Exelon Nuclear

Job Performance Measure

Inhibit and Prevent with a failure of the Division1 Injection Override Switch

JPM Number: <u>S-RH-29</u>

Revision Number: <u>00</u>

Date: <u>6 / 4 / 2018</u>

Developed By: <u>   C. Betken/s   </u>   <u>   8/8/18   </u>
Instructor   Date

Validated By: <u>   Pratt / Quinn   </u>   <u>   7/22/18   </u>
SME or Instructor   Date

Reviewed By: <u>   T. Messner/s   </u>   <u>   8/9/18   </u>
Training Department   Date

Approved By: <u>   J. Messina/s   </u>   <u>   8/9/18   </u>
Operations Representative   Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LPGP-PSTG-01S14   Rev: 8____
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 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. Subsequent validations, sign and date below:

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

Revision Record (Summary)

Revision 00,   Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 358 Password 0358

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.

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2. Load and run Smart Scenario S-RH-29.ssf.

3. Verify the Inhibit and Prevent Hardcard is Clean.

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.

INITIAL CONDITIONS

You are the Balance of Plant and Unit 1 has experienced an ATWS and LGA-010 has been entered.

INITIATING CUE

The Unit Supervisor has ordered you to Inhibit ADS and Prevent ECCS Injection and to inform them when complete.

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

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

    * Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
- -

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	The Examinee may obtain a copy of the "Inhibit and Prevent" Hardcard				
NOTE	The IC is a High Power ATWS and Pressure/Level will not Lower, therefore takes Pumps to OFF will not work as there is no Auto-start signal present.				
*1	PREVENT HPCS Injection: ○ OVERRIDE 1E22-C001, HPCS Pump, Off. ○ PLACE 1E22-C001, HPCS Pump, in PTL.	Examinee takes 1E22-C001 to: • PTL	___	___	___
*2	PREVENT All LPCI Injection: ○ PLACE Div 2 Inj Override Switch to ATWS • Verify the Div. 2 Red Injection Override Switch Light Illuminated. • Verify White Manual Override Light for 1E12-F042B AND 1E12-F042C Illuminated. ○ OVERRIDE 1E12-C002C, 1C RHR Pump, Off. ○ PLACE 1E12-C002C, 1C RHR Pump, in PTL. ○ OVERRIDE 1E12-C002B, 1B RHR Pump, Off. ○ PLACE 1E12-C002B, 1B RHR Pump, in PTL. ○ At 500 psig in the RPV, OVERRIDE Closed 1E12-F042B, 1B RHR LPCI Injection Valve, if desire to use 1B RHR to cool pool/containment.	Examinee prevents Div 2 LPCI: ○ PLACE Div 2 Inj Override Switch to ATWS • Verify the Div. 2 Red Injection Override Switch Light Illuminated. • Verify White Manual Override Light for 1E12-F042B AND 1E12-F042C Illuminated. OR ○ PLACE 1E12-C002C, 1C RHR Pump, in PTL. ○ PLACE 1E12-C002B, 1B RHR Pump, in PTL.	___	___	___
ALTERNATE PATH BEGINS HERE					

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	When the Div 1 Injection Override Switch is taken to the ATWS position It will fail. This will be noticed by the Red light above the switch not illuminated AND the white light above the injection valves not illuminated.				
NOTE	If the Examinee attempts to take Div 1Pump Switches to PTL instead of the Injection Override Switch, the Pump Switches will fail and the Div 1 Injection Override Switch will work. (This is not the expected course for the examinees to take)				
*3	PLACE DIV 1 Inj Override Switch to ATWS • Verify the Div. 1 Red Injection Override Switch Light Illuminated. • Verify White Manual Override light for 1E12-F042A AND 1E21-F005 Illuminated	Examinee places the Div 1 Injection Override Switch to the ATWS position and notes the Failure of the Div 1 Injection Override Switch	___	___	___
4	OVERRIDE 1E12-C002A, 1A RHR Pump, Off.	Examinee recognizes no ECCS Initiation signal is present and this method will not work.	___	___	___
*5	PLACE 1E12-C002A, 1A RHR Pump, in PTL.	Examinee takes 1E12-C002A to PTL	___	___	___
6	At 500 psig in the RPV, OVERRIDE Closed 1E12-F042A, 1A RHR LPCI Injection Valve, if desire to use 1A RHR to cool pool/containment.	Examinee recognizes pressure is not currently lowering.	___	___	___
7	OVERRIDE 1E21-C001, LPCS Pump, Off.	Examinee recognizes no ECCS Initiation signal is present and this method will not work.	___	___	___
*8	PLACE 1E21-C001, LPCS Pump, in PTL.	Examinee takes 1E21-C001 to PTL	___	___	___
*9	PLACE Div 1 ADS Inhibit switch in INHIBIT.	Examinee places the Div 1 ADS inhibit Switch to Inhibit.	___	___	___
*10	PLACE Div 2 ADS Inhibit switch in INHIBIT.	Examinee places the Div 2 ADS inhibit Switch to Inhibit.	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
11	Inform Unit Supervisor	The Examinee informs Unit Supervisor that ADS is Inhibited and ECCS is prevented.	___	___	___
CUE	As Unit Supervisor acknowledge the report. 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: 0BInhibit and Prevent with a failure of the Division1 Injection Override Switch

