF005, log the GPM in the Blue indication column. Blue indicator should be DWFDS MAG DSCH FLOW trend.

Alternate DWFDS Calculation						
E.1.8	Time	Pump Down Start Date/Time	Pump Down Stop Date/Time Note 1	Totalizer	Gallons Pumped	GPM Note 1
Previous Day's Data	0000	N/A	N/A	N/A	N/A	1.8
	0400	N/A	N/A	N/A	N/A	1.8
	0800	N/A	N/A	N/A	N/A	1.8
	1200	N/A	N/A	N/A	N/A	1.8
	1600	N/A	N/A	8840	N/A	1.8
	2000	N/A	N/A	9276	N/A	1.8
Today's Data	0000	N/A	N/A	9712	436	1.8
	0400	N/A	N/A	10159	447	1.9
	0800	N/A	N/A	10619	460	1.9
	1200	N/A	N/A	11139	520	2.2
	1600	N/A	N/A	12123	984	4.1
	2000					

Note 1: If Unit is starting up after an outage, Pump down Stop Date/Time should be Date/Time Unit entered mode 2 and "GPM" will be N/A until the first pump down.

Level of Use
Continuous

Exelon Generation

Answer Key

ATTACHMENT A (Continued)

UNIT 1 SHIFTLY SURVEILLANCE FOR MODE 1, 2, OR 3

E.1.8	Unidentified Leakage (Cont.)	1	2	3
(✓)	If totalizer increased due to DWFDS pump discharge flow (green indicator), CHECK DWFDS discharge flowrate >13 gpm.	N/A	N/A	N/A
(✓)	CHECK difference between Preferred and Alternate Unidentified Leakage is < 1 gpm	✓	✓	✓
(✓)	Unidentified Leakage is ≤ 5 gpm	✓	✓	✓
(✓)	**MODE 1**, Unidentified Leakage has NOT increased 2 gpm in last 24 hrs.	✓	✓	UNSAT
	RECORD Total Leakage use highest values recorded for identified/unidentified and CHECK ≤ 25 gpm	4.2	4.3	6.4
E.1.9	**1PM10J**			
(✓)	Channel Check Wind Direction 200' and 375'	✓		
(✓)	Channel Check Wind Speed 200' and 375'	✓		
(✓)	Channel Check Diff Temp 33/375' (or 33/200')	✓		
E.1.10	**1N62-P600**			
(✓)	Channel Check OG H2 Level and check < 4%	✓		

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: **Error! Reference source not found.**

JPM Number: A-RO-26 Revision Number 01

Task Number and Title: 53.003 Check the Reactor Coolant System Leakage IAW LOS-AA-S101(S201)

Task Standard: Candidate will take data from the Initial Conditions and calculate Identified Leakage using the normal method and Unidentified Leakage using the alternate method to determine Unidentified Leakage has risen more than allowed per LOS-AA-S101.

K/A Number and Importance: 2.1.19 3.9

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOS-AA-S101	Revision:	119
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 ☐ No

The 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**: _____

ATTACHMENT A (Continued)

UNIT 1 SHIFTLY SURVEILLANCE FOR MODE 1, 2, OR 3

DWEDS Calculation				
E.1.8	**Shift**	**Time**	**Totalizer**	**GPM**
Previous Day's Data	Shift 1	0000	N/A	2.3
	Shift 2	0800	N/A	2.3
	Shift 3	1600	4350041	2.3
Today's Data	Shift 1	0000	4351147	2.3
	Shift 2	0800	4352254	2.3
	Shift 3	1600		

Preferred DWFDS Calculation				
E.1.8	**Shift**	**Time**	**Fill-up Rate (1UR-RF002)****	
			Red Ind.	**Blue Ind.***
Previous Day's Data	Shift 1	0000	1.77 V	1.9
	Shift 2	0800	1.77 V	1.9
	Shift 3	1600	1.77 V	1.9
Today's Data	Shift 1	0000	1.77V	1.9
	Shift 2	0800	1.80 V	2.0
	Shift 3	1600		

* If the Gravity Drain Fill-up Rate Monitor is NOT in operation, 1UR-RF002 blue indicator steps are N/A.

** If 1UR-RF002 is inoperative, use the guidance in E.1.8.7.1.1 to determine FUR. Log the voltage in the Red Ind column and the calculated FUR in the Blue Ind column. If using 1FE-RF005, log the GPM in the Blue indication column. Blue indicator should be DWFDS MAG DSCH FLOW trend.

Alternate DWFDS Calculation						
E.1.8	**Time**	**Pump Down Start Date/Time**	**Pump Down Stop Date/Time Note 1**	**Totalizer**	**Gallons Pumped**	**GPM Note 1**
Previous Day's Data	0000	N/A	N/A	N/A	N/A	1.8
	0400	N/A	N/A	N/A	N/A	1.8
	0800	N/A	N/A	N/A	N/A	1.8
	1200	N/A	N/A	N/A	N/A	1.8
	1600	N/A	N/A	8840	N/A	1.8
	2000	N/A	N/A	9276	N/A	1.8
Today's Data	0000	N/A	N/A	9712	436	1.8
	0400	N/A	N/A	10159	447	1.9
	0800	N/A	N/A	10619	460	1.9
	1200	N/A	N/A	11139	520	2.2
	1600					
	2000					

Note 1: If Unit is starting up after an outage, Pump down Stop Date/Time should be Date/Time Unit entered mode 2 and "GPM" will be N/A until the first pump down.

Level of Use
Continuous

SRRS: 3D.100; There are no retention requirements for this section

ATTACHMENT A (Continued)

UNIT 1 SHIFTLY SURVEILLANCE FOR MODE 1, 2, OR 3

E.1.8	Unidentified Leakage (Cont.)	1	2	3
(✓)	If totalizer increased due to DWFDS pump discharge flow (green indicator), CHECK DWFDS discharge flowrate >13 gpm.	N/A	N/A	
(✓)	CHECK difference between Preferred and Alternate Unidentified Leakage is < 1 gpm	✓	✓	
(✓)	Unidentified Leakage is ≤ 5 gpm	✓	✓	
(✓)	**MODE 1**, Unidentified Leakage has NOT increased 2 gpm in last 24 hrs.	✓	✓	
	RECORD Total Leakage use highest values recorded for identified/unidentified and CHECK ≤ 25 gpm	4.2	4.3	
E.1.9	**1PM10J**			
(✓)	Channel Check Wind Direction 200' and 375'	✓		
(✓)	Channel Check Wind Speed 200' and 375'	✓		
(✓)	Channel Check Diff Temp 33/375' (or 33/200')	✓		
E.1.10	**1N62-P600**			
(✓)	Channel Check OG H2 Level and check < 4%	✓		

SRRS: 3D.100; There are no retention requirements for this section

INITIAL CONDITIONS

You are the Assist NSO,

- The current time is 1600 Shift 3.
- DWEDS discharge flow totalizer reading at 1600 (Shift 3) is 4353356.
- 1UR-RF002 DWFDS Fill-Up Rate/Dsch Flow recorder is inoperable.
- 1UR-RF002 Totalizer is still functioning .
- The Unit 1 Gravity Drain Fill Up Rate Monitor is in operation.
- DC voltage reading taken today at 1600 from 1PM13J TB 34-10 to TB 34-11 is 2.64V.
- DWFDS Totalizer reading at 1600 (Shift 3) is 12,123.

INITIATING CUE

Calculate Reactor Coolant System Leakage IAW LOS-AA-S101, Unit 1 Shiftly Surveillance, Attachment A and inform the Unit Supervisor of results.

Job Performance Measure

JPM Number: A-RO-34

Revision Number: 01

Date: 1/30/2023

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

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

Exelon Generation

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: M-71 Sheet 1 Revision: BF
   Procedure: M-71 Sheet 2 Revision: Y
   Procedure: OP-AA-109-101 Revision: 18
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	This JPM was developed new for ILT 09-1 NRC Exam.
Revision 01	This JPM was revised for the ILT 22-1 NRC Exam. Updated to new JPM Template and procedure revisions.

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

1. VERIFY referenced prints are available, M-71 Sheet 1 and Sheet 2, and are free of any markings.
2. Copy of OP-AA-109-101.

Exelon Generation

INITIAL CONDITIONS

You are an extra NSO,

- Fire Hose Reel FB 233 in the Lake Screen House was discovered damaged and leaking water
- Outside Rounds was directed to close 0FP069 but the valve will not close
- PassPort and eSOMS are currently unavailable due to server issues

INITIATING CUE

The Unit Supervisor has directed you to Independently Verify the isolation points and required hang positions to isolate Hose Reel FB 233 using drawings M-71 Sheet 1 & 2 as required. Inform the Unit Supervisor all isolation points and hang positions have been identified.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will use mechanical P&ID diagrams to identify isolation points and tag hang positions to isolate a Fire Protection Hose Reel IAW drawings M-71 Sheet 1 & 2 as identified on Answer Key.

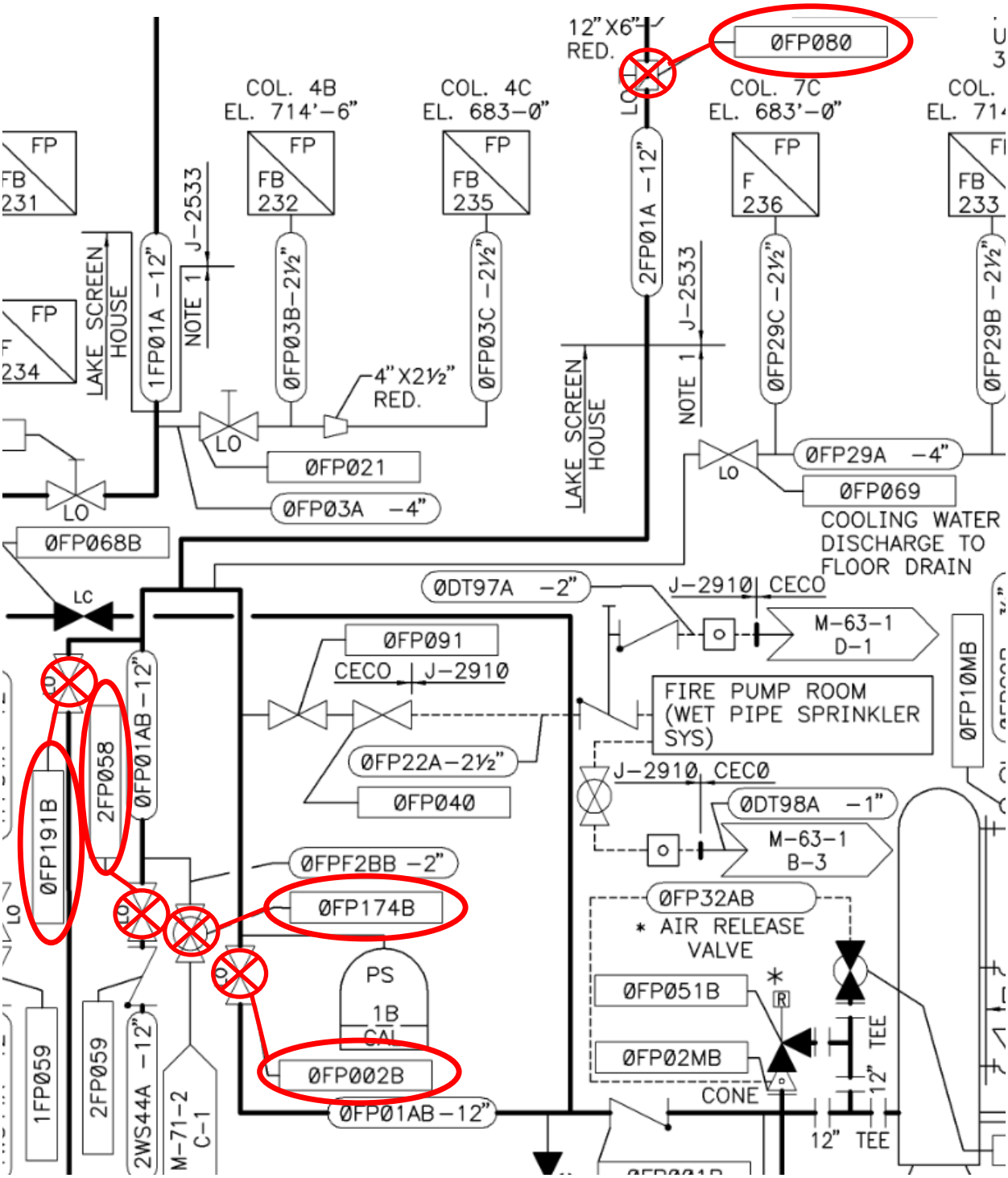
STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	Provide prints to Candidate once the JPM is started. Steps can be performed in any sequence.				
*1	Identify valve 0FP002B must be taken OOS in the closed position.	Candidate IDENTIFIES valve 0FP002B must be taken OOS in the closed position.	☐	☐	___
*2	Identify valve 0FP080 must be taken OOS in the closed position.	Candidate IDENTIFIES valve 0FP080 must be taken OOS in the closed position.	☐	☐	___
*3	Identify valve 0FP174B must be taken OOS in the closed position.	Candidate IDENTIFIES valve 0FP174B must be taken OOS in the closed position.	☐	☐	___
*4	Identify valve 0FP191B must be taken OOS in the closed position.	Candidate IDENTIFIES valve 0FP191B must be taken OOS in the closed position.	☐	☐	___
*5	Identify valve 2FP058 must be taken OOS in the closed position.	Candidate IDENTIFIES valve 2FP058 must be taken OOS in the closed position.	☐	☐	___
6	Inform the Unit Supervisor.	Candidate informs the Unit Supervisor of identified components and required positions.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

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

Exelon Generation

ANSWER KEY



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

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Print Reading Exercise

JPM Number: A-RO-34 Revision Number: 01

Task Number and Title: 801.000 Given a Clearance Order Request, process the request and create a Clearance Order Checklist that accomplishes the request in accordance with OP-AA-109-101.

Task Standard: Candidate will use mechanical P&ID diagrams to identify isolation points and tag hang positions to isolate a Fire Protection Hose Reel IAW drawings M-71 Sheet 1 & 2 as identified on Answer Key.

K/A Number and Importance: Generic 2.2.41 3.5/3.9

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	M-71 Sheet 1	Revision:	BF
Procedure:	M-71 Sheet 2	Revision:	Y
Procedure:	OP-AA-109-101	Revision:	18
Procedure:		Revision:	

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 ☐ No

The 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 an extra NSO,

- Fire Hose Reel FB 233 in the Lake Screen House was discovered damaged and leaking water
- Outside Rounds was directed to close 0FP069 but the valve will not close
- PassPort and eSOMS are currently unavailable due to server issues

INITIATING CUE

The Unit Supervisor has directed you to Independently Verify the isolation points and required hang positions to isolate Hose Reel FB 233 using drawings M-71 Sheet 1 & 2 as required. Inform the Unit Supervisor all isolation points and hang positions have been identified.

.

Job Performance Measure

Review Surveillance and Determine Required Action

JPM Number: A-SRO-23

Revision Number: 01

Date: 12/05/2022

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

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

Exelon Generation

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: LOS-RI-Q1 Revision: 54
   Procedure: ER-AA-321 Revision: 14
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM for ILT, variation of ASRO11r01
Revision 01	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision

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

1. The following material is required to be provided to Candidate:
    - One copy of LOS-RI-Q1 att. 1A, pages 8 through 15 with applicable sheets from IST Surveillance Acceptance Criteria Manual. The data should be filled up to the US review. The stroke time of 1E51-F025 must be in the Maximum Alert range.

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. The following material may be located and utilized by the Candidate:
    - LOS-RI-Q1, Unit 1 Reactor Core Isolation Cooling System Valve Inservice Testing
    - ER-AA-321, Administrative Requirements for Inservice Testing
    - Unit 1 Technical Specifications

Exelon Generation

INITIAL CONDITIONS

You are the Unit Supervisor,

- The Unit 1 NSO has just completed LOS-RI-Q1 Attachment 1A as scheduled by the normal surveillance schedule.

