Exelon Generation

Job Performance Measure

Review a QPTR Calculation for Acceptance Criteria

JPM Number: __**SA-1-05-0**__

Revision Number: ____0____

Date: __07/08/21__

Developed By: __Benjamin Reyes__ / _____ __07/07/21__
Instructor: Print / Sign   Date

Reviewed By: __Barry Mingus__ / _____ __07/08/21__
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 logo]

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: 1BOSR 2.4.1-1   Revision: 16
   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

Revision Record (Summary)

Revision #	Summary
0	– Created new

SETUP INSTRUCTIONS

1. This is an administrative JPM that may be performed in any setting where the necessary procedures and support information can be provided.

2. Verify current revisions of the following information is available for the JPM performance:

    *   1BOSR 2.4.1-1   Rev: 16

3. ENSURE the following is available during performance of the JPM:

    *   Completed 1BOSR 2.4.1-1 Rev: 16 Handout
    *   Operator Aid with 100% currents
    *   Blank Data 3 Sheet
    *   Calculator

4. ENSURE the following between performances of the JPM:

    *   New clean procedure copies for candidate to work from during performance

5. This completes the setup for this JPM.

INITIAL CONDITIONS

You are the Unit 1 Unit Supervisor

Unit 1 is in Mode 1, 100% power, steady state

The Plant Process Computer has been inoperable for the last 30 minutes

PDMS is inoperable

The Unit NSO has just completed 1BOSR 2.4.1-1, UNIT ONE QUADRANT POWER TILT RATIO CALCULATION using the IM DVM data to satisfy the weekly surveillance frequency.

All NI channels are OPERABLE.

The Shift Manager has given his permission and the cover sheet has been signed

Indicated power readings: N41=99.8%, N42=99.8%, N43=99.9%, N44=99.9%

DVM Data:

QA#: RT25689   Cal Date: 10/16/21

Upper Detector A N41: 0.197	Lower Detector B N41: 0.196
Upper Detector A N42: 0.190	Lower Detector B N42: 0.193
Upper Detector A N43: 0.192	Lower Detector B N43: 0.190
Upper Detector A N44: 0.192	Lower Detector B N44: 0.190

INITIATING CUE

Review the completed 1BOSR 2.4.1-1 UNIT ONE QUADRANT POWER TILT RATIO CALCULATION surveillance to ensure correct completion and verify acceptance criteria. Document on the cue sheet.

Acceptance Criteria met: Y   N

LCO Entry required: Y   N

LCO (N/A if entry not required):

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.
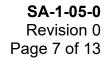
Information For Evaluator's Use:

UNSAT requires written comments on respective step.

 * Denotes critical steps: **4, 7, 8, 9, 10, 11, & 12**

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:

The candidate will review the completed QPTR 1BOSR 2.4.1-1 using the provided IM DVM data and document on Cue sheet. The candidate will use the completed calculation and determine an error in the QPTR at step F.2.e. The candidate will determine that N41 is above the acceptance criteria of 1.02. The candidate will determine that the surveillance does not meet the acceptance criteria and determine that entry into Tech Spec 3.2.4 QUADRANT POWER RANGE TILT RATIO (QPTR) is required.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1.	Refer to 1BOSR 2.4.1-1, Unit One Quadrant Power Tilt Ratio Calculation completed surveillance	• Refer to Handout	☐	☐	___
2.	Review proper step completed	• VERIFIES Step F.1 is N/A • VERIFIES Step F.2 is completed	☐	☐	___
3.	Review Step 2.a data on Data sheet D3	• VERIFIES information on Data Sheet D3 matches cue information • Indicated power readings • N41 = 99.8% • N42 = 99.8% • N43 = 99.9% • N44 = 99.9%	☐	☐	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
* 4.	Verify detector current	• VERIFY information on Data Sheet D3 from cue sheet multiplied by 1000 • Upper Detector Current • N-41 = 197 • N-42 = 190 • N-43 = 192 • N-44 = 192 • Lower Detector Current • N-41 = 196 • N-42 = 193 • N-43 = 190 • N-44 = 190	☐	☐	___
5.	Verify DVM QA number and Cal Date recorded	• VERFIY DVM QA number and Cal Date recorded on Data Sheet D3 • QA#: RT25689 • Cal Date: 10/16/21	☐	☐	___
6.	Verify data from Operator Aid	• VERIFY information from Operator Aid recorded on Data Sheet D3 • Upper Detector Current • N-41 = 200.5 • N-42 = 199.2 • N-43 = 200.5 • N-44 = 202.8 • Lower Detector Current • N-41 = 201 • N-42 = 201.3 • N-43 = 199.5 • N-44 = 200.5	☐	☐	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	The surveillance actual value is calculated so that the QPTR will <u>not</u> meet surveillance acceptance criteria. An error is in the calculation that shows acceptance criteria is met. The values in bold are from the Data sheet. The correct values are in parenthesis behind the shown data, as the error will carry forward.				
	Depending on what point in the calculations the candidates makes rounding calculated numbers, final answers by the candidate may not exactly match those on the data sheet. This is satisfactory as long as the error is determined in the correct detector N41.				

* 7.	Review the Normalized Detector Current
	
	N41 Calculation is the critical portion of this step.
		• VERIFY, on Data Sheet D3, the Normalized Detector Current by dividing the obtained detector current by the 100% current (obtained in Step F.2.c):
		
		• Upper Detector Current
		   • N-41 = 197/200.5 **= 0.9285 (0.9825)**
		   • N-42 = 190/199.2 **= 0.9538**
		   • N-43 = 192/200.5 **= 0.9576**
		   • N-44 = 192/202.8 **= 0.9467**
		