INITIATING CUE

Review the results and inform the Shift Manager of acceptability and any required actions.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate reviews completed surveillance and finds an out of tolerance reading and determines required action to retest IAW ER-AA-321.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1	Reviews the surveillance to verify all information is filled out on the attachment.	Candidate verifies all spaces are filled in on the attachment sheet.	☐	☐	___
*2	Reviews the surveillance to verify all readings are within limits as specified in the procedure.	Candidate determines that the stroke time for 1E51-F025 is in the maximum alert range.	☐	☐	___
CUE	As Unit Supervisor, if required, inform the Candidate to determine required actions.				
3	Refers to ER-AA-321, Administrative Requirements for Inservice Testing for applicable actions.	Candidate refers to ER-AA-321, Administrative Requirements for Inservice Testing for applicable actions.	☐	☐	___
4	Identifies the applicable actions per ER-AA-321, Attachment 2.	Candidate refers to ER-AA-321, Administrative Requirements for Inservice Testing for applicable actions.	☐	☐	___
*5	Determine 1E51-F025 is not within IST limits and must be re-stroked.	Candidate determines that 1E51-F025 must be re-stroked.	☐	☐	___
6	Inform Shift Manager.	Reports findings to Shift Manager.	☐	☐	___
CUE	Acknowledge report, JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Review Surveillance and Determine Required Action

JPM Number: A-SRO-23 Revision Number: 01

Task Number and Title: 657.010 Given the proper procedure, the applicable sheets from the LaSalle IST Surveillance Acceptance Criteria Manual and component test data, evaluate whether the component is operable, and if not initiate the appropriate corrective actions.

Task Standard: Candidate reviews completed surveillance and finds an out of tolerance reading and determines required action to retest IAW ER-AA-321.

K/A Number and Importance: 2.2.12 4.1

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOS-RI-Q1	Revision:	54
Procedure:	ER-AA-321	Revision:	14
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 ☐ No

The 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 Supervisor,

- The Unit 1 NSO has just completed LOS-RI-Q1 Attachment 1A as scheduled by the normal surveillance schedule.

INITIATING CUE

Review the results and inform the Shift Manager of acceptability and any required actions.

Job Performance Measure

Determine Offsite Release Rate and if Release is in Progress

JPM Number: A-SRO-41

Revision Number: 02

Date: 12/06/2022

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

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

Exelon Generation

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: LGA-009 Revision: 9
   - Procedure: LOA-PR-101 Revision: 20
   - Procedure: EP-AA-114-F-02 Revision: A
   - Procedure: EP-AA-1005 Add. 3 Revision: 9
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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM, created from A-RO-02 to include SRO only tasks
Revision 01	Updated for ILT Class 13-01 Cert Exam. Revised to include the latest JPM template and procedure revisions.
Revision 02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revisions.

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

1. Verify the following material is available to the candidate:
    - LGA-009, Radioactivity Release Control
    - LOA-PR-101, Unit 1 Process Rad Monitoring System Abnormal
    - Shift Emergency Director Books 1 & 2

Exelon Generation

INITIAL CONDITIONS

You are an Extra SRO,

- Both Units are at rated conditions.
- A Multi-Purpose Canister (MPC) has ruptured discharging highly contaminated material on Unit 1 RB 710'.
- On 0PM14J, OD18-R522, STACK WRGM EFF ACT, is reading 4.5e+07 μCi/sec.
- On 1PM07J, OD18-R520, SBGT WRGM EFF ACT, is reading 3.8e+07 μCi/sec.
- VR has isolated.
- Unit 2 VG failed to start.
- Unit 1 VG is running.

INITIATING CUE

The Shift Manager has requested that you determine stack release. Inform the Shift Manager when stack release has been determined and whether or not there is a release is in progress.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will calculate Stack effluent and determine that a release is in progress IAW LOA-PR-101 and EP-AA-114-F-02.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1	Determine stack release from ventilation systems other than SBGT.	Candidate determines Main Stack WRGM effluent is 4.5e+07 μCi/sec.	☐	☐	___
2	Determine stack release from SBGT.	Candidate determines SBGT WRGM effluent is 3.8e+07 μCi/sec.	☐	☐	___
*3	Determine total release rate.	Candidate adds two releases from Main Stack and SBGT WRGMs and determines total release rate is 8.3e+07 μCi/sec.	☐	☐	___
*4	Determine if a release is in progress.	Candidate determines that there IS a release in progress per EP-AA-114-F-02.	☐	☐	___
5	Inform Unit Supervisor.	Candidate informs Shift Manager that total release is 8.3e+07 μCi/sec, and that there is a release in progress.	☐	☐	___
CUE	Acknowledge report, JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Determine Offsite Release Rate and if Release is in Progress

JPM Number: A-SRO-41 Revision Number: 02

Task Number and Title: 52.035 Given high rad levels resulting in an entry into LGA-009, respond to a High Rad Release rate in accordance with LOA-PR-101, LGA-009.

Task Standard: Candidate will calculate Stack effluent and determine that a release is in progress IAW LOA-PR-101 and EP-AA-114-F-02.

K/A Number and Importance: 2.3.5 2.9

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LGA-009	Revision:	9
Procedure:	LOA-PR-101	Revision:	20
Procedure:	EP-AA-114-F-02	Revision:	A
Procedure:	EP-AA-1005 Add. 3	Revision:	9

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 ☐ No

The 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 an Extra SRO,

- Both Units are at rated conditions.
- A Multi-Purpose Canister (MPC) has ruptured discharging highly contaminated material on Unit 1 RB 710'.
- On 0PM14J, OD18-R522, STACK WRGM EFF ACT, is reading 4.5e+07 μCi/sec.
- On 1PM07J, OD18-R520, SBGT WRGM EFF ACT, is reading 3.8e+07 μCi/sec.
- VR has isolated.
- Unit 2 VG failed to start.
- Unit 1 VG is running.

INITIATING CUE

The Shift Manager has requested that you determine stack release. Inform the Shift Manager when stack release has been determined and whether or not there is a release is in progress.

Job Performance Measure

JPM Number: A-SRO-51

Revision Number: 03

Date: 12/06/2022

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

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

Exelon Generation

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: OP-AA-106-101 Revision: 25
   Procedure: LS-AA-1020 Revision: 34
   Procedure: LS-AA-1110 Revision: 33
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM developed for LORT 2016 NRC Exam.
Revision 01	Updated for new procedure revisions.
Revision 02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 03	Minor editorial changes.

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 and OP-AA-106-101.

Exelon Generation

INITIAL CONDITIONS

You are the Shift Manager,

- Both Units are operating at 100% power
- On Unit 1, LOS-HP-Q1, HPCS System Inservice Test, is being performed
- Isolations have been RESET
- The Unit Supervisor has just informed you that the HPCS Minimum Flow Valve, 1E22-F012, will not open

INITIATING CUE

Determine the ENS requirements, if any, and any on-site/off-site notification requirements based on the above information. Inform the SOS of the requirements you determine.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will determine reportability requirements for inoperable safety related equipment IAW OP-AA-106-101 & LS-AA-1110.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*1	Determine reporting requirements IAW LS-AA-1020 and/or Reportable Event SAF 1.8 Declaration LS-AA-1110. SAF 1.8 is an 8 Hour Report per 10CFR50.72(b)(3)(v).	Candidate determines the event: • Is reportable per SAF 1.8 • Requires notifying the NRC via ENS within 8 hours (NRC Operations Center)	☐	☐	___
NOTE:	Candidate may also determine a 60 day LER is required per 10CFR50.73(a)(2)(v).				
*2	Determine notification requirements IAW OP-AA-106-101, Significant Event Reporting per Attachment 1 (ENS).	Candidate determines the following individuals require notification: • Site VP • Plant Manager • Operations Director • Nuclear Duty Officer • OPEX Coordinator / Regulatory Assurance Manager • Senior Resident Inspector	☐	☐	___
CUE	As SOS, acknowledge the report. JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Determine Reporting Requirements per OP-AA-106-101 (HPCS Inoperability)

JPM Number: A-SRO-51 Revision Number: 03

Task Number and Title: 604.010 Given events requiring information submission to either the NRC or the State of Illinois, determine notification requirements IAW LS-AA-1110

Task Standard: Candidate will determine reportability requirements for inoperable safety related equipment IAW OP-AA-106-101 & LS-AA-1110.

K/A Number and Importance: 2.4.30 4.1

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	OP-AA-106-101	Revision:	25
Procedure:	LS-AA-1110	Revision:	34
Procedure:	LS-AA-1020	Revision:	33
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 ☐ No

The 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 Shift Manager,

- Both Units are operating at 100% power.
- On Unit 1, LOS-HP-Q1, HPCS System Inservice Test, is being performed.
- Isolations have been RESET.
- The Unit Supervisor has just informed you that the HPCS Minimum Flow Valve, 1E22-F012, will not open.

INITIATING CUE

Determine the ENS requirements, if any, and any on-site/off-site notification requirements based on the above information. Inform the SOS of the requirements you determine.

Job Performance Measure

Complete a Short Duration Timeclock Sheet

JPM Number: A-SRO-57

Revision Number: 03

Date: 12/06/22

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

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

Exelon Generation

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: LIP-DG-903 Revision: 8
   Procedure: OP-AA-108-104 Revision: 4
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
00	New JPM developed for the LORT 2015 NRC Annual Exam.
01	Revised to most recent revision of TQ-AA-150-J020.
02	Converted to current JPM template and updated procedure references and task standard.
03	Revised to most recent revision of procedures.

SETUP INSTRUCTIONS:

1. The following material is required to be provided to Candidate:
   - A Blank copy of IM Surveillance LIP-DG-903, Unit 0 Diesel Generator 0 Fuel Oil Day Tank Level Switch and Indication Calibration.
   - Work Order Package (including WO# 05051970-01 and OP-AA-107-F-01 Risk Screening-Mitigation Plan).
   - A Blank Copy of the Short Duration Timeclock Log, Attachment 1 of OP-AA-108-104.
   - All Tech Spec Books.

Exelon Generation

INITIAL CONDITIONS

You are the Unit 1 Supervisor,

- Unit 1 is at rated conditions.
- IMD is ready to start a scheduled surveillance, LIP-DG-903, Unit 0 Diesel Generator 0 Fuel Oil Day Tank Level Switch and Indication Calibration.
- WEC SRO will handle any PBI's and contingency actions.
- No other surveillance activities are currently in progress.

INITIATING CUE

The Shift Manager has directed you to perform Shift Authorization to start work for WO # 05051970-01 and Authorize the Start of procedure per E.1.1. If required, prepare a Short Duration Timeclock Log for this procedure per OP-AA-108-104. Notify the Unit 1 NSO when step E.1.2 is ready for their review.

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 Candidate 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.

Exelon Generation

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

Task Standard: Candidate will review work package to determine and record appropriate short duration timeclocks to authorize start of procedure and start of work IAW LIP-DG-903 and OP-AA-108-104. **Key Provided**					
STEP	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
CUE	After the Candidate acknowledges the initial conditions, role play as an IMD Technician and provide the Candidate a blank copy of LIP-DG-903 and the Work Order Package and request approval to start work.				
Note:	After the Candidate demonstrates where to obtain a copy of the procedure, provide them with a copy of OP-AA-108-104.				
1	Obtain a copy of the procedure.	Candidate demonstrates where to obtain a copy of the procedure.	☐	☐	___
2	Review detail of surveillance's interface with plant provided on Attachment B.	Candidate reviews the details of the surveillance's interface with plant provided on Attachment B.	☐	☐	___
3	VERIFY that performance of this surveillance is compatible with current plant conditions, including other tests and maintenance in progress.	Candidate determines from the initial conditions that no other test or maintenance is being performed and is acceptable for LIP-DG-903 to be performed.	☐	☐	___
4	REFER to Technical Specification 3.8.1.	Candidate REFERS to Technical Specification 3.8.1.	☐	☐	___
*5	DETERMINE the Timeclocks that apply.	Candidate DETERMINES the Timeclocks apply: • T.S. 3.8.1 RA B.1 • T.S. 3.8.1 RA B.2 • T.S. 3.8.1 RA B.3.1 OR B.3.2 • T.S. 3.8.1 RA B.4	☐	☐	___

Exelon Generation

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

Task Standard:
Candidate will review work package to determine and record appropriate short duration timeclocks to authorize start of procedure and start of work IAW LIP-DG-903 and OP-AA-108-104. **Key Provided**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*6	RECORD the information on the Short Duration Timeclock sheet.	Candidate RECORDS the above timeclock information on the Short Duration Timeclock sheet.	☐	☐	___
*7	AUTHORIZE start of procedure.	Candidate AUTHORIZES start of the procedure by recording time, signature, and date on Step E.1.1.4 of LIP-DG-903.	☐	☐	___
8	AUTHORIZE start work.	Candidate AUTHORIZES start work by recording signature, date and time next to “Shift Authorization to start work” on the Work Order.	☐	☐	___
9	NOTIFY Unit 1 NSO surveillance is ready for their review.	Candidate NOTIFIES Unit 1 NSO surveillance is ready for their review.	☐	☐	___
CUE	As Unit 1 NSO, acknowledge the report. JPM is complete.				

JPM Stop Time: _____

ANSWER KEY

Attachment 1
Short Duration Time Clock Log
Page 1 of 1

UNIT: _0_ SURVEILLANCE NUMBER: LIP-DG-903 DATE: _____

ACTIONS REQUIRED TO PLACE INSTRUMENTS IN TRIPPED CONDITION:					
	TECH SPEC	TIME CLOCK START TIME	TIME CLOCK STOPPED TIME	INITIALS	COMMENTS
Perform offsite circuit lineup within 1 hour and Once per 8 hours thereafter	T.S. 3.8.1 RA B.1				
Declare required features supported by the INOP DG INOP when the redundant required feature is INOP 4 hours from the discovery of INOP redundant feature.	T.S. 3.8.1 RA B.2				
Determine OPERABLE DG(s) are not INOP due to common cause within 24 hrs OR Perform SR 3.8.1.2 for OP DG(s) within 24 hours	T.S. 3.8.1 RA B.3.1 Or RA B.3.2				
Restore the DG to OPERABLE within 14 days	T.S. 3.8.1 RA B.4				

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title:

JPM Number: A-SRO-57 Revision Number: 03

Task Number and Title: 747.010 During the performance of tasks, apply the administrative requirements of ON-LINE Maintenance, IAW OP-AA-101-111-1001

Task Standard: Candidate will review work package to determine and record appropriate short duration timeclocks to authorize start of procedure and start of work IAW LIP-DG-903 and OP-AA-108-104.

K/A Number and Importance: 2.2.23 3.1/4.6

Suggested Testing Environment: Classroom

Alternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LIP-DG-903	Revision:	08
Procedure:	OP-AA-108-104	Revision:	04
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 ☐ No

The 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 1 Supervisor,

- Unit 1 is at rated conditions.
- IMD is ready to start a scheduled surveillance, LIP-DG-903, Unit 0 Diesel Generator 0 Fuel Oil Day Tank Level Switch and Indication Calibration.
- WEC SRO will handle any PBI's and contingency actions.
- No other surveillance activities are currently in progress.

INITIATING CUE

The Shift Manager has directed you to perform Shift Authorization to start work for WO # 05051970-01 and Authorize the Start of procedure per E.1.1. If required, prepare a Short Duration Timeclock Log for this procedure per OP-AA-108-104. Notify the Unit 1 NSO when step E.1.2 is ready for their review.

Job Performance Measure

JPM Number: A-SRO-106

Revision Number: 00

Date: 11/13/22

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

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

Exelon Generation

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:	EP-AA-1005, Addendum 3	Revision:	9
Procedure:	EP-AA-111	Revision:	23
Procedure:	EP-AA-112-100-F-01	Revision:	AD
Procedure:	EP-MW-114-100	Revision:	20
Procedure:	EP-MW-114-100- F-01	Revision:	K

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

SRRS: 3D.100; There are no retention requirements for this section

Exelon Generation

Revision Record (Summary)

Revision #	Summary
00	New JPM developed for the ILT 21-1 class NRC Exam

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

1. Copy of EP-MW-114-100-F-01.
2. Have a clock available.
3. Have SED Books available.
4. Have EAL Boards.

INITIAL CONDITIONS

You are the Shift Manager,

- A condensate system rupture has occurred in the Turbine Building basement causing a loss of feedwater.
- The reactor failed to scram on low RPV water level.
- The ATC NSO reported that the reactor failed to scram when he pushed the Manual Scram Pushbuttons and it failed to scram when he placed the Mode Switch in Shutdown.
- ARI automatically initiated when RPV water level reached -50".
- All control rods are now at 00 and all APRM downscale lights are lit.
- RPV water level reached -65" and is now at -55" and rising with HPCS injecting. Reactor pressure is 920 psig and slowly lowering due to HPCS.
- Computer average wind speed at 375 feet is 10 mph from 200°.
- Stack radiation release levels have been constant for the last several hours.
- Dose projections are not available.
- The Shift Communicator is available to assist you.

INITIATING CUE

As the Shift Emergency Director, determine if the event needs to be classified and then, if necessary, classify the event, complete a NARS form, and direct the Shift Communicator to transmit the completed NARS form. Ensure 2 minutes is available for the Shift Communicator to complete transmission.

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

The timeclock starts when the candidate acknowledges the initiating cue.

Exelon Generation

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

Task Standard:
Candidate will evaluate conditions, determine EAL declaration, and complete a NARS form within the allotted time IAW the referenced EP procedures. **Key Provided**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	This JPM has two time critical portions: classifying the event **(15 minutes) and** completing a NARS form for transmission. T=0 for event classification is recorded in the "JPM Start Time" above and begins when the Candidate acknowledges the initial conditions and initiating cue and ends when the Candidate classifies the event. T=0 for the NARS form is Time Classified and ends with directing the Shift Communicator to transmit the form with 2 minutes allowed for transmission **(13 minutes)**.				
*1	Classify the event.	Candidate classifies the GSEP as an ALERT **MU3.** **Time Classified:_____**	☐	☐	___
NOTE	Once Candidate demonstrates where to find a NARS form, hand them the blank NARS form from the end of this JPM.				
2	Obtain blank NARS form.	Candidate demonstrates where NARS forms can be obtained.	☐	☐	___
3	In Utility Message block write **1**.	Candidate writes the number **1** in Utility Message block.	☐	☐	___
4	In State Message block write **N/A**.	Candidate writes the number **N/A** in State Message block.	☐	☐	___
*5	In Item 1, marks **B**.	Candidate marks Item 1 **B**.	☐	☐	___
*6	In Item 2, marks **E**.	Candidate marks Item 2 **E**.	☐	☐	___
*7	In Item 3, marks **A**.	Candidate marks Item 3 **A**.	☐	☐	___
*8	In Item 4, write (**time & date**) and EAL **MU3**.	Candidate writes (**time & date**) and **MU3** in Item 4.	☐	☐	___

Exelon Generation

Task Standard:
Candidate will evaluate conditions, determine EAL declaration, and complete a NARS form within the allotted time IAW the referenced EP procedures. **Key Provided**

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
9	In ACCIDENT TERMINATED section write **N/A** in each blank.	Candidate writes **N/A** in each blank of ACCIDENT TERMINATED section.	☐	☐	___
*10	In Item 5, marks **A**.	Candidate marks Item 5 **A**.	☐	☐	___
*11	In Item 6, marks **A**.	Candidate marks Item 6 **A**.	☐	☐	___
*12	In Item 7, write **200**.	Candidate writes **200** in Item 7.	☐	☐	___
*13	In Item 8 B, write **10**.	Candidate writes **10** in Item 8 B.	☐	☐	___
*14	In Item 9, mark **A**.	Candidate marks Item 9 **A**.	☐	☐	___
15	In Item 10, write "**none**".	Candidate writes "**none**" in Item 10.	☐	☐	___
16	Leave Items 11 and 12 blank.	Candidate leaves Items 11 and 12 blank.	☐	☐	___
17	DIRECT the Shift Communicator to transmit the completed NARS form.	Candidate DIRECTS the Shift Communicator to transmit the completed NARS form. **Time Completed:_____**			
CUE	Acknowledge report, JPM is complete.				

JPM Stop Time: _____

Exelon Generation

ANSWER KEY

NUCLEAR ACCIDENT REPORTING SYSTEM (NARS) FORM

OR ELECTRONIC FACSIMILE

UTILITY MESSAGE NO. 1 **STATE MESSAGE NO.** N/A

1. STATUS
[A] ACTUAL
(B) DRILL/EXERCISE

2. STATION
[A] BRAIDWOOD [C] CLINTON (E) LASALLE
[B] BYRON [D] DRESDEN [F] QUAD CITIES

3. ONSITE CONDITION
(A) UNUSUAL EVENT
[B] ALERT
[C] SITE AREA EMERGENCY
[D] GENERAL EMERGENCY
[E] RECOVERY
[F] TERMINATED

4. ACCIDENT CLASSIFIED
TIME (3[A-E]): Now
DATE (3[A-E]): Today
EAL#: MU3

ACCIDENT TERMINATED
TIME (3[F]): N/A
DATE (3[F]): N/A

5. RELEASE STATUS
(A) NONE
[B] OCCURRING
[C] TERMINATED

6. TYPE OF RELEASE
(A) NOT APPLICABLE
[B] GASEOUS
[C] LIQUID

7. WIND DIR
200
(DEGREES FROM)

8. WIND SPEED
[A] METERS/SEC.: N/A
(B) MILES/HR.: 10

9. RECOMMENDED ACTIONS

UTILITY RECOMMENDATION
(A) NONE (UE, Alert and SAE Only)

---------- (General Emergency Only) ----------
[B] SHELTER ILLINOIS SUB-AREAS: _____
[C] SHELTER IOWA SUB-AREAS: _____
[D] EVACUATE ILLINOIS SUB-AREAS: _____
[E] EVACUATE IOWA SUB-AREAS: _____
AND
ADVISE THE REMAINDER OF THE 10 MILE EPZ TO MONITOR AND PREPARE
AND
FOR ILLINOIS ONLY, CONSIDER JIC ADVISORY WITH POTASSIUM IODIDE (KI) STATEMENT IN ACCORDANCE WITH STATE PROCEDURES

STATE RECOMMENDATION
[F] NONE
[G] SHELTER SUB-AREAS: _____
[H] EVACUATE SUB-AREAS: _____
[I] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES
[J] COMMENCE RETURN OF PUBLIC
[K] OTHER _____

10. ADDITIONAL INFORMATION NONE

Verified With: _____ Approved By: _____

11. TRANSMITTED BY:	NAME	PHONE NUMBER	TIME/DATE
[A] EXELON:			
[B] STATE:			
[C] COUNTY:			

12. RECEIVED BY:	NAME	ORGANIZATION	TIME/DATE

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

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Classify a GSEP Event and Complete a NARS Form

JPM Number: A-SRO-106 Revision Number: 00

Task Number and Title: 708.001 Given an event resultant in the declaration of an emergency action level, classify the event, IAW EP-AA-1005

715.001 Given an event resultant in the declaration of an emergency action level, complete and transmit a NARS form, IAW EP-AA-114 and EP-MW-114-100

Task Standard: Candidate will evaluate conditions, determine EAL declaration, and complete a NARS form within the allotted time IAW the referenced EP procedures.

K/A Number and Importance: 2.4.41 4.6 Generic

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☒ Yes ☐ No Time Critical: ☒ Yes ☐ No

Reference(s):

Procedure:	EP-AA-1005, Addendum 3	Revision:	9
Procedure:	EP-AA-111	Revision:	23
Procedure:	EP-AA-112-100-F-01	Revision:	AD
Procedure:	EP-MW-114-100	Revision:	20
Procedure:	EP-MW-114-100- F-01	Revision:	K

Actual Testing Environment: ☒ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☒ Perform

Estimated Time to Complete: 28 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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)

NUCLEAR ACCIDENT REPORTING SYSTEM (NARS) FORM

OR ELECTRONIC FACSIMILE

UTILITY MESSAGE NO. _____ **STATE MESSAGE NO.** _____

1. STATUS
[A] ACTUAL
[B] DRILL/EXERCISE

2. STATION
[A] BRAIDWOOD [C] CLINTON [E] LASALLE
[B] BYRON [D] DRESDEN [F] QUAD CITIES

3. ONSITE CONDITION
[A] UNUSUAL EVENT
[B] ALERT
[C] SITE AREA EMERGENCY
[D] GENERAL EMERGENCY
[E] RECOVERY
[F] TERMINATED

4. ACCIDENT CLASSIFIED
TIME (3[A-E]): _____
DATE (3[A-E]): _____
EAL#: _____

ACCIDENT TERMINATED
TIME (3[F]): _____
DATE (3[F]): _____

5. RELEASE STATUS **6. TYPE OF RELEASE**
[A] NONE ⟷ [A] NOT APPLICABLE
[B] OCCURRING ⟷ [B] GASEOUS
[C] TERMINATED ⟷ [C] LIQUID

7. WIND DIR
_____
(DEGREES FROM)

8. WIND SPEED
[A] METERS/SEC.: _____
[B] MILES/HR.: _____

9. RECOMMENDED ACTIONS

UTILITY RECOMMENDATION
[A] NONE (UE, Alert and SAE Only)

---------- (General Emergency Only) ----------
[B] SHELTER ILLINOIS SUB-AREAS: _____
[C] SHELTER IOWA SUB-AREAS: _____
[D] EVACUATE ILLINOIS SUB-AREAS: _____
[E] EVACUATE IOWA SUB-AREAS: _____

AND
ADVISE THE REMAINDER OF THE 10 MILE EPZ TO MONITOR AND PREPARE
AND
FOR ILLINOIS ONLY, CONSIDER JIC ADVISORY WITH POTASSIUM IODIDE (KI) STATEMENT IN ACCORDANCE WITH STATE PROCEDURES

STATE RECOMMENDATION
[F] NONE
[G] SHELTER SUB-AREAS: _____
[H] EVACUATE SUB-AREAS: _____
[I] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES
[J] COMMENCE RETURN OF PUBLIC
[K] OTHER _____

10. ADDITIONAL INFORMATION _____

Verified With: _____ Approved By: _____

11. TRANSMITTED BY:	NAME	PHONE NUMBER	TIME/DATE
[A] EXELON:			
[B] STATE:			
[C] COUNTY:			

12. RECEIVED BY:	NAME	ORGANIZATION	TIME/DATE

SRRS: 3D.100; There are no retention requirements for this section

INITIAL CONDITIONS

You are the Shift Manager,

- A condensate system rupture has occurred in the Turbine Building basement causing a loss of feedwater.
- The reactor failed to scram on low RPV water level.
- The ATC NSO reported that the reactor failed to scram when he pushed the Manual Scram Pushbuttons and it failed to scram when he placed the Mode Switch in Shutdown.
- ARI automatically initiated when RPV water level reached -50”.
- All control rods are now at 00 and all APRM downscale lights are lit.
- RPV water level reached -65” and is now at -55” and rising with HPCS injecting. Reactor pressure is 920 psig and slowly lowering due to HPCS.
- Computer average wind speed at 375 feet is 10 mph from 200°.
- Stack radiation release levels have been constant for the last several hours.
- Dose projections are not available.
- The Shift Communicator is available to assist you.

INITIATING CUE

As the Shift Emergency Director, determine if the event needs to be classified and then, if necessary, classify the event, complete a NARS form, and direct the Shift Communicator to transmit the completed NARS form. Ensure 2 minutes is available for the Shift Communicator to complete transmission.

This is a time critical JPM.

Exelon Generation

Job Performance Measure

Perform Monthly Surveillance on Control Rod 10-43

JPM Number: S-RD-01

Revision Number: 02

Date: 1/12/23

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

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

Exelon Generation

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: LOS-RD-M3 Revision: 11
   Procedure: LOP-RM-01 Revision: 48
   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

SRRS: 3D.100; There are no retention requirements for this section

Exelon Generation

Revision Record (Summary)

Revision #	Summary
00	This JPM was written by G.W. Beale for the 2012 11-1 ILT Cert Exam.
01	Revised JPM steps to more closely align with procedural steps and to add evaluator notes. Revised task associated with JPM.
02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.

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

1. Reset the simulator to IC 151, 100% Power.
2. Place Simulator in Run.
3. Have marked-up copies of LOS-RD-M3 up to and including E.1.6.1.4.
4. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
5. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- Unit 1 is at rated power.

INITIATING CUE

The Unit Supervisor has directed you to perform the Full Out Rod Cycling/Stall flows/Timing portion of LOS-RD-M3, Control Rod Monthly Surveillances, for control rod 10-43 starting at Step E.1.6.2. Notify the Unit Supervisor when the surveillance is complete through step E.1.6.3.5.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will perform the monthly surveillance on Control Rod 10-43 IAW LOS-RD-M3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	The surveillance has already been started. Once the Candidate acknowledges the Initial Conditions and Initiating Cue, hand them LOS-RD-M3.				
1	SETUP RCMS for Full Out Exercising with coupling check and Withdraw Stall Flow Capture as follows:	Candidate SETS UP RCMS for Full Out Exercising with coupling check and Withdraw Stall Flow Capture as follows:			
2	At the ROD SELECT Display, or STATUS Display, whichever is in CONTROL Mode, PERFORM the following:	At the ROD SELECT Display, or STATUS Display, whichever is in CONTROL Mode, Candidate PERFORMS the following:			
3	SELECT the 'SURVEILLANCE' softkey.	Candidate SELECTS the 'SURVEILLANCE' softkey.	☐	☐	___
4	SELECT the 'ROD EXERCISE' softkey.	Candidate SELECTS the 'ROD EXERCISE' softkey.	☐	☐	___
5	SELECT 'FULL OUT' on the ROD EXERCISE screen.	Candidate SELECTS 'FULL OUT' on the ROD EXERCISE screen.	☐	☐	___
6	SELECT 'STALL FLOW' on the ROD EXERCISE screen.	Candidate SELECTS 'STALL FLOW' on the ROD EXERCISE screen.	☐	☐	___
7	If necessary, SELECT and CONFIRM "CLEAR LOG".	Candidate SELECTS and CONFIRMS "CLEAR LOG" if necessary.	☐	☐	___
8	EXERCISE full out rods as follows:	Candidate EXERCISES full out rods as follows:			

Exelon Generation

Task Standard:
Candidate will perform the monthly surveillance on Control Rod 10-43 IAW LOS-RD-M3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	In following step, once the CRD Drive Flow Trip Circuit Bypass Switch is place in BYPASS, annunciator 1H13-P603-A501 will alarm. The Candidate should identify this as an expected alarm and respond accordingly prior to placing the switch in BYPASS. This includes reviewing the applicable LOR and notifying the Unit Supervisor.				
*9	VERIFY in BYPASS position the CRD Drive Flow Trip Circuit Bypass Switch.	Candidate PLACES CRD Drive Flow Trip Circuit Bypass Switch to the BYPASS position.	☐	☐	___
*10	Using Notch Insert, INSERT each Full Out Control Rod one (1) notch individually to position 46 while monitoring the Rod position.	Candidate INSERTS control rod 10-43 one (1) notch to position 46 while monitoring the Rod position using Notch Insert.	☐	☐	___
11	OBSERVE that the Rod has moved and latched at 46.	Candidate OBSERVES that the Rod has moved and latched at 46.	☐	☐	___
NOTE:	If Control Rod 10-43 moves and latches at 46, Step 17 will be N/A.				
12	If rod settles back to Full Out, repeat attempt holding notch insert button depressed slightly longer, as needed.	Candidate repeats attempt holding notch insert button depressed slightly longer, if rod settles back to Full Out.	☐	☐	___
NOTE:	Procedure Steps E.1.6.3.2.1.2 through E.1.6.3.2.1.2.4 will not be applicable and should be N/A'ed by the Candidate.				
13	If position indication 46 is unexpectedly not working at the new position:	Candidate identifies that position indication 46 is working and N/A's subsection steps.	☐	☐	___
*14	Using Notch Withdraw/Extended Lift, RETURN the Rod to Full Out and OBSERVE rod does not go to the overtravel position.	Candidate RETURNS the Rod to Full Out using Notch Withdraw/Extended Lift and OBSERVES rod does not go to the overtravel position.	☐	☐	___

Exelon Generation

Task Standard:
Candidate will perform the monthly surveillance on Control Rod 10-43 IAW LOS-RD-M3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	Procedure Steps E.1.6.3.3.1 through E.1.6.3.3.4 will not be applicable and should be N/A'ed by the Candidate.				
15	If necessary, use Notch Withdraw/Extended Lift and elevated drive pressure to RETURN rod to Full Out.	Candidate identifies that rod 10-43 returned to Full Out and N/As subsection steps.	☐	☐	___
16	If necessary, RESTORE rod from BYPASS in RCMS and Re-Enter ROD EXERCISE.	Candidate identifies that rod 10-43 was not bypassed in RCMS and N/A's this step.	☐	☐	___
17	RECORD satisfactory Control Rod operation on Attachment 1A by initialing the "Initials" column for each full out rod.	Candidate RECORDS satisfactory Control Rod operation on Attachment 1A by initialing the "Initials" column for each full out rod.	☐	☐	___
18	Informs Unit Supervisor that surveillance complete on control rod 10-43.	Candidate informs Unit Supervisor that surveillance complete on control rod 10-43.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Perform Monthly Surveillance on Control Rod 10-43

JPM Number: S-RD-01 Revision Number: 02

Task Number and Title: 47.001 Given Unit Supervisor authorization, perform a notch withdrawal of a control rod in accordance with LOP-RM-01.