		• Lower Detector Current
		   • N-41 = 196/201.0 **= 0.9751**
		   • N-42 = 193/201.3 **= 0.9588**
		   • N-43 = 190/199.5 **= 0.9524**
		   • N-44 = 190/200.5 **= 0.9476**
			☐	☐	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
* 8.	Review the Average Normalized Detector Current for:	• VERIFY on Data Sheet D3, Average Normalized Detector Current for (Step F.2.e): Upper detectors: 0.9285+ 0.9538 + 0.9576 + 0.9467 = 3.7866/4 = **0.9467 *(0.9602)*** Lower detectors: 0.9751 + 0.9588 + 0.9524 + 0.9476 = 3.8289/4 = **0.9585**	☐	☐	___
* 9.	Review Quadrant Power Tilt Ratio **N41 Calculation is the critical portion of this step.**	• VERIFY on Data Sheet D3, the Quadrant Power Tilt Ratio (Step F.2.f): Upper Detector Current • N-41 = **0.9285 / 0.9467 = 0.9808 *(1.023)*** • N-42 = **0.9538 / 0.9467 = 1.0075 *(0.9933)*** • N-43 = **0.9576 / 0.9467 = 1.0115 *(0.9973)*** • N-44 = **0.9467 / 0.9467 = 1.0000 *(0.9859)*** Lower Detector Current • N-41 = **0.9751 / 0.9585 = 1.0173** • N-42 = **0.9588 / 0.9585 = 1.0003** • N-43 = **0.9524 / 0.9585 = 0.9936** • N-44 = **0.9476 / 0.9585 = 0.9886**	☐	☐	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
* 10.	DETERMINE Quadrant Power Tilt Ratio requirements are not met	• DETERMINE Quadrant Power Tilt Ratio has exceeded 1.02 (*1.0232*) and documents on cue sheet	☐	☐	___
* 11.	DETERMINE Acceptance criteria	• DETERMINE Acceptance criteria is not met and document on cue sheet	☐	☐	___
* 12.	DETERMINE LCO requirement	• DETERMINE LCO 3.2.4 QUADRANT POWER RANGE TILT RATIO (QPTR) is required	☐	☐	___
CUE	*This 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: Review a QPTR Calculation for Acceptance Criteria

JPM Number: RA-1-04-1 Revision Number: 0

Task Number and Title: 8E.AM-123 Review surveillances to ensure compliance with Tech Spec and Non-Tech Spec requirements

Task Standard: The candidate will review the completed QPTR 1BOSR 2.4.1-1 using the provided IM DVM data and document on Cue sheet. The candidate will use the completed calculation and determine an error in the QPTR at step F.2.e. The candidate will determine that N41 is above the acceptance criteria of 1.02. The candidate will determine that the surveillance does not meet the acceptance criteria and determine that entry into Tech Spec 3.2.4 QUADRANT POWER RANGE TILT RATIO (QPTR) is required.

K/A Number and Importance: G2.1.7 (4.7)

Suggested Testing Environment: Classroom

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

Reference(s):
Procedure: 1BOSR 2.4.1-1 ___ Revision: 16 ___
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____

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

Testing Method: ☐ Simulate ☒ Perform

Estimated Time to Complete: 20 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ 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 Unit Supervisor

Unit 1 is in Mode 1, 100% power, steady state

The Plant Process Computer has been inoperable for the last 30 minutes

PDMS is inoperable

The Unit NSO has just completed 1BOSR 2.4.1-1, UNIT ONE QUADRANT POWER TILT RATIO CALCULATION using the IM DVM data to satisfy the weekly surveillance frequency.

All NI channels are OPERABLE.

The Shift Manager has given his permission and the cover sheet has been signed

Indicated power readings: N41=99.8%, N42=99.8%, N43=99.9%, N44=99.9%

DVM Data:

QA#: RT25689   Cal Date: 10/16/21

Upper Detector A N41: 0.197	Lower Detector B N41: 0.196
Upper Detector A N42: 0.190	Lower Detector B N42: 0.193
Upper Detector A N43: 0.192	Lower Detector B N43: 0.190
Upper Detector A N44: 0.192	Lower Detector B N44: 0.190

INITIATING CUE

Review the completed 1BOSR 2.4.1-1 UNIT ONE QUADRANT POWER TILT RATIO CALCULATION surveillance to ensure correct completion and verify acceptance criteria. Document on the cue sheet

Acceptance Criteria met: Y   N

LCO Entry required: Y   N

LCO (N/A if entry not required): _____

Job Performance Measure

Ensure Minimum Shift Staffing

JPM Number: ___SA-1-06-2___

Revision Number: _____02_____

Date: ___6/15/21___

Developed By: _____Barry Mingus_____ / _____ ___5/3/21___
                        Instructor: Print / Sign   Date

Reviewed By: _____Benjamin Reyes_____ / _____ ___6/10/21___
                        SME or Instructor: Print / Sign   Date

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

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

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

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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.
   <u>BR</u>

2. Knowledge and Abilities (K/A) references are included.
   <u>BR</u>

3. Performance location specified. (in-plant, control room, simulator, or other)
   <u>BR</u>

4. Initial setup conditions are identified.
   <u>BR</u>

5. Initiating cue (and terminating cue if required) are properly identified.
   <u>BR</u>

6. Task standards identified and verified by instructor or SME review.
   <u>BR</u>

7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
   <u>BR</u>

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.
   <u>BR</u>

9. Verify the procedure(s) referenced by this JPM reflects the current revision:
   Procedure: <u>BAP 320-1</u>   Revision: <u>24</u>
   Procedure: <u>SY-AA-102-201</u>   Revision: <u>13</u>
   Procedure: <u>LS-AA-119</u>   Revision: <u>15</u>
   Procedure: _____   Revision: _____

10. Verify cues both verbal and visual are free of conflict.
    <u>BR</u>

11. Verify performance time is accurate.
    <u>BR</u>

12. If the JPM cannot be performed as written with proper responses, then revise the JPM.
    <u>N/A</u>

13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below:
    <u>BR</u>

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

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

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

Revision Record (Summary)

Revision #	Summary
00	This JPM was developed for the 2017 ILT NRC Exam
01	Updated procure reference SY-AA-102-201, Call-Outs for Unscheduled Work to revision 11, no effect on elements and standards. Updated critical steps based on review.
02	Updated to current template TQ-AA-150-J020 and current procedure revs. Modified the JPM to be performed in a classroom setting.

SETUP INSTRUCTIONS

1. This is an Administrative JPM that may be performed in any setting where the necessary procedures and support information can be provided.

2. Provide current revisions of the following for use for the JPM:

   - Tech Spec 5.2, Organization
   - BAP 320-1, Shift Staffing
   - BAP 320-1T1, Tech Spec/E-Plan/Fire Brigade/Safe Shutdown/Flex Assignments
   - LS-AA-119, Fatigue Management and Work Hour Limits
   - SY-AA-102-201, Call-Outs for Unscheduled Work
   - Completed copy of SY-AA-102-201 Attachment 1.

3. This completes the setup for this JPM.

INITIAL CONDITIONS

- You are the Shift Manager.
    - It is 2300 on a Saturday
    - Unit 1 and Unit 2 are both at 100% power.
- The Shift Technical Advisor (STA) receives a phone call from the State Police stating that his spouse has been in a car accident and is being transported by ambulance to the Swedish American Hospital in Rockford.
- The STA notifies you that he needs to immediately leave the site to be with his spouse at the hospital.
- There are no other STA qualified supervisors on shift.

All other positions are fully staffed. The WEC has performed a call out, and documented the results on SY-AA-102-201 Attachment 1.

eSOMs is currently unavailable due to a scheduled update and will be for another 4 hours.