Task Standard: Candidate will perform the monthly surveillance on Control Rod 10-43 IAW LOS-RD-M3.

K/A Number and Importance: 201002 A4.01 4.1

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOS-RD-M3	Revision:	11
Procedure:	LOP-RM-01	Revision:	48
Procedure:		Revision:	
Procedure:		Revision:	

Actual Testing Environment: ☒ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☒ Perform

Estimated Time to Complete: 14 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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 Assist NSO,

- Unit 1 is at rated power.

INITIATING CUE

The Unit Supervisor has directed you to perform the Full Out Rod Cycling/Stall flows/Timing portion of LOS-RD-M3, Control Rod Monthly Surveillances, for control rod 10-43 starting at Step E.1.6.2. Notify the Unit Supervisor when the surveillance is complete through step E.1.6.3.5.

Exelon Generation

Job Performance Measure

Swap to the MDRFP from the TDRFP with a Failure of the TDRFP to Trip

JPM Number: S-FW-17

Revision Number: 01

Date: 12/15/2022

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

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

Exelon Generation

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: LOP-FW-05 Revision: 39
   Procedure: LOA-FW-101 Revision: 13
   Procedure: LOP-RL-01 Revision: 27
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM developed for 2014 LORT NRC Annual Operating Exam
Revision 01	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.

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

1. Reset simulator to IC #238, (Password 1238), Power 88%

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Load and Run **SFW17r01.ssf**.
3. Initial setup includes Reactor power reduced 88% for swap to MDRFP for 1A TDRFP OOS. The MDRFP should be online per LOP-FW-03 and swapped per LOP-RL-05 with the 'A' TDRFP running without injecting. Verify 1A TDRFP control valve at a value >0.
4. Provide a marked-up copy of LOP-FW-05.
5. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
6. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- 1A TDRFP is being shutdown in preparation for maintenance.
- The MDRFP is in operation per LOP-FW-03, Startup of Motor Driven Reactor Feed Pump MDRFP.
- Automatic transfer sequence from '1A' TDRFP to FRV has been completed per LOP-RL-01, Operation of the Reactor Level Control System.
- The '1A' TDRFP is no longer feeding the RPV.
- LOS-FW-SR1 will NOT be required during shutdown of 1A TDRFP.

INITIATING CUE

The Unit Supervisor has directed you to complete the shutdown the '1A' TDRFP per LOP-FW-05, Shutdown of the Turbine Driven Reactor Feedwater Pump, starting at step E.6. Notify the Unit Supervisor when the '1A' TDRFP is TRIPPED.

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 Candidate 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.

Exelon Generation

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

Task Standard:
During the shutdown of the 1A TDRFP, Candidate will attempt to trip the 1A TDRFP. The TDRFP will fail to trip requiring the Candidate to use alternate methods to trip the TDRFP IAW LOA-FW-101.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	Once Candidate acknowledges the Initial Conditions and Initiating Cue, hand them LOP-FW-05.				
1	DEPRESS FW TURB 'A' TURNING GEAR ENGAGE RESET pushbutton.	Candidate DEPRESSES FW TURB 'A' TURNING GEAR ENGAGE RESET pushbutton.	☐	☐	___
2	If performance of LOS-FW-SR1 is required, PERFORM the following.	Candidate DETERMINES LOS-FW-SR1 is NOT required per Initial Conditions and N/A's Step E.6.2.1.	☐	☐	___
CUE	If required provide the following cue: Performance of LOS-FW-SR1 is not required.				
*3	When TDRFP is no longer feeding the RPV, DEPRESS 'A' TDRFP Turbine TRIP pushbutton on 1PM03J for at least 10 seconds.	Candidate DEPRESSES 'A' TDRFP Turbine TRIP pushbutton on 1PM03J for at least 10 seconds.	☐	☐	___
ALTERNATE PATH BEGINS HERE					
4	Identifies '1A' TDRFP failed to TRIP and notify Unit Supervisor.	Candidate identifies the '1A' TDRFP failed to TRIP and notifies the Unit Supervisor.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. If required, direct the Candidate to enter LOA-FW-101.				
5	Enter LOA-FW-101.	Candidate enters LOA-FW-101.	☐	☐	___

Exelon Generation

Task Standard:

During the shutdown of the 1A TDRFP, Candidate will attempt to trip the 1A TDRFP. The TDRFP will fail to trip requiring the Candidate to use alternate methods to trip the TDRFP IAW LOA-FW-101.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	In the following step, the Candidate may elect to perform all open bulleted steps or only one to trip the TDRFP. All actions are considered an acceptable means to trip the TDRFP satisfactorily. The Candidate may also elect to not depress the Trip Pushbutton a second time based on its failure to trip initially. It is acceptable to consider this part of the step as previously completed.				
6	DEPRESS the Trip Pushbutton.	Candidate DEPRESSES the Trip Pushbutton.	☐	☐	___
NOTE:	The Candidate will only be required to perform Steps 7-8 OR 9-11 to satisfactorily trip the TDRFP. In this case the steps not performed may be N/A'ed.				
*7	PLACE the Manual Backup Station in Manual.	Candidate PLACES the Manual Backup Station in Manual.	☐	☐	___
*8	DEPRESS Fast Lower until CV is CLOSED.	Candidate DEPRESSES Fast Lower until CV is CLOSED.	☐	☐	___
*9	CLOSE the 1B21-F422A.	Candidate CLOSES the 1B21-F422A.	☐	☐	___
*10	CLOSE the 1B21-F423A.	Candidate CLOSES the 1B21-F423A.	☐	☐	___
*11	CLOSE the 1FW010A.	Candidate CLOSES the 1FW010A.	☐	☐	___
NOTE:	If requested, there will be no Equipment Operators available to manually trip the TDRFP at the Front Standard requiring the Candidate to perform another method. If this is not requested, then the step may be N/A'ed.				
12	DISPATCH an operator to Manually TRIP the TDRFP at the Front Standard.	Candidate DISPATCHES an operator to Manually TRIP the TDRFP at the Front Standard.	☐	☐	___
CUE	If requested, there are currently no Equipment Operators available to trip the TDRFP locally at the Front Standard.				

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

Exelon Generation

Task Standard:
During the shutdown of the 1A TDRFP, Candidate will attempt to trip the 1A TDRFP. The TDRFP will fail to trip requiring the Candidate to use alternate methods to trip the TDRFP IAW LOA-FW-101.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
13	Notify the Unit Supervisor the '1A' TDRFP is tripped.	Candidate notifies the Unit Supervisor the '1A' TDRFP is tripped.	☐	☐	___
CUE	As Unit Supervisor, acknowledge the report. JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Swap to the MDRFP from the TDRFP with a Failure of the TDRFP to Trip

JPM Number: S-FW-17 Revision Number: 01

Task Number and Title: 77.035 Given Unit Supervisor authorization, respond to a failure of the Turbine Driven Reactor Feed Pump to trip IAW LOA-FW-101

Task Standard: During the shutdown of the 1A TDRFP, Candidate will attempt to trip the 1A TDRFP. The TDRFP will fail to trip requiring the Candidate to use alternate methods to trip the TDRFP IAW LOA-FW-101.

K/A Number and Importance: 259001 A4.02 4.0

Suggested Testing Environment:

Alternate Path: ☒ Yes ☐ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOP-FW-05	Revision:	39
Procedure:	LOA-FW-101	Revision:	13
Procedure:	LOP-RL-01	Revision:	27
Procedure:		Revision:	

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 ☐ No

The 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 Assist NSO,

- 1A TDRFP is being shutdown in preparation for maintenance.
- The MDRFP is in operation per LOP-FW-03, Startup of Motor Driven Reactor Feed Pump MDRFP.
- Automatic transfer sequence from '1A' TDRFP to FRV has been completed per LOP-RL-01, Operation of the Reactor Level Control System.
- The '1A' TDRFP is no longer feeding the RPV.
- LOS-FW-SR1 will NOT be required during shutdown of 1A TDRFP.

INITIATING CUE

The Unit Supervisor has directed you to complete the shutdown the '1A' TDRFP per LOP-FW-05, Shutdown of the Turbine Driven Reactor Feedwater Pump, starting at step E.6. Notify the Unit Supervisor when the '1A' TDRFP is TRIPPED.

Job Performance Measure

Perform LOS-TG-Q3 on #2 Main Turbine BPV

JPM Number: S-TG-03

Revision Number: 03

Date: 11/23/2022

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

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

Exelon Generation

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: LOS-TG-Q3 Revision: 1
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM developed for the LORT 2016 NRC Exam.
Revision 01	Revised to new JPM template.
Revision 02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to new procedure.
Revision 03	Updated for editorial changes.

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

1. Recall IC #151, 100% Power.

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Verify copies of LOS-TG-Q3 are available to provide to the Candidate.
    - N/A and initial Steps for Bypass Valves NOT being Tested.(A.1.4, A.1.5, A.1.6, A.1.7, A.1.8)
3. Verify both DEHC HMIs are on the STATUS displays.
4. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
5. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- Unit 1 is at rated conditions.

INITIATING CUE

The Unit Supervisor has directed you to perform LOS-TG-Q3, Turbine Bypass Valve Surveillance, Attachment 1A on the #2 Turbine Bypass Valve as a PMT for MMD maintenance. Notify the Unit Supervisor when LOS-TG-Q3 Attachment 1A is complete on #2 Turbine Bypass Valve.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will cycle Bypass Valve #2 from the DEHC HMI IAW LOS-TG-Q3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1	OBTAIN permission from Generation Dispatch to perform this surveillance.	Candidate OBTAINS permission from Generation Dispatch to perform this surveillance.	☐	☐	___
CUE	As Unit Supervisor, permission is granted from Generation Dispatch to perform the surveillance.				
2	If Bypass Valves are controlling Reactor Pressure: • Do NOT perform this attachment. • STATE reason this attachment not performed in Comments Section. • MAKE a DEL entry to ensure Bypass Valves are tested to meet Tech Specs.	Candidate determines Bypass Valves are NOT controlling Reactor Pressure and test can be performed.	☐	☐	___
3	If at any time, Bypass Valve testing is not working as expected, SELECT “Test OFF” to allow the selected BPV to re-close.	Candidate place keeps step.	☐	☐	___
NOTE:	This test can be performed at either DEHC HMIs.				

Exelon Generation

Task Standard:
Candidate will cycle Bypass Valve #2 from the DEHC HMI IAW LOS-TG-Q3.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*4	At the DEHC HMI, NAVIGATE to the "BV #2" screen by SELECTING the following: <Tests>, <BPV Test>, <Bypass Valve #2>	At the DEHC HMI, Candidate NAVIGATES to the "BV #2" screen by SELECTING the following: <Tests>, <BPV Test>, <Bypass Valve #2>	☐	☐	___
*5	On the "BV #2" screen, TEST Bypass Valve #2 as follows: PUSH the Test START pushbutton and OBSERVE: • Bypass Valve #2 fully OPENS in approximately 10 seconds. • Bypass Valve #2 exhibits Fast OPEN characteristics. • Approximately 10 seconds after reaching full open, Bypass Valve #2 fully closes.	Candidate PUSHES the Test START pushbutton and OBSERVES: • Bypass Valve #2 fully OPENS in approximately 10 seconds. • Bypass Valve #2 exhibits Fast OPEN characteristics. • Approximately 10 seconds after reaching full open, Bypass Valve #2 fully closes.	☐	☐	___
CUE	Another NSO will monitor parameters on the P603.				
6	NOTIFY the Unit Supervisor LOS-TG-Q3 Attachment 1A is complete for the #2 Bypass Valve.	Candidate NOTIFIES the Unit Supervisor LOS-TG-Q3 Attachment 1A is complete for the #2 Bypass Valve.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

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

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Perform LOS-TG-Q3 on #2 Main Turbine BPV

JPM Number: S-TG-03 Revision Number: 03

Task Number and Title: 71.042 Given normal at power conditions, perform Control Room actions for main turbine generator surveillances, IAW LOS-TG-Q3, LOS-TG-M2, LOS-TG-W1, LOS-TG-W2, and LOS-TG-W3.

Task Standard: Candidate will cycle Bypass Valve #2 from the DEHC HMI IAW LOS-TG-Q3.

K/A Number and Importance: 241000 A4.06 4.2

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOS-TG-Q3	Revision:	01
Procedure:		Revision:	
Procedure:		Revision:	
Procedure:		Revision:	

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 ☐ No

The 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 Assist NSO,

- Unit 1 is at rated conditions.

INITIATING CUE

The Unit Supervisor has directed you to perform LOS-TG-Q3, Turbine Bypass Valve Surveillance, Attachment 1A on the #2 Turbine Bypass Valve as a PMT for MMD maintenance. Notify the Unit Supervisor when LOS-TG-Q3 Attachment 1A is complete on #2 Turbine Bypass Valve.

Job Performance Measure

Startup 1A RHR in SDC with a Suction Line Failure

JPM Number: S-RH-26

Revision Number: 05

Date: 12/15/2022

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

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

Exelon Generation

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: LOP-RH-07 Revision: 83
   Procedure: LOA-RH-101 Revision: 23
   Procedure: LOA-FLD-001 Revision: 23
   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

SRRS: 3D.100; There are no retention requirements for this section

Exelon Generation

Revision Record (Summary)

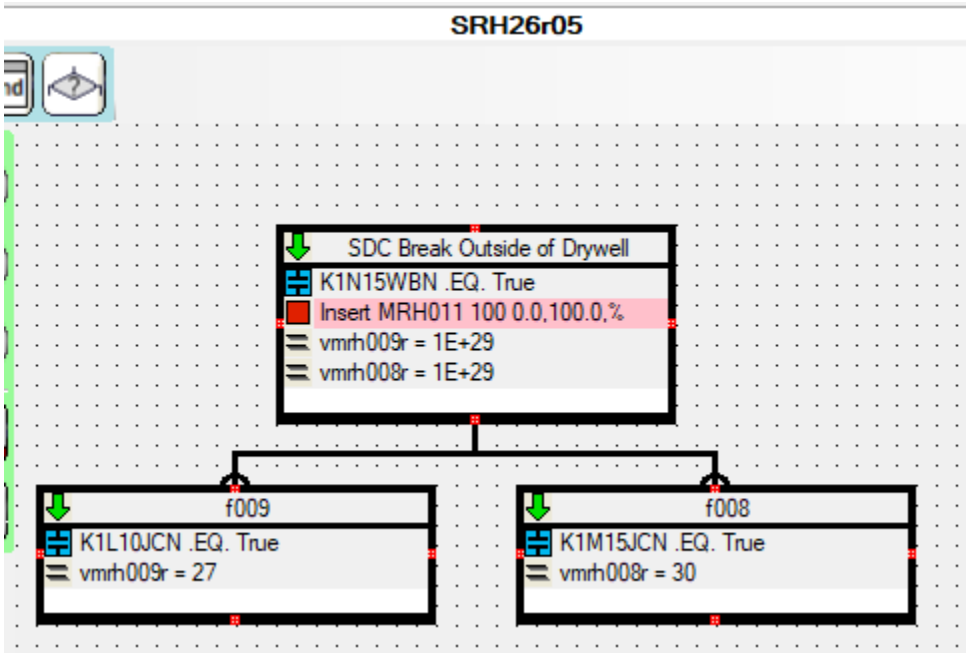
Revision #	Summary
Revision 00	New JPM written by G.W. Beale for the 2011 NRC Annual Exam.
Revision 01	Added new checklist. Updated for new procedure revision.
Revision 02	Updated for ILT Class 13-01 Cert Exam. Revised to include the latest JPM template and procedure revisions.
Revision 03	Revised to the current JPM Template and to incorporate procedure revisions. Updated Task Number to more accurately reflect the actions being performed for the alternate path.
Revision 04	Revised for new procedure revision.
Revision 05	Revised JPM to change fault from Min Flow Valve fails to close to Suction Line failure. Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.

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

1. Reset simulator to IC #239, 0% Power, Password 1239

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. LOAD and RUN SmartScenario file for this JPM: **SRH26r05.ssf**
3. Verify the following Control Panel Lineups:
   - Align the simulator so it matches LOP-RH-07 up to and including step E.6.5.
   - Place Robust Barriers (clear tubes) on the 1E12-F024A and 1E12-F027A.
   - As a minimum, 1E12-F064A and 1E12-F003A need to be closed and 1E12-F048A needs to be OPEN.
   - Place Plant Display #23 on Overhead C.
4. Have a copy of LOP-RH-07 marked up through step E.6.5.
5. Place EST on 1E12-F064A Control Switch per step E.1.6
6. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
7. This completes the setup for this JPM.



Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- Unit 1 is in Mode 4.
- LOP-RH-07, Shutdown Cooling System Startup, Operation and Transfer, is in progress and completed up to and including step E.6.5.
- An Equipment Operator is standing by to assist you.
- The RPV Head is installed.

INITIATING CUE

The Unit Supervisor has directed you to startup the 1A RHR Pump in SDC IAW LOP-RH-07 Step 6.6. Notify the Unit Supervisor prior to commencing cool down.

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 Candidate 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.

Exelon Generation

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

Task Standard:

Candidate Starts 'A' RHR in SDC and determines a Suction line break occurs and secures the SDC lineup to stop the inadvertent drain down of the vessel IAW LOA-RH-101 or LOA-FLD-001.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	The procedure is already in progress and would be provided to the Candidate during turnover. After the Candidate acknowledges the Initial Conditions and Initiating Cue, provide them with a marked up copy of LOP-RH-07.				
1	VERIFY CLOSED 1E12-F053A, A RHR Shtdn Clg Return Isol.	Candidate VERIFIES CLOSED 1E12-F053A, A RHR Shtdn Clg Return Isol.	☐	☐	___
2	If 1E12-F053A has no power, MANUALLY OPEN the valve the required number of turns to ensure approximately 2,000 gpm flow when the pump is started.	Candidate DETERMINES 1E12-F053A has power.	☐	☐	___
3	VERIFY CLOSED 1E12-F003A, A RHR Hx Outlet Vlv.	Candidate VERIFIES CLOSED 1E12-F003A, A RHR Hx Outlet Vlv.	☐	☐	___
4	If the reactor vessel head is installed, VERIFY Reactor Level is between 40" and 340" on the Shutdown Range or on the Alternate RX Vessel Level – Instrument Zero Referenced (between 804.9' and 829.9'on the Alternate RX Vessel Level – Sea Level Referenced.	Candidate VERIFIES Reactor Level is between 40" and 340".	☐	☐	___
*5	START 'A' RHR Pump.	Candidate STARTS 'A' RHR Pump.	☐	☐	___

Task Standard:

Candidate Starts 'A' RHR in SDC and determines a Suction line break occurs and secures the SDC lineup to stop the inadvertent drain down of the vessel IAW LOA-RH-101 or LOA-FLD-001.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
6	THROTTLE OPEN 1E12-F053A, A RHR Shtdn Clg Return Isol, to obtain 4000 to 5000 gpm flow.	Candidate THROTTLES OPEN 1E12-F053A, A RHR Shtdn Clg Return Isol, and identifies that flow indication is not changing.	☐	☐	___
ALTERNATE PATH BEGINS HERE					
NOTE: The Candidate should identify no change on 1A RHR flow indicator and RPV level lowering through several different indications: Level 8 Alarms clearing (LOR-1H13-P601-A108 & LOR-1H13-P601-D405) Level 7 Alarm clearing (LOR-1H13-P603-A309) Level 4 Alarm (LOR-1H13-P601-A409) Display #23 on Overhead C					
NOTE: Suction Leak is outside of Drywell upstream of the 1E12-F008 valve. Successful completion of securing the leak will require closing the 1E12-F009 valve. Candidate may trip the 1A RHR Pump and close 1E12-F008 and 1E12-F009 prior to entering LOA-RH-101 or LOA-FLD-001.					
7	Identifies no change in pump flow and lowering RPV level	Candidate identifies no change in pump flow and lowering RPV level	☐	☐	___
CUE	As necessary, report as EO: There is a large water leak coming from RB 740 N.E. Corner Room with the RCIC Outboard Steam Isolation and the RHR SDC Outboard Isolation Valves.				
*8	VERIFY CLOSED: • 1E12-F008, RHR Shtdn Clg Suct Outboard Isol Vlv. • 1E12-F009, RHR Shtdn Clg Suct Inboard Isol Vlv.	Candidate CLOSES: • 1E12-F008, RHR Shtdn Clg Suct Outboard Isol Vlv. • 1E12-F009, RHR Shtdn Clg Suct Inboard Isol Vlv.	☐	☐	___

Exelon Generation

Task Standard:

Candidate Starts 'A' RHR in SDC and determines a Suction line break occurs and secures the SDC lineup to stop the inadvertent drain down of the vessel IAW LOA-RH-101 or LOA-FLD-001.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
9	VERIFY CLOSED per LOA-RH-101: • 1E12-F053A, A RHR Shtdn Clg Return Isol. • 1E12-F053B, B RHR Shtdn Clg Return Isol. • 1E12-F023, RHR Head Spray Vlv. • 1E12-F099A, A RHR Shtdn Clg Return Check Bypass • 1E12-F099B, B RHR Shtdn Clg Return Check Bypass	Candidate VERIFIES CLOSED per LOA-RH-101: • 1E12-F053A, A RHR Shtdn Clg Return Isol. • 1E12-F053B, B RHR Shtdn Clg Return Isol. • 1E12-F023, RHR Head Spray Vlv. • 1E12-F099A, A RHR Shtdn Clg Return Check Bypass • 1E12-F099B, B RHR Shtdn Clg Return Check Bypass	☐	☐	___
10	VERIFY Shutdown Cooling RHR Pump tripped.	Candidate VERIFIES Shutdown Cooling RHR Pump tripped.	☐	☐	___
CUE	Once the 1E12-F009 is closed, as EO: The large water leak coming from RB 740 N.E. Corner Room Outboard has stopped. It was coming from upstream of the 1E12-F008, RHR SDC Outboard Isolation Valve.				
11	Inform Unit Supervisor SDC Suction Line break is isolated.	Candidate informs Unit Supervisor SDC Suction Line break is isolated.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Startup 1A RHR in SDC with a Suction Line Failure

JPM Number: S-RH-26 Revision Number: 05

Task Number and Title: 064.051 Given shutdown operation conditions, perform control room actions to respond to a trip or isolation of shutdown cooling IAW LOA-RH-101.

Task Standard: Candidate Starts 'A' RHR in SDC and determines a Suction line break occurs and secures the SDC lineup to stop the inadvertent drain down of the vessel IAW LOA-RH-101 or LOA-FLD-001.

K/A Number and Importance: 205000 A2.12 3.6 / 3.6

Suggested Testing Environment: Simulator

Alternate Path: ☒ Yes ☐ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOP-RH-07	Revision:	82
Procedure:	LOA-RH-101	Revision:	23
Procedure:	LOA-FLD-001	Revision:	23
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 ☐ No

The 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 Assist NSO,

- Unit 1 is in Mode 4.
- LOP-RH-07, Shutdown Cooling System Startup, Operation and Transfer, is in progress and completed up to and including step E.6.5.
- An Equipment Operator is standing by to assist you.
- The RPV Head is installed.

INITIATING CUE

The Unit Supervisor has directed you to startup the 1A RHR Pump in SDC IAW LOP-RH-07 Step 6.6. Notify the Unit Supervisor prior to commencing cool down.

Exelon Generation

Job Performance Measure

Place 1B RHR in Suppression Pool Cooling from the RSDP

JPM Number: S-RX-01

Revision Number: 07

Date: 11/26/2022

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

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

Exelon Generation

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: LOP-RX-06 Revision: 8
   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

SRRS: 3D.100; There are no retention requirements for this section

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	This JPM was written by G.W. Beale for the 2007 NRC Annual Examination.
Revision 01	Updated for the latest LOA-RX-101 procedure and current JPM template.
Revision 02	Changed Throttle closed 1E12-F-48B to a noncritical step. Added an additional initial condition.
Revision 03	Added new checklist. Changed lineup on Remote Shutdown Panel to place all Div II switches and Nuclear Boiler Instrument Xfer switch to Emergency.
Revision 04	Revised for editorial changes.
Revision 05	Updated for editorial changes.
Revision 06	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 07	Updated for editorial changes.

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

1. Reset Simulator to IC 405, 100% Power.(Password 1969)

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Have copies of LOP-RX-06.
3. Verify all transfer Switches are in the EMERGENCY position at the RSDP.
4. Verify RSDP Suppression Pool Temperature indication is approximately 90°F.
5. ACKNOWLEDGE and RESET all alarms.
6. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
7. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- The Control Room has been evacuated per LOA-RX-101.
- Control has been transferred to the Remote Shutdown Panel IAW LOP-RX-03, Transfer of Shutdown Control to the Remote Shutdown Panel.
- Lake Temperature is 85°F and Suppression Pool Temperature is 91°F.
- RHR has been placed in standby per LOP-RH-11, Preparation for Standby Operation of the Low Pressure Coolant Injection (LPCI) System.
- An Equipment Operator is standing by to assist you.

INITIATING CUE

The Unit Supervisor has directed you to place 1B RHR in Suppression Pool Cooling IAW LOP-RX-06, Startup of Suppression Pool Cooling from the Remote Shutdown Panel. Notify the Unit Supervisor when LOP-RX-06 is 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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate lines up and starts 1B RHR in Suppression Pool Cooling mode from the RSDP IAW LOP-RX-06.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*1	OPEN 1E12-F068B, 1B RHR Hx Serv Wtr Otlt Vlv.	Candidate OPENS 1E12-F068B, 1B RHR Hx Serv Wtr Otlt Vlv.	☐	☐	___
*2	Approximately 9 to 10 seconds after taking the 1E12-F068B switch to OPEN, START 1B RHR Serv Wtr Pmp C.	Approximately 9 to 10 seconds after taking the 1E12-F068B switch to OPEN, Candidate STARTS 1B RHR Serv Wtr Pmp C.	☐	☐	___
*3	When 1B Hx WS Flow on 1E12-R507 increases to 3000 gpm, START 1B RHR Serv Wtr Pmp D.	Candidate STARTS 1B RHR Serv Wtr Pmp D when 1B Hx WS Flow on 1E12-R507 increases to 3000 gpm.	☐	☐	___
4	MONITOR 1B Hx WS Flow increase on 1E12-R507.	Candidate MONITORS 1B Hx WS Flow increase on 1E12-R507.	☐	☐	___
5	VERIFY 1E12-F068B opens fully.	Candidate VERIFIES 1E12-F068B opens fully.	☐	☐	___
6	CHECK 1B Hx WS Flow is at least 7400 gpm on 1E12- R507.	Candidate CHECKS 1B Hx WS Flow is at least 7400 gpm on 1E12- R507.	☐	☐	___
7	Locally on Panel 1PL74J in Diesel Generator Building Penthouse, VERIFY RHR Service Water Pumps C&D Cubicle Supply Fan 1VY06C is running.	Candidate directs Equipment Operator to locally on Panel 1PL74J in Diesel Generator Building Penthouse, VERIFY RHR Service Water Pumps C&D Cubicle Supply Fan 1VY06C is running.	☐	☐	___
CUE	As Equipment Operator, report that the 1VY06C is RUNNING.				

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

Exelon Generation

Task Standard:
Candidate lines up and starts 1B RHR in Suppression Pool Cooling mode from the RSDP IAW LOP-RX-06.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
8	Locally on panel 1E12-P450B, VERIFY RHR Service Water Strainer Backwash Control Switch is in AUTO.	Candidate directs Equipment Operator to locally on panel 1E12-P450B, VERIFY RHR Service Water Strainer Backwash Control Switch is in AUTO.	☐	☐	___
CUE	As Equipment Operator, report that the 1B RHRWS Strainer Backwash Control Switch is in AUTO.				
9	Locally START the 1B RHR Service Water Process Radiation Monitor per applicable local actions of LOP-PR-06.	Candidate directs Equipment Operator to locally START the 1B RHR Service Water Process Radiation Monitor per applicable local actions of LOP-PR-06.	☐	☐	___
CUE	As Equipment Operator, report that the 1B RHRWS PRM is RUNNING IAW LOP-PR-06.				
10	NOTIFY Chemistry to collect and analyze grab samples at least once every 8 hours of RHR Service Water operation and to start a 30 day timeclock. [ODCM 12.2.1.A]	Candidate NOTIFIES Chemistry to collect and analyze grab samples at least once every 8 hours of RHR Service Water operation and NOTIFIES Unit Supervisor to start a 30 day timeclock. [ODCM 12.2.1.A]	☐	☐	___
CUE	As Chemistry/Unit Supervisor, acknowledge report.				

Exelon Generation

Task Standard:
Candidate lines up and starts 1B RHR in Suppression Pool Cooling mode from the RSDP IAW LOP-RX-06.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
11	VERIFY the following valves are closed: • 1E12-F006B, 1B RHR Shtdn Clg Suction Vlv. • 1E12-F049B, 1B RHR Hx Blowdown Upstrm Iso. • 1E12-F026B, 1B RHR Hx Drain To RCIC • 1E12-F052B, 1B RHR Hx Stm Inlet Vlv	Candidate VERIFIES the following valves are closed: • 1E12-F006B, 1B RHR Shtdn Clg Suction Vlv. • 1E12-F049B, 1B RHR Hx Blowdown Upstrm Isol • 1E12-F026B, 1B RHR Hx Drain To RCIC • 1E12-F052B, 1B RHR Hx Stm Inlet Vlv	☐	☐	___
12	VERIFY the following valves are open: • 1E12-F004B, 1B RHR Pmp Suction Vlv. • 1E12-F047B, 1B RHR Hx Inlet Vlv • 1E12-F048B, 1B RHR Hx Bypass Vlv	Candidate VERIFIES the following valves are open: • 1E12-F004B, 1B RHR Pmp Suction Vlv. • 1E12-F047B, 1B RHR Hx Inlet Vl • 1E12-F048B, 1B RHR Hx Bypass Vlv	☐	☐	___
13	If SP and Lake Water ΔT is known to be less than 100°F, VERIFY 1E12-F003B, 1B RHR Hx Outlet Vlv, is OPEN.	Candidate DETERMINES SP and Lake Water ΔT is less than 100°F and VERIFIES 1E12-F003B, 1B RHR Hx Outlet Vlv, is OPEN.	☐	☐	___
14	If SP and Lake Water ΔT is (or may be) greater than 100°F, CLOSE 1E12-F003B, 1B RHR Hx Outlet Vlv.	Candidate DETERMINES SP and Lake Water ΔT is NOT greater than 100°F and step is N/A.	☐	☐	___
*15	START 1B RHR Pmp.	Candidate STARTS 1B RHR Pmp from the RSDP.	☐	☐	___

Exelon Generation

Task Standard:
Candidate lines up and starts 1B RHR in Suppression Pool Cooling mode from the RSDP IAW LOP-RX-06.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*16	THROTTLE following valves to establish and maintain RHR Pump flow between 2000 gpm and 7400 gpm on 1C61-R005: • 1E12-F024B, 1B RHR Test To SP Vlv	Candidate THROTTLES following valves to establish and maintain RHR Pump flow between 2000 gpm and 7400 gpm on 1C61-R005: • 1E12-F024B, 1B RHR Test To SP Vlv	☐	☐	___
*17	If 1E12-F003B, 1B RHR Hx Outlet Vlv, is open, CLOSE 1E12-F048B, 1B RHR Hx Bypass Vlv.	Candidate CLOSES 1E12-F048B, 1B RHR Hx Bypass Vlv.	☐	☐	___
18	LOCALLY VERIFY the following: • RHR Pump Room Ventilation Fan 1VY03C is running • RHR Minimum Flow Valve 1E12-F064B, 1B RHR Pump Min Flow Isol Valve, is full closed	Candidate directs Equipment Operator to LOCALLY VERIFY the following: • RHR Pump Room Ventilation Fan 1VY03C is running • RHR Minimum Flow Valve 1E12-F064B, 1B RHR Pump Min Flow Isol Valve, is full closed	☐	☐	___
CUE	As Equipment Operator, report that 1VY03C is RUNNING and 1E12-F064B is CLOSED.				
19	NOTIFY the Unit Supervisor LOP-RX-06 is complete.	Candidate NOTIFIES the Unit Supervisor LOP-RX-06 is complete.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Place 1B RHR in Suppression Pool Cooling from the RSDP

JPM Number: S-RX-01 Revision Number: 07

Task Number and Title: 421.010 Given LGA-003, Primary Containment Control, in progress, cool the Suppression Pool, IAW LGA-003

Task Standard: Candidate lines up and starts 1B RHR in Suppression Pool Cooling mode from the RSDP IAW LOP-RX-06.