None of the STA applicants have worked overtime in last 5 weeks.

INITIATING CUE

As the Shift Manager, determine the STA Staffing requirements to allow the STA to respond immediately to his personal emergency:

- Determine the time constraints involved

- Determine which STA(s) meets the staffing requirements for call out within the time constraints

Record your results on Cue Sheet 2.

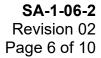Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps. **1 - 5**

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.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

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

Task Standard:

Candidate will determine shift staffing requirements are not met. The candidate will then review the available personnel from the callout and determine that individuals 1, 2, and 4 are not capable of currently filling the position and that individual 3 is capable of filling the position and is required to report to the site within 2 hours.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
* 01	Determines STA staffing requirements Refers to: ○ BAP 320-1 ○ Tech Spec 5.2	• Determines that STA position must be staffed in a time not to exceed 2 hours. (Document on cue sheet 2)	☐	☐	___
NOTE: The following steps may be performed in any order. They must be documented on the cue sheet.					
* 02	Determines Caryn Johnson is unavailable for unscheduled relief. (will not arrive in time)	Marks N for Caryn Johnson • Documents on Cue Sheet 2	☐	☐	___
* 03	Determines Charles Daniels is not available to work due to WHR violation (more than 72 hours in a 7-day period)	Marks N for Charles Daniels • Documents on Cue Sheet 2	☐	☐	___
* 04	Determines Edward Fox is available to be available to report to work.	• Marks Y for Edward Fox directed to report to work • Documents on Cue Sheet 2	☐	☐	___
* 05	Determines George Harris is NOT fit for duty and will NOT be asked to come in.	Marks N for the George Harris • Documents on Cue Sheet 2	☐	☐	___
CUE	**This 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: Ensure Minimum Shift Staffing

JPM Number: SA-1-06-2   Revision Number: 02

Task Number and Title: 8E.AM-029, Ensure Minimum Shift Staffing and Authorize Additional Shift Staffing as Necessary

Task Standard: Candidate will determine shift staffing requirements are not met. The candidate will then review the available personnel from the callout and determine that individuals 1, 2, and 4 are not capable of currently filling the position and that individual 3 is capable of filling the position and is required to report to the site within 2 hours.

K/A Number and Importance: 2.1.5, Importance 3.9

Suggested Testing Environment: Classroom

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

Reference(s):

Procedure:	BAP 320-1	Revision:	24
Procedure:	SY-AA-102-201	Revision:	13
Procedure:	LS-AA-119	Revision:	15
Procedure:	TS 5.2	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.
  - It is 2300 on a Saturday
  - Unit 1 and Unit 2 are both at 100% power.
- The Shift Technical Advisor (STA) receives a phone call from the State Police stating that his spouse has been in a car accident and is being transported by ambulance to the Swedish American Hospital in Rockford.
- The STA notifies you that he needs to immediately leave the site to be with his spouse at the hospital.
- There are no other STA qualified supervisors on shift.

All other positions are fully staffed. The WEC has performed a call out, and documented the results on SY-AA-102-201 Attachment 1.

eSOMs is currently unavailable due to a scheduled update and will be for another 4 hours.

None of the STA supervisors called have worked overtime in last 5 weeks.

INITIATING CUE

As the Shift Manager, determine the STA Staffing requirements to allow the STA to respond immediately to his personal emergency:

- Determine the time constraints involved

- Determine which STA(s) meets the staffing requirements for call out within the time constraints

Record your results on Cue Sheet 2.

· ·

Shift Technical Advisor Qualified Individuals

SRO responses to call out questions:

STA Contacted	#1- Caryn Johnson	#2- Charles Daniels	#3 – Edward Fox	#4 - George Harris
Have you consumed Alcohol in the Past 5 Hours?	No	No	No	Yes, currently consuming.
Are you fit for Duty?	Yes	Yes	Yes	No
By working this call-out, will you violate any of the Work Hour Restrictions?	I completed my Day-shift rotation on Tuesday.	I have worked the last six 12-hour night shifts	I am in the middle of my Seven-off period.	I completed my Training week on Friday.
What is your estimated arrival time?	I can arrive on site at 0200.	I can arrive on site at 2355.	I can arrive on site at 0030.	If needed, I can arrive on site at 0600.
Time requirement: STA must be staffed within _____				
Eligible to be called in for the unscheduled relief? Circle Y/N	__Y__ __N__	__Y__ __N__	__Y__ __N__	__Y__ __N__

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

Shift Technical Advisor Qualified Individuals

SRO responses to call out questions:

STA Contacted	#1- Caryn Johnson	#2- Charles Daniels	#3 – Edward Fox	#4 - George Harris
Have you consumed Alcohol in the Past 5 Hours?	No	No	No	Yes, currently consuming.
Are you fit for Duty?	Yes	Yes	Yes	No
By working this call-out, will you violate any of the Work Hour Restrictions?	I completed my Day-shift rotation on Tuesday.	I have worked the last six 12-hour night shifts	I am in the middle of my Seven-off period.	I completed my Training week on Friday.
What is your estimated arrival time?	I can arrive on site at 0200.	I can arrive on site at 2355.	I can arrive on site at 0030.	If needed, I can arrive on site at 0600.
Time requirement: STA must be staffed within ____ (2 hours) ____				
Eligible to be called in for the unscheduled relief?	__Y__ (N)	__Y__ (N)	(Y) __N__	__Y__ (N)

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

Exelon Generation.

Job Performance Measure

INITIATE A LCOAR
(1BOL 7.2)

JPM Number: <u>SA-2-05-1</u>

Revision Number: <u>01</u>

Date: <u>6/9/21</u>

Developed By: <u>Benjamin Reyes</u> / <u>_____</u> <u>6/9/21</u>
  Instructor: Print / Sign Date

Reviewed By: <u>Barry Mingus</u> / <u>_____</u> <u>6/11/21</u>
  SME or Instructor: Print / Sign Date

Reviewed By: <u>Peter Leonhardt</u> / <u>_____</u>
  Operations Representative: Print / Sign Date

Approved By: <u>Brian Lewin</u> / <u>_____</u>
  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:		Revision:	
Procedure:	BAP 1400-6	Revision:	38
Procedure:	1BOL 7.2	Revision:	7
Procedure:	BAR 1-1-E5	Revision:	6
Procedure:	1BOSR MS-W1	Revision:	12
Procedure:	BOP MS-5	Revision:	23
Procedure:	TS 3.7.2 and Bases	Revision:	212 /93
Procedure:	1BOL 3.2	Revision:	12

10. Verify cues both verbal and visual are free of conflict. _____

11. Verify performance time is accurate. _____

12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____

13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

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

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

_____ / _____

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

Revision Record (Summary)

Revision #	Summary
00	Modified SA3 Rev. 0 - Changed component that is in LCOAR
01	Update JPM format to comply with current form revision. This JPM was previously designated as N008 in the exam bank. JPM number format revised to CR-2-05-1 in order to better track JPMs as opposed to changing letter designations based on where placed sequentially on ES-301 forms.