K/A Number and Importance: 295026 EA1.06 4.0

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: LOP-RX-06 Revision: 8
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____

Actual Testing Environment: ☒ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☒ Perform

Estimated Time to Complete: 12 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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 Assist NSO,

- The Control Room has been evacuated per LOA-RX-101.
- Control has been transferred to the Remote Shutdown Panel IAW LOP-RX-03, Transfer of Shutdown Control to the Remote Shutdown Panel.
- Lake Temperature is 85°F and Suppression Pool Temperature is 91°F.
- RHR has been placed in standby per LOP-RH-11, Preparation for Standby Operation of the Low Pressure Coolant Injection (LPCI) System.
- An Equipment Operator is standing by to assist you.

INITIATING CUE

The Unit Supervisor has directed you to place 1B RHR in Suppression Pool Cooling IAW LOP-RX-06, Startup of Suppression Pool Cooling from the Remote Shutdown Panel. Notify the Unit Supervisor when LOP-RX-06 is complete.

Job Performance Measure

Perform Loss of Bus 141Y Hard Card

JPM Number: S-AP-05

Revision Number: 07

Date: 11/23/2022

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

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

Exelon Generation

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: LOA-AP-101 Revision: 62
   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

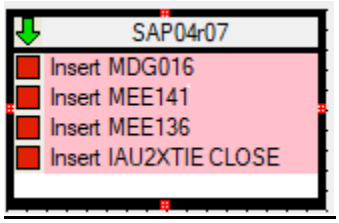
Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	Information Not Available
Revision 01	Information Not Available
Revision 02	Revised for current procedure revision and JPM template.
Revision 03	Made steps 1 and 3 critical and 7 non-critical because it could not be completed.
Revision 04	Added new checklist. Added success criteria for the alternate path. Simulator setup steps were added for 1B WR pump and 1B CRD Pump being verified off.
Revision 05	Updated for procedure revision.
Revision 06	Updated to current template and procedures for ILT 13-1 NRC Exam
Revision 07	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision. Converted CAEP file to Smart Scenario.

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

1. Reset the simulator to 151, 100% Power
2. Go to RUN
3. Verify the following:
   - 1B CRD Pump is running
   - 1B WR is off
   - 0 WR pump is aligned to Unit 2
4. Run the Smart Scenario for this JPM: **SAP05r07.ssf**
   - **imf mdg016** (0 DG Engine fails to start)
   - **imf mee141** (Bus Tie Breaker 1415 fails to close)
   - **imf mee136** (Breaker 1412 fails open)
   - **irf iau2xtie close** (Unit Tie Breaker 2414 closed)



5. Silence and acknowledge annunciators.
6. Freeze the simulator until the first Candidate enters.
7. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs using the noted steps on the Job Performance Measure Validation Checklist located on page.
8. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are an assist NSO,

- Unit 1 has had a Loss of 141Y due to Breaker 1412 opening.
- 0 DG did not start and LOA-DG-101 is in progress.
- Unit 2 is at 100% Power with a normal electric plant lineup.
- 0 WR Pump is lined up to Unit 2.
- Operators are standing by to assist you.

INITIATING CUE

The Unit 1 Supervisor has directed you to perform Loss of 141Y Hard Card. Inform the Unit 1 Supervisor when Bus 141Y is energized. Another NSO will perform the RPS Quick Swap Hardcard and the IN Cross-Tie Hardcard.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate attempts to reenergizes Bus 141Y via the Bus Tie but it fails to close. Candidate reenergizes Bus 141Y using the Unit 2 Cross Tie Breaker IAW LOA-AP-101.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*1	CHECK RBCCW header discharge pressure – GREATER THAN 50 psig.	Candidate identifies that RBCCW discharge header pressure is LESS THAN 50 psig and starts 1B WR Pump.	☐	☐	___
CUE	Another NSO will follow up with LOA-WR-101.				
2	Verify one CRD Pump running.	Candidate identifies the 1B CRD Pump is running.	☐	☐	___
CUE	Another NSO will follow up with LOP-RD-01.				
3	PERFORM RPS Quick Swap Hardcard.	Candidate identifies from the Initial Conditions that another NSO will perform the RPS quick swap hardcard.	☐	☐	___
4	PERFORM IA to IN Cross-Tie Hardcard.	Candidate identifies from the Initial Conditions that another NSO will perform the IA to IN Cross-Tie hardcard.	☐	☐	___
5	VERIFY annunciator 1PM01J-A214, 4KV Bus 141X/Y Overcurrent alarm is CLEAR.	Candidate VERIFIES annunciator 1PM01J-A214, 4KV Bus 141X/Y Overcurrent alarm is CLEAR.	☐	☐	___
6	VERIFY all three phase voltages are approximately equal using 141X/Y Voltmeter switch.	Candidate VERIFIES all three phase voltages are approximately equal using 141X/Y Voltmeter switch.	☐	☐	___
ALTERNATE PATH BEGINS HERE					
*7	If 141X is energized, SYNCHRONIZE and CLOSE ACB 1415.	Candidate places Synchroscope Select Switch to ON for breaker 1415, attempts to close ACB 1415, and determines it will not close.	☐	☐	___

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

Exelon Generation

Task Standard:
Candidate attempts to reenergizes Bus 141Y via the Bus Tie but it fails to close. Candidate reenergizes Bus 141Y using the Unit 2 Cross Tie Breaker IAW LOA-AP-101.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	As Unit Supervisor acknowledge report that ACB 1415 did not close. If necessary, repeat the initiating cue: "Inform me when Bus 141Y is energized."				
8	CHECK BUS 241Y powered from Unit-2 SAT.	Candidate identifies from the Initial Conditions that Bus 241Y is powered from the Unit 2 SAT.	☐	☐	___
CUE	If required, Bus 241Y is powered from the Unit 2 SAT				
9	CHECK ACB 2415 is OPEN.	Candidate CHECKS that ACB 2415 is open.	☐	☐	___
CUE	As Unit 2 NSO, report ACB 2415 is open.				
*10	SYNCHRONIZE and CLOSE ACB 2414.	Candidate directs Unit 2 to close ACB 2414.	☐	☐	___
CUE	As Unit 2 NSO, report ACB 2414 is closed.				
*11	SYNCHRONIZE and CLOSE ACB 1414.	Candidate places Synchroscope Select Switch to ON for breaker 1414 and closes ACB 1414.	☐	☐	___
12	INFORM the Unit Supervisor.	Candidate informs the Unit Supervisor that Bus 141Y is energized from Bus 241Y.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Perform Loss of Bus 141Y Hard Card

JPM Number: S-AP-05 Revision Number: 07

Task Number and Title: 5.008, Provided initial conditions respond to a loss of 4KV ESS bus IAW station procedures.

Task Standard: Candidate attempts to reenergizes Bus 141Y via the Bus Tie but it fails to close. Candidate reenergizes Bus 141Y using the Unit 2 Cross Tie Breaker IAW LOA-AP-101.

K/A Number and Importance: 295003, AA1.01, 4.0

Suggested Testing Environment: Simulator

Alternate Path: ☒ Yes ☐ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOA-AP-101	Revision:	62
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 ☐ No

The 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 an assist NSO,

- Unit 1 has had a Loss of 141Y due to Breaker 1412 opening.
- 0 DG did not start and LOA-DG-101 is in progress.
- Unit 2 is at 100% Power with a normal electric plant lineup.
- 0 WR Pump is lined up to Unit 2.
- Operators are standing by to assist you.

INITIATING CUE

The Unit 1 Supervisor has directed you to perform Loss of 141Y Hard Card. Inform the Unit 1 Supervisor when Bus 141Y is energized. Another NSO will perform the RPS Quick Swap Hardcard and the IN Cross-Tie Hardcard.

Exelon Generation

Job Performance Measure

Startup Rod Withdrawals with a Loss of Rod Position Indication

JPM Number: S-NR-11

Revision Number: 04

Date: 11/26/2022

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

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

Exelon Generation

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: LGP-1-1 Revision: 132
   Procedure: LOP-RM-01 Revision: 48
   Procedure: LOA-RM-101 Revision: 25
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New Alternate Path JPM developed for the LORT 2015 NRC Annual Exam.
Revision 01	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 03	Revised to current procedure revisions.

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

1. Reset simulator to IC # 237, 7% Power. Password 1237.

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Verify Malfunction MRD156 CRD 22-11 Reed Switch "___" Stuck Open is in Instructor Summary (Initial 6, Final 6).
3. Have a marked up copy of the current ReMA for the rod sequence loaded into the Simulator RWM. The ReMA should be modified to include notes that state single notch withdrawal required per QNE based on potential fuel failure concerns. This note is only required to be on the step of the ReMA that the fault is on. (Step 108, rod 22-11)
4. Copy of LOP-RM-01 and a copy of LGP-1-1 marked up to and including Step E.6.1 with Step E.6.1 circled.
5. Verify on RCMS control panel the RWM block is set to Prompting: Raise (It is snapped into IC).
6. Verify PPC Panel B Display has Bypass Valve display for BPV's 1&2. **SET SCALE** to 0-100.
7. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
8. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

You are the ATC NSO,

- Unit 1 is in Mode 1 and performing a fast turn-around startup after an automatic scram caused by a grid transient.
- Pre-Rod Movement Verification is complete per LOP-RM-01 Section E.1.
- Rod withdrawals are in-progress to establish 1 ½ Bypass Valves open per LGP-1-1, Normal Unit Startup, Step E.6.1.
- Single notch withdrawal is required per QNE.

INITIATING CUE

The Unit Supervisor has directed you to continue with control rod withdrawals to establish 1 ½ Bypass Valves open per LGP-1-1, Normal Unit Startup, Step E.6.1. Notify the Unit Supervisor when 1 ½ Bypass Valves are open.

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 Candidate 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.

Exelon Generation

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

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	The Candidate may obtain a copy of LOP-RM-01 but is not required since it is a "Information" level of use. If the Candidate determines to use the procedure, provide them with a copy of LOP-RM-01.				
*1	SELECT Control Rod 22-11.	Candidate SELECTS Control Rod 22-11.	☐	☐	___
*2	VERIFY the following switch position at panel 1H13-P603: CRD Drive Flow Trip Circuit Bypass Switch is in the BYPASS position.	Candidate PLACES CRD Drive Flow Trip Circuit Bypass Switch in the BYPASS position.	☐	☐	___
3	VERIFY the following switch position at panel 1H13-P603: CRD Drive Flow Trip Circuit Test Switch is in the NORMAL position.	Candidate VERIFIES CRD Drive Flow Trip Circuit Test Switch is in the NORMAL position.	☐	☐	___
*4	DEPRESS rod WITHDRAW push-button and CHECK Control Rod Withdraw sequence begins.	Candidate DEPRESSES rod WITHDRAW push-button and CHECKS Control Rod Withdraw sequence begins.	☐	☐	___

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*5	RELEASE rod WITHDRAW push button and CHECK: • Rod position indication on ROD SELECT Display, STATUS Display or CORE Map shows new rod position. • OBSERVE changes in nuclear instrumentation indications. • Rod SETTLE indication is lit for approximately 2 seconds.	Candidate RELEASES rod WITHDRAW push button and CHECKS: • Rod position indication on ROD SELECT Display, STATUS Display or CORE Map shows new rod position. (02) • OBSERVE changes in nuclear instrumentation indications. • Rod SETTLE indication is lit for approximately 2 seconds.	☐	☐	___
*6	DEPRESS rod WITHDRAW push-button and CHECK Control Rod Withdraw sequence begins.	Candidate DEPRESSES rod WITHDRAW push-button and CHECKS Control Rod Withdraw sequence begins.	☐	☐	___

Exelon Generation

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*7	RELEASE rod WITHDRAW push button and CHECK: • Rod position indication on ROD SELECT Display, STATUS Display or CORE Map shows new rod position. • OBSERVE changes in nuclear instrumentation indications. • Rod SETTLE indication is lit for approximately 2 seconds.	Candidate RELEASES rod WITHDRAW push button and CHECKS: • Rod position indication on ROD SELECT Display, STATUS Display or CORE Map shows new rod position. (04) • OBSERVE changes in nuclear instrumentation indications. • Rod SETTLE indication is lit for approximately 2 seconds.	☐	☐	___
*8	DEPRESS rod WITHDRAW push-button and CHECK Control Rod Withdraw sequence begins.	Candidate DEPRESSES rod WITHDRAW push-button and CHECKS Control Rod Withdraw sequence begins.	☐	☐	___
*9	RELEASE rod WITHDRAW push button and CHECK: • Rod position indication on ROD SELECT Display, STATUS Display or CORE Map shows new rod position. • OBSERVE changes in nuclear instrumentation indications. • Rod SETTLE indication is lit for approximately 2 seconds.	Candidate RELEASES rod WITHDRAW push button and IDENTIFIES loss of Control Rod positions indication.	☐	☐	___

Exelon Generation

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
10	NOTIFY Unit Supervisor of lost Control Rod position indication.	Candidate NOTIFIES Unit Supervisor of lost Control Rod position indication.	☐	☐	___
CUE	As Unit Supervisor, acknowledge the report. Direct the Candidate to notify you when the Control Rod indicates a valid position.				
NOTE: Candidate should refer to LOA-RM-101 for Alternate Path.					
ALTERNATE PATH BEGINS HERE					
11	IMMEDIATELY: • NOTIFY Shift Manager (SM) • CONTACT QNE • REFER to TS 3.1.3	Candidate IMMEDIATELY: • NOTIFY Shift Manager (SM) • CONTACT QNE • REFER to TS 3.1.3	☐	☐	___
CUE	As Shift Manager and QNE, acknowledge report.				
12	CHECK Control Rod Position – INDICATES "XX". SELECT ROD.	Candidate DETERMINES Control Rod Position INDICATES "XX" and SELECTS ROD.	☐	☐	___
13	CHECK Control Rod – NOT at position 00/FI prior to indication loss.	Candidate DETERMINES Control Rod NOT at position 00/FI prior to indication loss.	☐	☐	___
14	CHECK Control Rod – NOT at position FULL OUT (48/FO/++) or being notched out from 46 to FULL OUT prior to indication loss.	Candidate DETERMINES Control Rod NOT at position FULL OUT (48/FO/++) or being notched out from 46 to FULL OUT prior to indication loss.	☐	☐	___

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*15	INSERT control rod one notch: • PLACE CRD DRIVE FLOW TRIP CIRCUIT BYPASS Switch to BYPASS. ○ SET RWM Blocks to LPSP. ○ Bypass the Rod within RCMS per LOP-RM-02. ○ Bypass RWM. If ≤ 10% RTP, REFER to TS 3.3.2.1. • APPLY one single notch Insert command only.	Candidate INSERTS control rod one notch: • Candidate VERIFIES CRD DRIVE FLOW TRIP CIRCUIT BYPASS Switch in BYPASS. ○ Candidate BYPASSES RWM by placing the RWM BYPASS switch to BYPASS. • Candidate APPLIES one single notch Insert command only.	☐	☐	___
CUE	As required as the Unit Supervisor, direct the Candidate to BYPASS the Rod Worth Minimizer.				
16	CHECK Control Rod – INDICATES new valid position.	Candidate DETERMINES Control Rod INDICATES new valid position.	☐	☐	___
CUE	As the Unit Supervisor, inform the Candidate that another NSO will print the H-V Matrix.				
17	CHECK Sequence – CURRENTLY REQUIRES rod to be withdrawn or inserted past the Data Faulted (XX) position.	Candidate DETERMINES Sequence CURRENTLY REQUIRES rod to be withdrawn past the Data Faulted (XX) position.	☐	☐	___
*18	POSITION control rod per approved Sequence.	Candidate POSITIONS control rod per approved Sequence by DEPRESSING the WITHDRAW push-button twice until control rod indicates position “08”.	☐	☐	___

Exelon Generation

Task Standard:
During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: An approved sequence position is position 8. The ReMA states it may be withdrawn to 48. Initiating cue states to notify when 1 ½ Bypass Valves open, which will not be completed in this JPM. It is acceptable to give terminating cue after this point.					
19	Notify Unit Supervisor that Control Rod 22-11 indicates a valid position.	Candidate notifies Unit Supervisor that Control Rod 22-11 indicates a valid position.	☐	☐	___
CUE	As Unit Supervisor, acknowledge report. JPM complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Startup Rod Withdrawals with a Loss of Rod Position Indication

JPM Number: S-NR-11 Revision Number: 04

Task Number and Title: 47.012 Provided initial conditions, perform the Main Control Room actions for a Loss of Control Rod Position Information System, IAW LOA-RM-101/201.

Task Standard: During withdrawal of a control rod, Candidate loses position indication and enters LOA-RM-101. Candidate inserts control rod one notch and confirms valid position indication and then positions the rod to the approved sequence position.

K/A Number and Importance: 214000 A2.01 3.1/3.3

Suggested Testing Environment: Simulator

Alternate Path: ☒ Yes ☐ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LGP-1-1	Revision:	132
Procedure:	LOP-RM-01	Revision:	48
Procedure:	LOA-RM-101	Revision:	25
Procedure:		Revision:	

Actual Testing Environment: ☒ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☒ Perform

Estimated Time to Complete: 14 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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 ATC NSO,

- Unit 1 is in Mode 1 and performing a fast turn-around startup after an automatic scram caused by a grid transient.
- Pre-Rod Movement Verification is complete per LOP-RM-01 Section E.1.
- Rod withdrawals are in-progress to establish 1 ½ Bypass Valves open per LGP-1-1, Normal Unit Startup, Step E.6.1.
- Single notch withdrawal is required per QNE based on potential fuel failure concerns for flagged control rods.

INITIATING CUE

The Unit Supervisor has directed you to continue with control rod withdrawals to establish 1 ½ Bypass Valves open per LGP-1-1, Normal Unit Startup, Step E.6.1. Notify the Unit Supervisor when 1 ½ Bypass Valves are open.

Exelon Generation

Job Performance Measure

Respond to High Control Room Radiation

JPM Number: S-VC-01

Revision Number: 07

Date: 11/26/2022

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

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

Exelon Generation

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: LOR-1PM13J-B401 Revision: 10
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
00	New JPM written for 2010 Annual Exam by Gordon W. Beale
01	Added cue about VC Makeup Run Timer not moving. Removed steps after the Emergency Makeup Train is placed on-line.
02	Updated JPM to current procedures and JPM Template for the ILT 11-1 NRC Exam. The revised JPM is no longer considered Alternate Path.
03	Added new check list. Made JPM for any IC set.
04	Revised for editorial changes
05	Updated for editorial changes.
06	Reformatted to the most recent version of TQ-AA-150-J020.
07	Updated for editorial changes.

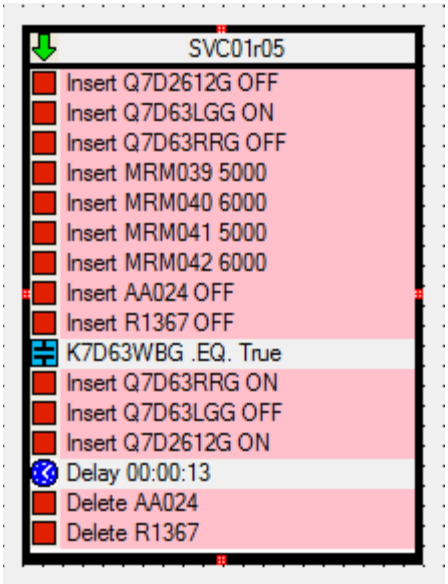
Exelon Generation

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

1. Reset the simulator to IC 151, 100% Power.

NOTE:	It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. LOAD and RUN the SmartScenario file: **SVC01r05.ssf**.
3. VERIFY 0A CR EMER M/U FAN Switch is in NAT.
4. VERIFY all four VC Rad Monitors are in alarm and messages are on the SER.
5. Acknowledge annunciators.
6. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist.
7. This completes the setup for this JPM.



Exelon Generation

INITIAL CONDITIONS

You are the Assist NSO,

- The 'B' VC/VE Train is Out of Service for a Work Window.
- Annunciator 1PM13J-B401, Control Room HVAC or Radwaste Reboiler Steam Outlet High Radiation or Instrument Failure, has just alarmed.

INITIATING CUE

The Unit Supervisor has directed you to respond to the Alarm 1PM13J-B401. Notify the Unit Supervisor when all LOR actions are 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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate responds to alarm and determines alarm is due to Control Room HVAC High Radiation. Candidate starts EMU and places Recirculation Charcoal Filter in Filter position IAW LOR-1PM13J-B401.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: Step B.1 is NOT APPLICABLE since the 'B' VC/VE train is Out of Service based on the Initial Conditions.					
1	If 0A Emer MU Fan 0VC03CA is running on the non-operating VC train (B VC Train is running).	Candidate determines step is NOT APPLICABLE based on Initial Conditions.	☐	☐	___
2	CHECK alarm typer printout to determine if alarm is due to Control Room HVAC High Radiation, Reboiler High Radiation, or Rad Instrument Failure.	Candidate CHECKS alarm typer printout to determine alarm is due to Control Room HVAC High Radiation. (SER Points: R1387 & 1389)	☐	☐	___
NOTE: The following steps are for alarm caused by Control Room Outside Air High Radiation (Step B.3).					
3	At 1PM05J, PERFORM the following:	Candidate PERFORMs the following at 1PM05J:			
*4	VERIFY 0A CR HVAC Emer MU Fan 0VC03CA is RUNNING.	Candidate STARTS 0A CR HVAC Emer MU Fan 0VC03CA.	☐	☐	___
*5	MANUALLY ALIGN CR HVAC Recirculation Charcoal Filter by placing 0A CR HVAC Charcoal Filter Damper Control switch to FILTER position.	Candidate MANUALLY ALIGNS CR HVAC Recirculation Charcoal Filter by placing 0A CR HVAC Charcoal Filter Damper Control switch to FILTER position.	☐	☐	___

Exelon Generation

Task Standard:
Candidate responds to alarm and determines alarm is due to Control Room HVAC High Radiation. Candidate starts EMU and places Recirculation Charcoal Filter in Filter position IAW LOR-1PM13J-B401.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
6	VERIFY following Charcoal Filter damper positions: • Inlet 0VC11YA is OPEN • Outlet 0VC12YA is OPEN • Bypass 0VC13YA is CLOSED.	Candidate VERIFIES following Charcoal Filter damper positions: • Inlet 0VC11YA is OPEN • Outlet 0VC12YA is OPEN • Bypass 0VC13YA is CLOSED.	☐	☐	___
7	VERIFY 0A VC Purge Damper Control Switch is in OFF position.	Candidate VERIFIES 0A VC Purge Damper Control Switch is in OFF position.	☐	☐	___
CUE	When Candidate directs an Equipment Operator to perform the local actions at 0PA09J (Step B.3.b), inform the Candidate that the JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Respond to High Control Room Radiation

JPM Number: S-VC-01 Revision Number: 07

Task Number and Title: 117.016 Given a valid alarm on the VC/VE system, respond to VC/VE system abnormalities (i.e. hi rad, smoke, etc.), IAW LOR-1PM13J-B401.

Task Standard: Candidate responds to alarm and determines alarm is due to Control Room HVAC High Radiation. Candidate starts EMU and places Recirculation Charcoal Filter in Filter position IAW LOR-1PM13J-B401.

K/A Number and Importance: 290003 A2.03 3.5/3.8

Suggested Testing Environment: Simulator

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: LOR-1PM13J-B401 Revision: 10

Procedure: _____ Revision: _____

Procedure: _____ Revision: _____

Procedure: _____ Revision: _____

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 ☐ No

The 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 Assist NSO,

- The ‘B’ VC/VE Train is Out of Service for a Work Window.
- Annunciator 1PM13J-B401, Control Room HVAC or Radwaste Reboiler Steam Outlet High Radiation or Instrument Failure, has just alarmed.

INITIATING CUE

The Unit Supervisor has directed you to respond to the Alarm 1PM13J-B401. Notify the Unit Supervisor when all LOR actions are complete.

Job Performance Measure

Perform Alternate Rod Insertion IAW LGA-NB-101/201

JPM Number: P-NB-04

Revision Number: 20

Date: 11/23/22

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

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

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: LGA-NB-101 Revision: 00
   Procedure: LGA-NB-201 Revision: 00
   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
Revision 11	Utilized new template & made minor editorial changes.
Revision 12	05/23/00Verified against current procedure and revised procedure reference. Revised task number to comply with new task list. Revised K&A number to comply with current task list. Minor editorial changes for clarity. Verified format IAW NTAFT JLOR-3 Rev. 2
Revision 13	Revised to reflect new procedure changes.
Revision 14	Revised to rev. 7 of LGA-NB-01. The Candidate's sheet was updated to add a cue. JPM was modified due to ALARA concerns and a photograph was added to keep the evaluator's and the Candidate off the catwalk because of a hotspot.
Revision 15	Revised for procedure and JPM template changes.
Revision 16	Removed certain cues & inserted note for alternate path designation.
Revision 17	Added new checklist. Changed Fuse Removal Attachment Letter designations for new attachments.
Revision 18	Revised to most current JPM template.
Revision 19	Updated to procedure revision
Revision 20	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision. Changed to remove Main Control Room portion and no longer an Alternate Path JPM. JPM performed in the plant.

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

1. Have a copy of LGA-NB-101/201
2. A laser pointer
3. Colored picture of SCRAM Air Header Filter Assembly with isolation valves.
4. This JPM can be performed on either unit. Fill in the appropriate unit number on the Initial Conditions page prior to conducting the JPM.

INITIAL CONDITIONS

You are an extra NSO,

- An ATWS has occurred on Unit ___ from full power, NO rod movement was observed.
- RPS Manual SCRAM Pushbuttons have been depressed and the Mode Switch was taken to SHUTDOWN.
- ARI Pushbuttons have been depressed but ARI did not initiate.
- All SCRAM Valves are still closed.
- Both SDV Vent and Drain valves are OPEN.
- LGA-NB-___ Method 1 Fuse Removal was unsuccessful.
- SDV Level is normal.
- Both CRD Pumps are TRIPPED and will not restart.
- You have a Wi-Fi phone.

INITIATING CUE

The Unit ___ Supervisor has directed you to perform LGA-NB-____, Alternate Rod Insertion, Method 2. Coordinate with the Unit ___ NSO until all Control Rods are FULL-IN.

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 Candidate 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:

Candidate will vent and remove the CRD HCU air supply filter to vent the SCRAM Air Header to insert the control rods IAW LGA-NB-101/201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: After the Candidate demonstrates where to obtain a copy of the procedure, provide them with a copy of LGA-NB-101/201.					
1	Candidate obtains a copy of LGA-NB-101/201, UNIT 1/2 ALTERNATE ROD INSERTION	Candidate demonstrates the ability to retrieve a current copy of LGA-NB-101/201 or makes copy from controlled set.	☐	☐	___
NOTE: Candidate may go to the filter without the LGA-NB-101/201 Support Locker bag since a crescent wrench is located in the YELLOW box near the HCUs for HCU LOR response, or may acquire the wrench from the Equipment Cage on 761' Elevation.					
2	Obtain LGA-NB-101/201 Method 2 bag containing a 12" crescent wrench from LGA-Support Locker.	Candidate obtains LGA-NB-101/201 Method 2 bag containing a 12" crescent wrench from LGA-Support Locker.	☐	☐	___
NOTE: Candidate should note warning for rapidly changing radiological conditions during emergency event. **If asked,** provide the following cue: CUE: RP reports that radiation readings on the 761' Elevation of Reactor Building are normal.					
NOTE: Due to ALARA concerns, **DO NOT GO UP ON THE CATWALK**. Have the Candidate point to the components that will be manipulated with a laser pointer, then go to a low dose area on RB 761' and **use the attached photograph** for the rest of the JPM. (The photo is from Unit 1. Valve numbers are the same if performed on Unit 2)					
3	VENT and REMOVE CRD HCU AIR SUPPLY FILTER from Northwest HCU catwalk as follows:	Candidate locates CRD HCU AIR SUPPLY FILTER and vents and removes, as follows:	☐	☐	___

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

Task Standard:
Candidate will vent and remove the CRD HCU air supply filter to vent the SCRAM Air Header to insert the control rods IAW LGA-NB-101/201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*4	ISOLATE CRD HCU AIR Supply Filter, 1(2)C11-D006, at U1 RB 761' G-14 (U2 RB 761' G-20), N.W. on HCU Walkway: • CLOSE 1(2)IA187, CRD HCU AIR FILTER INLET VALVE. • CLOSE 1(2)IA188, CRD HCU AIR FILTER OUTLET VALVE. • CLOSE 1(2)IA189, CRD HCU AIR FILTER BYPASS VALVE.	Candidate locates and isolates the CRD HCU AIR Supply Filter, 1(2)C11-D006, at U1 RB 761' G-14 (U2 RB 761' G-20), N.W. on HCU Walkway, as follows: • CLOSES 1(2)IA187, CRD HCU AIR FILTER INLET VALVE. • CLOSES 1(2)IA188, CRD HCU AIR FILTER OUTLET VALVE. • CLOSES 1(2)IA189, CRD HCU AIR FILTER BYPASS VALVE.	☐	☐	___
CUE	After each valve manipulation - The component you identified is in the condition you described.				
5	REMOVE plug on the bottom of CRD HCU AIR SUPPLY FILTER, 1(2)C11-D006, to vent filter.	Candidate removes the plug on the bottom of CRD HCU AIR SUPPLY FILTER, 1(2)C11-D006.	☐	☐	___
CUE	The component you identified is in the condition you described.				
*6	REMOVE CRD HCU AIR SUPPLY FILTER, 1(2)C11-D006.	Candidate removes the CRD HCU AIR SUPPLY FILTER, 1(2)C11-D006.	☐	☐	___
CUE	The component you identified is in the condition you described.				
*7	RAPIDLY FULLY OPEN 1(2)IA188, CRD HCU AIR FILTER OUTLET VALVE, to vent scram air header.	Candidate RAPIDLY FULLY OPENS 1(2)IA188, CRD HCU AIR FILTER OUTLET VALVE.	☐	☐	___

SRRS: 3D.100; There are no retention requirements for this section

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

Task Standard:
Candidate will vent and remove the CRD HCU air supply filter to vent the SCRAM Air Header to insert the control rods IAW LGA-NB-101/201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	The component you identified is in the condition you described. A rush of air is heard and numerous accumulators can be heard discharging then the sound stops.				
CUE	If the Candidate begins actions to re-install the CRD HCU AIR SUPPLY FILTER, inform the Candidate that the filter and plug are installed and CRD HCU AIR FILTER INLET VALVE 1(2)IA187 is open.				
8	CONTACT Unit 1(2) NSO to determine status of Control Rods.	Candidate CONTACTS Unit 1(2) NSO to determine status of Control Rods.	☐	☐	___
CUE	As Unit 1(2) NSO, report that all Control Rods are FULL-IN. 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: Perform Alternate Rod Insertion IAW LGA-NB-101/201

JPM Number: P-NB-04 Revision Number: 20

Task Number and Title: 431.000 Given entry in LGA-010, Failure to SCRAM, evaluate plant conditions and shutdown the reactor, IAW LGA-NB-101/201

Task Standard: Candidate will vent and remove the CRD HCU air supply filter to vent the SCRAM Air Header to insert the control rods IAW LGA-NB-101/201.

K/A Number and Importance: 295037 EA1.05 3.9

Suggested Testing Environment: Plant

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LGA-NB-101	Revision:	00
Procedure:	LGA-NB-201	Revision:	00
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 ☐ No

The 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 an extra NSO,

- An ATWS has occurred on Unit __ from full power, NO rod movement was observed.
- RPS Manual SCRAM Pushbuttons have been depressed and the Mode Switch was taken to SHUTDOWN.
- ARI Pushbuttons have been depressed but ARI did not initiate.
- All SCRAM Valves are still closed.
- Both SDV Vent and Drain valves are OPEN.
- LGA-NB-___ Method 1 Fuse Removal was unsuccessful.
- SDV Level is normal.
- Both CRD Pumps are TRIPPED and will not restart.
- You have a Wi-Fi phone.