SETUP INSTRUCTIONS

1. This is an Administrative JPM that may be performed in any setting where the necessary procedures and support information can be provided.

2. Verify current revisions of the following procedures for place keeping and documentation is available for JPM performance:

    *   BAP 1400-6
    *   Tech Spec 3.7.2 and Bases
    *   1BOL 7.2
    *   BAR 1-1-E5
    *   1BOSR MS-W1
    *   BOP MS-5
    *   1BOL 3.2

3. Ensure a calculator is available.

4. This completes the setup for this JPM.

INITIAL CONDITIONS

- Unit 1 is in Mode 1.
- You are the Unit 1 Supervisor.
- MSIV 1D HYD/PNEU Press Hi/Lo Annunciator (1-1-E5) is LIT.
- 5 minutes ago the TR Operator reported that the 1D MSIV Standby Nitrogen Pressure is 4750 psig. 1D MSIV Active Accumulator Nitrogen Pressure is 4900 psig.
- IR 1234567 has been written to document the issue.
- There are currently no LCOARs or DELs on Unit 1.
- There are no Risk Informed Completion Times in effect.

INITIATING CUE

- Evaluate condition and Initiate the LCOAR paperwork as necessary.

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. **2, 4, 5, and 13.**

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:
The candidate will identify the conditions exist to enter 1BOL 7.2 due to the low pneumatic pressure. The candidate will fill in 1BOL 7.2 to identify the reason for the entry, the correct condition, verify no loss of Safety Function, and sign in the correct condition (A). When complete, the candidate will submit an initiated LCOAR for 1BOL 7.2 that matches SA-2-05-1 Answer Key.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	The LCO form may be filled in any order. Different sections require the candidate to move back and forth in form.				
NOTE:	Provide the candidate with a copy of the procedures and materials listed in the reference materials.				
1.	Refer to BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR)	• LOCATE and OPEN BAP 1400-6	☐	☐	___
*2	Evaluate required LCOAR entry ° T.S 3.7.2 and/or Bases ° 1BOL 7.2 ° BAR 1-1-E5 ° 1BOSR MS-W1 ° BOP MS-5 ° 1BOL 3.2	• Identify that 1BOL 7.2 LCOAR entry is required.	☐	☐	___
3	Refer to 1BOL 7.2, LCOAR Main Steam Isolation Valves (MSIVs) – Tech Spec LCO # 3.7.2	• LOCATE and OPEN 1BOL 7.2	☐	☐	___
NOTE:	If the candidate does not have a device to determine the time and a clock is not readily available, it is acceptable to provide the candidate with the current time if they so inquire.				

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: Initiating event documentation can be similar wording. Not required to be verbatim.					
*4	Section A of 1BOL 7.2	ENTER into Section A: • Time/Date: Today/5 minutes ago • By: Candidate's name • Title: Unit Supervisor (US) or equivalent • Present mode: 1 • Initiating event: 1MS001D Standby Pneumatic Pressure <4800 psig. • Condition: A	☐	☐	___
*5	Safety function determination	PERFORM SFD • Indicate No in Section C • Sign Coversheet • Indicate NO on coversheet for invalidating current SFD	☐	☐	___
NOTE: Acceptable if left Blank or may be place kept.					
6	LCO 3.0.6 Evaluation	• Place keep OR Leave Blank	☐	☐	___
7	Risk Informed Completion Time (RICT) Evaluation	• Check "No" box	☐	☐	___
CUE	If asked, **there are no RICT actions on U1 from any U2 LCOs.**				
8	Update DEL	• Check "N/A" box	☐	☐	___
9	Determine Planned or Unplanned	• Mark UNPLANNED on coversheet	☐	☐	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: Candidate may inform SM of entry at this time, however, the SM Notified and time/date is typically completed after Peer Check received by another SRO.					
NOTE: IR# will be recorded here.					
10	Related WR/WO block	• List IR # 1234567	☐	☐	___
NOTE: Acceptable if left blank.					
11	Fill in Related Clearance Orders	• N/A OR Leave Blank	☐	☐	___
12	Was an IR written?	• Check "Yes" box	☐	☐	___
*13	LCOAR TABLE of 1BOL 7.2	• COMPLETE LCOAR Table: ○ CIRCLE Condition A • ENTER notification Time/Date <u>AND</u> sign Condition A	☐	☐	___
CUE	**This JPM is completed.**				

JPM Stop Time: _____

• •

JPM SUMMARY

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

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

JPM Title: Initiate a LCOAR

JPM Number: SA-2-05-1   Revision Number: 01

Task Number and Title: 8E.TS-007 ENSURE compliance with all Tech Spec Action Statements

Task Standard: The candidate will identify the conditions exist to enter 1BOL 7.2 due to the low pneumatic pressure. The candidate will fill in 1BOL 7.2 to identify the reason for the entry, the correct condition, verify no loss of Safety Function, and sign in the correct condition (A). When complete, the candidate will submit an initiated LCOAR for 1BOL 7.2 that matches SA-2-05-1 Answer Key.

K/A Number and Importance: 2.2.23 Importance 4.6

Suggested Testing Environment: Classroom

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

Reference(s):

Procedure:	BAP 1400-6	Revision:	38
Procedure:	1BOL 7.2	Revision:	7
Procedure:	BAR 1-1-E5	Revision:	6
Procedure:	1BOSR MS-W1	Revision:	12
Procedure:	BOP MS-5	Revision:	23
Procedure:	TS 3.7.2 and Bases	Revision:	212 / 93
Procedure:	1BOL 3.2	Revision:	12

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

- Unit 1 is in Mode 1.
- You are the Unit 1 Supervisor.
- MSIV 1D HYD/PNEU Press Hi/Lo Annunciator (1-1-E5) is LIT.
- 5 minutes ago the TR Operator reports that the 1D MSIV Standby Nitrogen Pressure is 4750 psig. 1D MSIV Active Accumulator Nitrogen Pressure is 4900 psig.
- IR 1234567 has been written to document the issue.
- There are currently no LCOARs or DELs on Unit 1.
- There are no Risk Informed Completion Times in effect.

INITIATING CUE

- Evaluate condition and Initiate the LCOAR paperwork as necessary

FILE LOCATION: 2.05.0500

LCOAR
MAIN STEAM ISOLATION VALVES (MSIVs)
TECH SPEC LCO # 3.7.2

A. NOTIFICATION

For a surveillance not performed within its specified frequency, complete page 4 prior to declaring the applicable function(s) inoperable.

TIME/DATE: Start time - 5 minutes / Today BY Candidate		TITLE: SRO
PRESENT MODE: 1	APPLICABLE MODE(s): **1, 2, and 3 ****	
INITIATING EVENT(s): 1MS001D Standby Pneumatic Pressure < 4800 psig (or similar statement)		
	CONDITION(S) A	Pg(s) 5
SAFETY FUNCTION DETERMINATION (SFD) (Pg. 2) PERFORMED BY: Candidate		
DOES THIS INOPERABILITY INVALIDATE ANY CURRENT SFD? ☐ YES ☒ NO		
DEL UPDATED FOR LCOAR ENTRIES PRECLUDED PER LCO 3.0.6 (Pg.3) By:_____ OR ☒ N/A		
NAME OF SM NOTIFIED: Matthew Winter ☐ PLANNED		
TIME/DATE: Current time / Current Date ☒ UNPLANNED		
WAS AN IR WRITTEN? RELATED WO/WR(s): RELATED CLEARANCE ORDER(s):		
☒ YES 1234567		
☐ NO		
If NO, Reason:		
LCO 3.0.3: **APPLICABLE**	MODE Change Allowed Per LCO 3.0.4: *****	
Separate Condition entry allowed: **VARIES BY CONDITION**		

**** Except when all MSIVs are closed in Modes 2 or 3.**
*****Mode change NOT allowed into Mode 1. Mode change ALLOWED into Modes 2 and 3.**

B. ACTIONS

1. IF a subsequent train, subsystem, component, or variable applicable to a CONDITION currently in effect becomes inoperable, THEN complete 1BOL 0.0 if applicable and attach it to this BOL.
2. IF present plant conditions are degraded beyond those conditions for which the Tech Spec provides, THEN INITIATE 1BOL 0.3.
3. COMPLETE, as required, the LCOAR Table per BAP 1400-6, checking all conditions to verify ALL applicable conditions are entered and followed.
4. Other related and potentially affected LCOAR procedures include:
    a. 1BOL 3.2, Engineered Safety Feature Actuation System (ESFAS) Instrumentation.
    b. 1BOL 3.y, Engineered Safety Feature Actuation System (ESFAS) Instrumentation.

C.   LOSS OF SAFETY FUNCTION (LOSF) EVALUATION:

Is there <u>any</u> inoperable or degraded SUPPORT or SUPPORTED equipment on the opposite/redundant train that, when coupled with this inoperable equipment, might result in a complete loss of a tech spec required safety function?

[X]   No -   No LOSF exists. No further evaluation is necessary. Proceed to D.

☐   Yes -   A LOSF may exist. Using the SFDP and BAP 1400-6, evaluate which of the following conditions apply:

   ☐   a.   The SSC is part of an LCO with multiple subsystems and the LCO specified function is intact. No LOSF exists.

   ☐   b.   The SSC is credited in the Safety Analysis Report (SAR) and the SAR operability criteria is/are met. No LOSF exists.

   ☐   c.   A LOSF exists. Perform the Required Actions of the SSC LCO in which the LOSF exists for the specific Condition(s) that apply.

D.   LCO 3.0.6 - SUPPORTED SYSTEM LCOAR ENTRY EVALUATION WITH NO LOSF.

Perform this step only if no LOSF exists and it is desired to preclude entry into SUPPORTED SYSTEM LCOAR as allowed by LCO 3.0.6. A LOSF does not exist if the redundant train of the inoperable SUPPORTED SYSTEM(S) equipment is OPERABLE.

1.   Rules of Usage

   a.   With a single SUPPORT SYSTEM inoperable, the affected SUPPORTED SYSTEM(s) LCOAR entry(s) is not required to be entered unless directed by the SUPPORT SYSTEM Required Actions.

   b.   In the event additional SUPPORT SYSTEM(s) become inoperable, refer to TRM Appendix O, Safety Function Determination Program.

D.   2. SUPPORT SYSTEM to SUPPORTED SYSTEM Tech Spec cross reference as found in the SFDP. Complete the following table(s) for all inoperable SUPPORTED SYSTEMS for which LCOAR entry will not be made per the allowances of LCO 3.0.6.

Table 1: Supported System delayed LCOAR entry Table:

SUPPORT SYSTEM: **LCO 3.7.2**   **Main Steam Isolation Valves (MSIVs)**

SUPPORTED SYSTEM TS NUMBER	SUPPORTED SYSTEM	INOPERABLE TIME / DATE	Enter LCOAR TIME / DATE [a]
	None Pre-identified		

Table 2:   ANY/All other SUPPORTED SYSTEMS which are inoperable as a result of the SUPPORTED SYSTEM(S) identified in table 1 above.

SUPPORTED SYSTEM TS NUMBER	2nd / 3rd LEVEL SUPPORTED SYSTEM	INOPERABLE TIME / DATE	Enter LCOAR TIME / DATE [a]
	None Pre-identified		

(a)   Only applicable with multiple SUPPORT SYSTEMs inoperable.

E.   RISK INFORMED COMPLETION TIME (RICT) EVALUATION:

Is there any inoperable equipment that has a RICT currently in effect.

[X]   No -   No RICT Update is required.

☐   Yes -   RICT is in effect on a different LCO or this LCO calculate new completion time.

LCOAR TABLE
MAIN STEAM ISOLATION VALVES (MSIVs)

TECH SPEC SR 3.0.3
LCO compliance with a missed Surveillance.

CONDITION	REQUIRED ACTION	COMPLETION TIME
Z. Discovery of a surveillance not performed within its specified frequency. _____/_____ TIME DATE _____ SRO	Z.1.1 PERFORM the surveillance within EITHER 24 hrs OR the surveillance frequency, whichever is greater. AND Z.1.2 -------------NOTE------------------ Only applicable for surveillance to be delayed > 24 hours. -------------------------------------- VERIFY COMPLETE a risk evaluation which indicates a risk impact that is manageable. OR Z.2 DECLARE the applicable function inoperable, complete Section A of this and/or any applicable BOL, and enter the appropriate conditions. (Note 1)	SR number: _____ CIRCLE completion time limit: _____24 hours_____ _____ Max Allowance SR Frequency _____/_____ _____ TIME DATE SRO _____24 hours_____ Max Allowance _____/_____ _____ TIME DATE SRO _____/_____ _____ TIME DATE SRO

Notes:

1.   This time and date should also be entered in Section A (NOTIFICATION).

LCOAR TABLE
MAIN STEAM ISOLATION VALVES (MSIVs)

TECH SPEC 3.7.2		
Pg	COND	Any Of The Following CONDITIONS: CIRCLE applicable CONDITION(S)
5	A.	One MSIV actuator train inoperable.
5	B.	Two MSIV actuator trains inoperable on different MSIVs and in different ESF Divisions.
6	C.	Two MSIV actuator trains inoperable on different MSIVs in the same ESF Division.
6	D.	Two MSIV actuator trains inoperable on the same MSIV.
6	E.	Three or more MSIV actuator trains inoperable.
6	E.	Required Action and associated Completion Time of Condition A, B, or C not met.
6	F.	One MSIV inoperable in MODE 1.
7	G.	Required Action and associated Completion Time of Condition F not met.
7	H.	One or more MSIV inoperable in MODE 2 or 3 when any MSIV is not closed.
7	I.	Required Action and associated Completion Time of Condition H not met.