INITIATING CUE

The Unit ___ Supervisor has directed you to perform LGA-NB-____, Alternate Rod Insertion, Method 2. Coordinate with the Unit ___ NSO until all Control Rods are FULL-IN.

Exelon Generation

Job Performance Measure

Emergency Start of the '0' DG IAW LOA-DG-201 via the K98 Relay

JPM Number: P-DG-04

Revision Number: 12

Date: 11/23/22

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

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

Exelon Generation

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: LOA-DG-201 Revision: 10
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 03	Revised task numbers to reflect current task numbers. Revised K/A numbers to reflect NUREG 1021 Rev 8. Revised format to meet NTAFT JLOR03 Rev 1. Changed JPM to Revised steps to reflect LOA-DG-201 Rev1. Made JPM unit specific.
Revision 04	Revised task number for new operations task list.
Revision 05	Revised JPM for Windows 2000 computers and validation time.
Revision 06	Added step to check DC Power Available and initiating cue to the Candidate's initial conditions.
Revision 07	Minor formatting and editorial changes. Updated to reflect criteria from NuReg 1021, Rev. 9, Supplement 1 and NuReg 1123, Rev. 2, Supplement 1.
Revision 08	Changed JPM (based on NRC comments) such that the Candidate is provided a marked up copy of LOA-DG-201 and is directed to begin at step B.1.3 per the initial conditions. This resulted in changing the steps and cues in the JPM body.
Revision 09	Revised to incorporate procedure changes and formatting.
Revision 10	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 11	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 12	Minor formatting and editorial changes.

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

1. Copy of LOA-DG-201
2. Have a laser pointer and a flashlight.

Exelon Generation

INITIAL CONDITIONS

You are an extra NSO,

- A LOCA has occurred on Unit 2.
- The Unit 2 SAT has TRIPPED.
- The ‘0’ DG has failed to START.
- The ‘0’ DG READY FOR AUTO START light is lit.
- DC Power for the ‘0’ DG is available.
- You have a Wi-Fi phone.

INITIATING CUE

The Unit 2 Supervisor has directed you to locally start the ‘0’ DG per LOA-DG-201, DG Failure, section B.1. Notify the Unit 2 Supervisor when the ‘0’ DG is running.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate will simulate performance of emergency starting the "0" DG using the U2 LOCA K098A relay in the AEER IAW LOA-DG-201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	Candidate should determine from the Initial Conditions that the READY FOR AUTO START light is lit.				
1	CHECK '0' DG READY FOR AUTO START light – LIT.	Candidate CHECKS '0' DG READY FOR AUTO START light – LIT.	☐	☐	___
CUE	As required, the READY FOR AUTO START light is lit.				
NOTE:	Candidate should determine from the Initial Conditions that DC power is AVAILABLE.				
2	CHECK DC power – AVAILABLE.	Candidate CHECKS DC power – AVAILABLE.	☐	☐	___
CUE	As required, DC power is available.				
3	ESTABLISH communications between Unit 2 Control Room and 0 DG Room to OBSERVE Air Start Motor operation during start attempts.	Candidate ESTABLISHES communications between Unit 2 Control Room and 0 DG Room.	☐	☐	___
CUE	Acknowledge as the Unit 2 Assist NSO communications established.				
*4	From the Main Control Room START - 0 DG.	Candidate DIRECTS the Assist NSO from the Main Control Room START - 0 DG.	☐	☐	___
CUE	As Unit 2 Assist NSO, acknowledge report. '0' DG START C/S taken to START. You hear no noise nor see any movement on the DG.				
5	CHECK '0' DG – NOT RUNNING.	Candidate determines the '0' DG is NOT RUNNING.	☐	☐	___

Exelon Generation

Task Standard:

Candidate will simulate performance of emergency starting the "0" DG using the U2 LOCA K098A relay in the AEER IAW LOA-DG-201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
6	CHECK Air Start Motors – DID NOT ENGAGE.	Examine determines the Air Start Motors did NOT ENGAGE.	☐	☐	___
CUE	As required, you hear no noise changes nor see any movement on the DG.				
*7	PLACE 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to - MAN.	Candidate PLACES 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to - MAN.	☐	☐	___
CUE	The component you identified is in the condition you described.				
*8	DEPRESS and HOLD, 0HS-DGS004, 0 Diesel Generator Engine Start Pushbutton for a minimum of 2 seconds.	DEPRESS and HOLD, 0HS-DGS004, 0 Diesel Generator Engine Start Pushbutton for a minimum of 2 seconds.	☐	☐	___
CUE	The component you identified is in the condition you described. You hear no noise nor see any movement on the DG.				
9	CHECK 0 DG – NOT RUNNING.	Candidate determines the '0' DG is NOT RUNNING.	☐	☐	___
10	CHECK Air Start Motors – DID NOT ENGAGE.	Candidate determines the Air Start Motors did NOT ENGAGE.	☐	☐	___
CUE	As required, you hear no noise nor see any movement on the DG.				
*11	PLACE 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to - AUTO.	Candidate PLACES 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to - AUTO.	☐	☐	___
CUE	The component you identified is in the condition you described.				
12	From the Main Control Room CHECK LOCA initiation signal – PRESENT.	Candidate CHECKS with Unit 2 Assist NSO if LOCA initiation signal – PRESENT.	☐	☐	___

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

Exelon Generation

Task Standard:
Candidate will simulate performance of emergency starting the "0" DG using the U2 LOCA K098A relay in the AEER IAW LOA-DG-201.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	As Unit 2 Assist NSO, LOCA signal is present.				
13	ESTABLISH communications between Unit 2 Control Room and Unit 2, Div 1, Auxiliary Electric Equipment Room.	Candidate ESTABLISHES communications between Unit 2 Control Room and Unit 2, Div 1, Auxiliary Electric Equipment Room.	☐	☐	___
CUE	As Unit 2 Assist NSO, acknowledge report.				
14	CHECK Low Level/ Hi Drywell Pressure relay 2E12A-K098A at 2H13-P629 - CLOSED.	Candidate CHECKS Low Level/ Hi Drywell Pressure relay 2E12A-K098A at 2H13-P629 - CLOSED.	☐	☐	___
CUE	When the Candidate identifies the Low Level/ Hi Drywell Pressure relay 2E12A-K098A and checks it to be closed, inform them that the relay is OPEN.				
ALTERNATE PATH BEGINS HERE					
*15	REMOVE relay 2E12A-K098A cover.	Candidate REMOVES relay 2E12A-K098A cover.	☐	☐	___
CUE	The component you identified is in the condition you described.				
*16	MANUALLY INITIATE and HOLD relay 2E12A-K098A for a minimum of 20 seconds.	Candidate MANUALLY INITIATES and HOLDS relay 2E12A-K098A for a minimum of 20 seconds.	☐	☐	___
CUE	The component you identified is in the condition you described. Time Compression is in effect – 20 seconds has elapsed.				
17	CHECK 0 DG – NOT RUNNING.	Candidate determines the '0' DG is RUNNING.	☐	☐	___

Exelon Generation

Task Standard: Candidate will simulate performance of emergency starting the “0” DG using the U2 LOCA K098A relay in the AEER IAW LOA-DG-201.					
STEP	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
CUE	As the Unit 2 Assist NSO, report that the ‘0’ DG RUNNING light is lit, Breaker 2413 is closed energizing Bus 241Y, and the Unit Supervisor has been notified. JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Emergency Start of the '0' DG IAW LOA-DG-201 via the K98 Relay

JPM Number: P-DG-04 Revision Number: 12

Task Number and Title: 11.003 Given a valid start signal with a failure to start, perform the in plant actions for a Diesel Generator start failure, IAW LOA-DG-101/201.

Task Standard: Candidate will simulate performance of emergency starting the "0" DG using the U2 LOCA K098A relay in the AEER IAW LOA-DG-201.

K/A Number and Importance: 264000 A2.11 4.6 / 4.3

Suggested Testing Environment: Plant

Alternate Path: ☒ Yes ☐ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOA-DG-201	Revision:	10
Procedure:		Revision:	
Procedure:		Revision:	
Procedure:		Revision:	

Actual Testing Environment: ☐ Simulator ☐ Control Room ☒ In-Plant ☐ Other

Testing Method: ☒ Simulate ☐ Perform

Estimated Time to Complete: 17 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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 NSO,

- A LOCA has occurred on Unit 2.
- The Unit 2 SAT has TRIPPED.
- The ‘0’ DG has failed to START.
- The ‘0’ DG READY FOR AUTO START light is lit.
- DC Power for the ‘0’ DG is available.
- You have a Wi-Fi phone.

INITIATING CUE

The Unit 2 Supervisor has directed you to locally start the ‘0’ DG per LOA-DG-201, DG Failure, section B.1. Notify the Unit 2 Supervisor when the ‘0’ DG is running.

SRRS: 3D.100; There are no retention requirements for this section

Job Performance Measure

Re-Align the 0WR01P Pump from Unit 1 to Unit 2

JPM Number: P-WR-01

Revision Number: 03

Date: 11/23/22

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

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

Exelon Generation

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: LOP-WR-02 Revision: 26
   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

Exelon Generation

Revision Record (Summary)

Revision #	Summary
Revision 00	New JPM developed for the LORT 2015 NRC Annual Exam.
Revision 01	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 02	Reformatted to the most recent version of TQ-AA-150-J020 and revised to current procedure revision.
Revision 03	Minor formatting changes.

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

1. Copy of LOP-WR-02

Exelon Generation

INITIAL CONDITIONS

You are an Extra NSO,

- Unit 1 and Unit 2 are at rated conditions.
- The 2WR01PA is running.
- The 2WR01PB will be taken OOS.
- The 1WR01PA is RUNNING on Unit 1.
- The 0WR01P is SECURED.
- Both RBCCW Expansion Tanks are online and level is being maintained in automatic.
- The Unit 2 BOP NSO is standing by to assist you.
- You have a plant radio.

INITIATING CUE

The Unit 2 BOP NSO has directed you to place the Common RBCCW Pump, 0WR01P, on Unit 2 per LOP-WR-02, Startup and Operation of the Reactor Building Closed Cooling Water System. Notify the Unit 2 BOP NSO when the Common RBCCW Pump, 0WR01P, is ready to be started on Unit 2.

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 Candidate 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.

Exelon Generation

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

Task Standard:
Candidate simulates establishing a valve lineup to align the common WR pump to Unit 2 IAW LOP-WR-02.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1	VERIFY the Common RBCCW Pump, 0WR01P, is off.	Candidate determines from the Initial Conditions that the Common RBCCW Pump, 0WR01P, is off.	☐	☐	___
CUE	If required, the Common RBCCW Pump, 0WR01P, is off.				
*2	VERIFY the following valves are closed: • 1WR043C, Unit 1 Common Plant RBCCW Pump Suction Stop. • 1WR002C, Unit 1 Common Plant RBCCW Pump Discharge Stop	Candidate CLOSES the following valves: • 1WR043C, Unit 1 Common Plant RBCCW Pump Suction Stop. • 1WR002C, Unit 1 Common Plant RBCCW Pump Discharge Stop	☐	☐	___
CUE	For each valve: The component you identified is in the condition you described.				
3	VERIFY the following valves are closed: • 2WR043C, Unit 2 Common Plant RBCCW Pump Suction Stop. • 2WR002C, Unit 2 Common Plant RBCCW Pump Discharge Stop.	Candidate VERIFIES the following valves are closed: • 2WR043C, Unit 2 Common Plant RBCCW Pump Suction Stop. • 2WR002C, Unit 2 Common Plant RBCCW Pump Discharge Stop.	☐	☐	___
CUE	For each valve: The component you identified is in the condition you described.				
4	To line up the Common RBCCW Pump on Unit 2, PERFORM the following:	Candidate PERFORMS the following to line up the Common RBCCW Pump on Unit 2:			

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Task Standard:
Candidate simulates establishing a valve lineup to align the common WR pump to Unit 2 IAW LOP-WR-02.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*5	OPEN 2WR043C, Unit 2 Common Plant RBCCW Pump Suction Stop.	Candidate OPENS 2WR043C, Unit 2 Common Plant RBCCW Pump Suction Stop.	☐	☐	___
CUE	The component you identified is in the condition you described.				
*6	OPEN 2WR002C, Unit 2 Common Plant RBCCW Pump Discharge Stop.	Candidate OPENS 2WR002C, Unit 2 Common Plant RBCCW Pump Discharge Stop.	☐	☐	___
CUE	The component you identified is in the condition you described.				
7	VENT the 0WR01P suction and discharge piping on U-2 by OPENING the following valves until all the air is vented then CLOSE and CAP the valves: • 2WR250, RBCCW Heat Exchr 0WR01A Outlet to U2 RBCCW High Point Vent Stop (02 RB C-15, 786 S Wall by Pumps) • 2WR251, RBCCW Pump 0WR01P Discharge to U2 RBCCW High Point Vent Stop (02 RB C-15, 786 S Wall by Pumps) • 2WR249, RBCCW Pump Suction Cross-Tie Vent Stop (02 RB C-15, 786 S Wall by Pumps)	Candidate VENTS the 0WR01P suction and discharge piping on U-2 by OPENING the following valves until all the air is vented then CLOSING and CAPPING the valves: • 2WR250, RBCCW Heat Exchr 0WR01A Outlet to U2 RBCCW High Point Vent Stop (02 RB C-15, 786 S Wall by Pumps) • 2WR251, RBCCW Pump 0WR01P Discharge to U2 RBCCW High Point Vent Stop (02 RB C-15, 786 S Wall by Pumps) • 2WR249, RBCCW Pump Suction Cross-Tie Vent Stop (02 RB C-15, 786 S Wall by Pumps)	☐	☐	___

Exelon Generation

Task Standard:
Candidate simulates establishing a valve lineup to align the common WR pump to Unit 2 IAW LOP-WR-02.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	For each valve: When valve is opened - the component you identified is in the condition you described. You hear air passing through the vent followed a seeing a solid stream of water. When valve is closed - the component you identified is in the condition you described.				
9	NOTIFY the Unit 2 Supervisor the Common RBCCW Pump, 0WR01P is aligned to Unit 2 and ready to be started.	Candidate NOTIFIES the Unit 2 Supervisor the Common RBCCW Pump, 0WR01P is aligned to Unit 2 and ready to be started.	☐	☐	___
CUE	As Unit 2 BOP NSO, acknowledge the report. JPM is complete.				

JPM Stop Time: _____

Exelon Generation

JPM SUMMARY

Operator's Name: _____ **Emp. ID#:** _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Re-Align the 0WR01P Pump from Unit 1 to Unit 2

JPM Number: P-WR-01 Revision Number: 03

Task Number and Title: 114.009 Given Unit Supervisor authorization, perform the in plant actions to shift the reactor building closed cooling water (RBCCW) pumps, IAW LOP-WR-02.

Task Standard: Candidate simulates establishing a valve lineup to align the common WR pump to Unit 2 IAW LOP-WR-02.

K/A Number and Importance: 400000 A2.01 4.1 / 3.9

Suggested Testing Environment: Plant

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure:	LOP-WR-02	Revision:	26
Procedure:		Revision:	
Procedure:		Revision:	
Procedure:		Revision:	

Actual Testing Environment: ☐ Simulator ☐ Control Room ☒ In-Plant ☐ Other

Testing Method: ☒ Simulate ☐ Perform

Estimated Time to Complete: 17 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The 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): _____ **Date**: _____

Evaluator's Signature: _____ **Date**: _____

INITIAL CONDITIONS

You are an Extra NSO,

- Unit 1 and Unit 2 are at rated conditions.
- The 2WR01PA is running.
- The 2WR01PB will be taken OOS.
- The 1WR01PA is RUNNING on Unit 1.
- The 0WR01P is SECURED.
- Both RBCCW Expansion Tanks are online and level is being maintained in automatic.
- The Unit 2 BOP NSO is standing by to assist you.
- You have a plant radio.

INITIATING CUE

The Unit 2 BOP NSO has directed you to place the Common RBCCW Pump, 0WR01P, on Unit 2 per LOP-WR-02, Startup and Operation of the Reactor Building Closed Cooling Water System. Notify the Unit 2 BOP NSO when the Common RBCCW Pump, 0WR01P, is ready to be started on Unit 2.