CONDITION	REQUIRED ACTION	COMPLETION TIME
(A.) One MSIV actuator train inoperable. (Current) / (Current) TIME DATE Candidate SRO	A.1 Restore MSIV actuator train to OPERABLE status.	7 days OR In accordance with The Risk Informed Completion Time Program / TIME DATE SRO
B. Two MSIV actuator trains inoperable on different MSIVs and in different ESF Divisions. / TIME DATE SRO	B.1 Restore one MSIV actuator train to OPERABLE status.	72 hours OR In accordance with The Risk Informed Completion Time Program / TIME DATE SRO

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. Two MSIV actuator trains inoperable on different MSIVs in the same ESF Division. _____/_____ TIME DATE _____ SRO	C.1 Restore one MSIV actuator train to OPERABLE status.	24 hours /_____ TIME DATE SRO
D. Two MSIV actuator trains inoperable on the same MSIV. _____/_____ TIME DATE _____ SRO	D.1 Declare the affected MSIV inoperable.	Immediately /_____ _____ TIME DATE SRO
E. Three or more MSIV actuator trains inoperable. OR Required Action and associated Completion Time of Condition A, B, or C not met. _____/_____ TIME DATE _____ SRO	E.1 Declare each affected MSIV inoperable.	Immediately /_____ TIME DATE SRO
F. One MSIV inoperable in MODE 1. (Note 3) _____/_____ TIME DATE _____ SRO	F.1 Restore MSIV to OPERABLE status.	8 hours OR In accordance with The Risk Informed Completion Time Program /_____ TIME DATE SRO

Notes:
3.   1BOL 3.y addresses individual MSIV C/S failures. The MSIV test switch not in normal renders the C/S unable to close the valve.

CONDITION		REQUIRED ACTION		COMPLETION TIME
G.	Required Action and associated Completion Time of Condition F not met. _____ / _____ TIME DATE _____	G.1	Be in MODE 2. (Note 7)	6 hours (Note 4) / _____ TIME DATE SRO
H.	------------NOTE------------- Separate Condition entry is allowed for each MSIV ------------------------------- One or more MSIV inoperable in MODE 2 or 3. (Note 3 & 5) _____ / _____ TIME DATE _____ SRO	H.1 AND H.2	Close MSIV. Verify MSIV is closed. (Note 6)	8 hours / _____ TIME DATE SRO Once per 7 days _n/a_ / _n/a_ _n/a_ TIME DATE SRO
I.	Required Action and associated Completion Time of Condition H not met. _____ / _____ TIME DATE _____ SRO	I.1 AND I.2	Be in MODE 3. (Note 7) Be in MODE 4.	6 hours (Note 4) / _____ TIME DATE SRO 12 hours (Note 4) / _____ _____ TIME DATE SRO

Notes:
3.   2BOL 3.y addresses individual MSIV C/S failures. The MSIV test switch not in normal renders the C/S unable to close the valve.
4.   Failure to meet this completion time may require E-Plan implementation.
5.   If more than 1 MSIV is inoperable in Modes 2 or 3, a LCOAR (Condition H) must be entered for each inoperable MSIV.
6.   Completion Time, Date and SRO initials are recorded on Attachment A.
7.   Initiation of a plant shutdown required by Tech Specs is reportable; refer to the Reportability Manual. Completion of a plant shutdown required by Tech Specs is reportable; refer to the Reportability Manual.

E.   RESTORATION

1.   An SRO shall determine the applicable surveillances and/or other actions required to demonstrate LCO restoration and LIST and/or MARK those that apply:

a.   For the Initiating Event(s) in Section A (NOTIFICATION) of this LCOAR

☐   1BOSR 7.2.1-1 _____

☐   1BOSR 7.2.1-2

☐   _____

☐   _____

☐   _____

☐   _____

☐   _____

☐

TIME/DATE when these requirements are met ____ / _____   SRO _____

b.   For the Initiating Event(s)   List the component, etc. from
in Section A (NOTIFICATION)   line B.2 of the related
of a related 1BOL 0.0.   1BOL 0.0.

_____ FOR _____

☐   _____ FOR _____

☐   _____ FOR _____

If more than 1 associated 1BOL 0.0 exists, use comments section to identify when the requirements are met for each.

TIME/DATE when these requirements are met ____ / _____   SRO _____

2.   Comments: _____

_____

_____

3.   Once all of the above requirements have been satisfactorily completed (with SM concurrence if appropriate), RECORD the Time and Date the LCO is met. TERMINATE the Action Requirements excluding any SPECIAL REPORT or SPECIAL ACTIONS and RETURN the affected Equipment/Unit to desired status.

SRO (NOT Duty S.M.):_____   TIME/DATE:_____ / _____

Remarks and/or additional requirements: _____

_____

DUTY SHIFT MANAGER:_____   TIME/DATE:_____ / _____

ATTACHMENT A

MSIV POSITION VERIFICATION LOG

UNIT #_____1_____

MSIV <u>1A, 1B, 1C, 1D</u>
    (circle one)

INITIAL PERFORMANCE DUE:_____/_____
                            TIME / DATE

INITIAL PERFORMANCE COMPLETED:_____/_____   _____
                                     TIME / DATE   SRO

SUBSEQUENT DUE EVERY:_____7_____DAYS

Next Due TIME/DATE	Checked TIME/DATE	Checked Closed By	Results Acceptable for Continued Ops (Note 8) YES/NO	SRO Review SRO
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___	___/___	___/___	☐ Y ☐ N	
___/___ TIME/DATE	___/___ TIME/DATE	___/___	☐ Y ☐ N	

ATTACH ADDITIONAL COPIES OF THIS PAGE AS NECESSARY.

Notes:
8.   Results are considered acceptable if the inoperable MSIV is in the CLOSED position.

Job Performance Measure

Screen Event for Reportability - Radiological

JPM Number: <u>SA-3-04-0</u>

Revision Number: <u>   00   </u>

Date: <u>   </u>

Developed By: <u>   Benjamin Reyes   </u> / <u>   </u>   <u>7/5/21</u>
<div align="center">Instructor: Print / Sign</div> <div align="right">Date</div>

Reviewed By: <u>   Barry Mingus   </u> / <u>   </u>   <u>7/6/21</u>
<div align="center">SME or Instructor: Print / Sign</div> <div align="right">Date</div>

Reviewed By: <u>   Peter Leonhardt   </u> / <u>   </u>
<div align="center">Operations Representative: Print / Sign</div> <div align="right">Date</div>

Approved By: <u>   Brian Lewin   </u> / <u>   </u>
<div align="center">Training Department: Print / Sign</div> <div align="right">Date</div>

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: Reportability Manual   Revision: _____
   Procedure: LS-AA-1120   Revision: 21
   Procedure: LS-AA-1020   Revision: 31
   Procedure: LS-AA-1110   Revision: 30

10. Verify cues both verbal and visual are free of conflict.

11. Verify performance time is accurate.

12. If the JPM cannot be performed as written with proper responses, then revise the JPM.

13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below:

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

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

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

Revision Record (Summary)

Revision #	Summary
00	Modified S005 rev 6 'Screen Event for Reportability – Medical' to be 'Screen Event for Reportability – Radiological'. Applied new template TQ-AA-150-J020.

SETUP INSTRUCTIONS

1. This is an administrative JPM that may be performed in any setting where the necessary procedures and support information can be provided.

2. Verify current revisions of the following procedures for place keeping and documentation is available for JPM performance:

    •   Reportability Manual

    •   LS-AA-1120 Rev 21 RADIATION REPORTABILITY EVENT SECTION

    •   LS-AA-1020 Rev 31 REPORTABILITY TABLES AND DECISION TREES

    •   LS-AA-1110 Rev 30 SAFETY REPORTABILITY EVENT SECTION

3. This completes the setup for this JPM.

Exelon Generation

INITIAL CONDITIONS

- You are the Unit Supervisor.

- The unit is in Mode 1.

- Radiation Protection has just reported that an engineer has received an estimated TEDE dose of 9 Rem.

- No media release or statement is planned at this time.

INITIATING CUE

- The SM asks you to screen the event for Federal reportability requirements.

- An E-Plan evaluation is NOT required.

Reportability Determination(s): _____

Required time(s) for notification:_____

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. **3 & 4**

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:

The candidate will review the information provided in the cue and screen the event for reportability. The candidate will reference the Reportability Manual to determine that there are no reportability events from the Safety category and determine that RAD 1.5 is applicable for notification within 30 day reportability in accordance with 10 CFR 20.2203(a).

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1.	Refer to Exelon Reportability Manual	OPEN Exelon Reportability Manual.	☐	☐	___
NOTE:	EAL classification is not required, per the cue. Candidate may confirm or review EALs.				
2	Determine SAF conditions do NOT apply	• DETERMINE that there are no SAF reportable conditions	☐	☐	___
NOTE:	Evaluator discretion shall be used if other event reportability determinations are deemed to be reasonable. RAD 3.3 also applies, but is for State Notification, and, therefore, not required to satisfactorily complete the task.				
*3	Screen event for reportability per LS-AA-1120 RADIATION (RAD)	• Determine reportable events **RAD 1.5**	☐	☐	___
*4	Determine maximum time for notification	• Determine required **notification within 30 days**	☐	☐	___
CUE	**This JPM is Complete**				

JPM Stop Time: _____

• •

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

JPM SUMMARY

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

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

JPM Title: Screen Event for Reportability - Radiological

JPM Number: SA-3-04-0 Revision Number: 0

Task Number and Title: 8E.AM-102 Screen Reportable or Significant Events for Reportablility

Task Standard: The candidate will review the information provided in the cue and screen the event for reportability. The candidate will reference the Reportability Manual to determine that there are no reportability events from the Safety category and determine that RAD 1.5 is applicable for notification within 30 day reportability in accordance with 10 CFR 20.2203(a).

K/A Number and Importance: 2.3.4 Importance 3.7

Suggested Testing Environment: Classroom

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

Reference(s):

Procedure: Reportability Manual Revision: _____
Procedure: LS-AA-1120 Revision: 21
Procedure: LS-AA-1020 Revision: 31
Procedure: LS-AA-1110 Revision: 30

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 Supervisor.

- The unit is in Mode 1.

- Radiation Protection has just reported that an engineer has received an estimated TEDE dose of 9 Rem.

- No media release or statement is planned at this time.

INITIATING CUE

- The SM asks you to screen the event for Federal reportability requirements.

- An E-Plan evaluation is NOT required.

Reportability Determination(s): _____

Required time(s) for notification: _____

Job Performance Measure

Emergency Dose Authorization

JPM Number: <u>SA-4-04-5</u>

Revision Number: <u>05</u>

Date: <u>_____</u>

Developed By: <u>Benjamin Reyes</u> / <u>_____</u> <u>6/3/21</u>
Instructor: Print / Sign   Date

Reviewed By: <u>Barry Mingus</u> / <u>_____</u> <u>6/11/21</u>
SME or Instructor: Print / Sign   Date

Reviewed By: <u>Peter Leonhardt</u> / <u>_____</u> <u>_____</u>
Operations Representative: Print / Sign   Date

Approved By: <u>Brian Lewin</u> / <u>_____</u> <u>_____</u>
Training Department: Print / Sign   Date

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

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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.   BM

2. Knowledge and Abilities (K/A) references are included.   BM

3. Performance location specified. (in-plant, control room, simulator, or other)   BM

4. Initial setup conditions are identified.   BM

5. Initiating cue (and terminating cue if required) are properly identified.   BM

6. Task standards identified and verified by instructor or SME review.   BM

7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).   BM

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.   BM

9. Verify the procedure(s) referenced by this JPM reflects the current revision:
   Procedure: EP-AA-113   Revision: 15
   Procedure: EP-AA-113-F-02   Revision: B
   Procedure: Revision:
   Procedure: Revision:

10. Verify cues both verbal and visual are free of conflict.   BM

11. Verify performance time is accurate.   BM

12. If the JPM cannot be performed as written with proper responses, then revise the JPM.   N/A

13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: BM

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

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

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

Revision Record (Summary)

Revision #	Summary
02	Applied new template TQ-JA-150-02 Rev.1 Verified/ updated KAs and TPOs to current revision Validated 03/03/13 by Bill Hochstetter and Rob Lawlor, only change was procedure rev that did not affect JPM.
03	Applied new template TQ-AA-150-J020 to JPM SA-4 on 2013 NRC Exam. Removed final non-critical step for documentation of dose when complete as JPM is for the emergency dose authorization portion. Revised procedure revision. Revised task number per VISION.
04	Clarified initiating cue and added cue that volunteer has had no previous Emergency Exposures.
05	Applied new template TQ-AA-150-J020

SETUP INSTRUCTIONS

1. This is an administrative JPM that may be performed in any setting where the necessary procedures and support information can be provided.

2. Verify clean copies and current revisions of the following procedures for place keeping and documentation is available for JPM performance:

    • EP-AA-113, PERSONNEL PROTECTIVE ACTIONS

    • EP-AA-113-F-02, AUTHORIZATION FOR EMERGENCY EXPOSURE

3. This completes the setup for this JPM.

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INITIAL CONDITIONS

A LOCA has occurred on Unit 2.

- An operator has been seriously injured in the 2A Containment Spray Pump Room.

- A rescue attempt must be made to treat the operator's life threatening injuries.

- The estimated dose to an individual attempting a rescue is approximately 50 Rem.

- You are the Emergency Director. The TSC and OSC have NOT yet been staffed.

- Joe Smith, age 45, (Employee# 123456) assigned to your shift, is a friend of the injured operator and wants to help. His current annual exposure is 100 mRem.

INITIATING CUE

As the Emergency Director, perform the actions to brief and authorize this rescue operation in accordance with EP-AA-113, Personnel Protective Actions.

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

• •

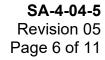**Information For Evaluator's Use:**

UNSAT requires written comments on respective step.

* Denotes critical steps: **3, 4, 5, & 6**

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.
• •

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

Task Standard:
The candidate will perform an Emergency exposure authorization IAW EP-AA-113 section 4.3. The candidate will review and determine the requirements of an Emergency Exposure Authorization in excess of 25 REM. The candidate will provide a brief of the limits and risks of the exposure to the volunteer. The candidate will provide a completed Authorization for Emergency Exposure form EP-AA-113-F-02.

STEP	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
1.	Refer to EP-AA-113	Reference EP-AA-113: • Determine emergency exposure is section 4.3	☐	☐	____
NOTE: Radiation Protection Manager Signature not required prior to approval. Per the Initial Conditions, the TSC and OSC have not been staffed.					
2.	Goes to section 4.3 Emergency Exposure Limits	Determines that: • Dose is greater than 5 Rem o Briefing Required per step 4.3.2 o Authorization required per step 4.3.3	☐	☐	____

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*3.	Initiates Authorization for Emergency Exposure	• Obtains blank EP-AA-113 F-02 • Completes the following: • Name: **Joe Smith** • Date: **"Today's Date"** • Time: **"Current Time"** • Employee ID: **123456** • Current Annual Exposure: **100 mRem** • Reason: **"Lifesaving"** • REQUESTING AUTHORIZATION TO EXCEED: **25 Rem TEDE**	☐	☐	___

NOTE: The substance of the brief is outlined in EP-AA-113, Attachment 1. There is no formal briefing sheet and none is required to be filled out. The intent of the brief in JPM Step 4 is to ensure the information listed in the JPM is transmitted to the operator performing the rescue operations.

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*4.	Conducts Briefing	• Conducts Brief using EP-AA-113, Attachment 1 • Dose-limiting recommendations for Life Saving > 25 Rem TEDE • Is only on a voluntary basis to persons fully aware of risks • Confirms Joe is a volunteer • Emergency Exposure Risks • At 50 Rem exposure, 2% of population effected by reddening of the skin, loss of appetite, nausea, fatigue or diarrhea • Approximately 5.3 per 1000 premature deaths at 25R exposure and 15 years of life may be lost	☐	☐	___
CUE	**(If asked) Joe Smith has had no previous Emergency Exposures in excess of 25 REM.**				
*5.	OBTAIN emergency worker's acknowledge that they have volunteered and understand the associated risks	• Ensures that volunteer has signed acknowledgement on EP-AA-113-F-02	☐	☐	___
CUE	**Joe Smith has reviewed and signed EP-AA-113-F-02 as of time now.**				

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STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	**Rad Protection Management has reviewed and signed EP-AA-113-F-02 as of time now.**				
*6.	Authorize proposed radiation exposure in excess of 10CFR20 limits	• Ensure completion of EP-AA-113-F-02 for Emergency Exposure • Signs for Station Emergency Director (Authorization)	☐	☐	___
CUE	**(If requested) ALARA concurrence has been authorized by phone.**				
NOTE: Candidate may or may not notify Occupational Health Services as EPA-400 dose limit has not yet been exceeded but is imminent upon described rescue efforts.					
7.	Notify Occupational Health Services.	○ Ensures that Occupational Health Services are promptly notified if EPA-400 dose limits are exceeded. ○ Notifies Station nurse or Sr. Management of requirement to notify OHS (Corporate Medical Dept.)	☐	☐	___
CUE:	**(If requested) Occupational Health Services has been contacted.**				
CUE:	**This JPM is complete.**				

JPM Stop Time:

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

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JPM SUMMARY

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

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

JPM Title: Emergency Dose Authorization

JPM Number: SA-4-04-5   Revision Number: 05

Task Number and Title: 8F.ZP-012 RESPOND to a Station Emergency as Station Director

Task Standard: The candidate will perform an Emergency exposure authorization IAW EP-AA-113 section 4.3. The candidate will review and determine the requirements of an Emergency Exposure Authorization. The candidate will provide a brief of the limits and risks of the exposure to the volunteer. The candidate will provide a completed Emergency Exposure Authorization Form.

K/A Number and Importance: 2.4.38, importance 4.4

Suggested Testing Environment: Classroom

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

Reference(s):

Procedure:	EP-AA-113	Revision:	15
Procedure:	EP-AA-113-F-02	Revision:	B
Procedure:		Revision:	
Procedure:		Revision:	

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: __18__ 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

A LOCA has occurred on Unit 2.

- An operator has been seriously injured in the 2A Containment Spray Pump Room.

- A rescue attempt must be made to treat the operator's life threatening injuries.

- The estimated dose to an individual attempting a rescue is approximately 50 Rem.

- You are the Emergency Director. The TSC and OSC have NOT yet been staffed.

- Joe Smith, age 45, (Employee# 123456) assigned to your shift, is a friend of the injured operator and wants to help. His current annual exposure is 100 mRem.

INITIATING CUE

As the Emergency Director, perform the actions to brief and authorize this rescue operation in accordance with EP-AA-113, Personnel Protective Actions.