JPM Number: S-RH-29   Revision Number: 00

Task Number and Title: 062.00.21 Given a System Lineup and various plant conditions, predict the system response to various components failures while operating the system

K/A Number and Importance: 203000 RHR/LPCI Injection Mode A4.11 Ability to manually operate and/or monitor in the control room: Indicating lights and alarms

Suggested Testing Environment: Simulator

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

Reference(s): Plant Specific Technical Guidelines Section 14 – LGA-Related Hard Cards
LPGP-PSTG-01S14 Revision 8

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 4 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

Comments:_____

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_____

Evaluator's Name: _____ (Print)

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

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

INITIAL CONDITIONS

You are the Balance of Plant and Unit 1 has experienced an ATWS and LGA-010 has been entered.

INITIATING CUE

The Unit Supervisor has ordered you to Inhibit ADS and Prevent ECCS Injection and to inform them when complete.

Exelon Nuclear

Job Performance Measure

Perform LGA-MS-101 Hardcard

JPM Number: <u>S-MS-06</u>

Revision Number: <u>00</u>

Date: <u>6 / 4 / 2018</u>

Developed By:	<u>C. Betken/s</u>	<u>8/9/18</u>
	Instructor	Date
Validated By:	<u>Pratt / Quinn</u>	<u>7/22/18</u>
	SME or Instructor	Date
Reviewed By:	<u>T. Messner/s</u>	<u>8/9/18</u>
	Training Department	Date
Approved By:	<u>J. Messina/s</u>	<u>8/9/18</u>
	Operations Representative	Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LGA-MS-101_____ Rev: 2____
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 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. Subsequent validations, sign and date below:

_____   _____
            SME / Instructor   Date

_____   _____
            SME / Instructor   Date

_____   _____
            SME / Instructor   Date

Revision Record (Summary)

Revision 00,   Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 358 Password 0358

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.

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2. The LGA-MS-101 Hardcard is clean.

3. Verify keys 84, 85, 86, 87, 252, 253, 254, 255, and 256 are located in the cabinet.

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.

INITIAL CONDITIONS

You are an extra NSO

- Unit 1 has experienced an ATWS
- There are no indications of a Main Steam Line break

INITIATING CUE

The Unit Supervisor has ordered you to perform the LGA-MS-101 hard card and inform them when complete.

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

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

   * Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
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JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	Examinee may obtain a copy of the LGA-MS-101 Hard Card				
*1	At 1H13-P609: • Install key 253 and turn switch 1B21H-S505A to bypass CHAN A1 MSIV RPV LOW LVL ISOL BYPASS S505A. • Install key 254 and turn switch 1B21H-S505C to bypass CHAN A2 MSIV RPV LOW LVL ISOL BYPASS S505C.	Examinee installs and turns keys 253 and 254 at 1H13-P609	___	___	___
*2	At 1H13-P611: • Install key 255 and turn switch 1B21H-S505B to bypass CHAN B1 MSIV RPV LOW LVL ISOL BYPASS S505B. • Install key 256 and turn switch 1B21H-S505D to bypass CHAN B2 MSIV RPV LOW LVL ISOL BYPASS S505D.	Examinee installs and turns keys 255 and 256 at 1H13-P611	___	___	___
*3	PLACE in OPEN 1N62-F057, Off Gas Discharge To Stack.	Examinee places the 1N62-F057 control switch to OPEN	___	___	___
*4	At 1H13-P632: • Install key 84 and turn switch 1E31A-S750 to bypass • Install key 86 and turn switch 1E31A-S752 to bypass	Examinee installs and turns keys 84 and 86 at 1H13-P632	___	___	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*5	At 1H13-P642: • Install key 85 and turn switch 1E31A-S751 to bypass • Install key 87 and turn switch 1E31A-S753 to bypass	Examinee installs and turns keys 85 and 87 at 1H13-P642	___	___	___
*6	At 1PM13J, Install key 252 and turn switch 1HS-IN035, 1IN017 RPV LOW LVL ISOL BYPASS IN035.	Examinee installs and turns key 252 and turns 1HS-IN035 at 1PM13J	___	___	___
*7	At 1PM13J, Open 1IN059 and 1IN060.	Examinee opens 1IN059 and 1IN060 at 1PM13J	___	___	___
8	At 1PM13J, Place and hold 1IN017 control switch in the open position until valve indicated full open.	Examinee holds control switch until 1IN017 is full open or verify already open	___	___	___
9	Inform the Unit Supervisor	Examinee informs Unit Supervisor that LGA-MS-101 Hard Card is complete	___	___	___
CUE	As Unit Supervisor, Acknowledge the report. JPM Complete.				

JPM Stop Time: _____

JPM SUMMARY

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

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

JPM Title: 0BPerform LGA-MS-101 Hardcard

JPM Number: S-MS-06   Revision Number: 00

Task Number and Title: 432.000 Given Unit Supervisor authorization, evaluate plant conditions and Maintain a Heat Sink, IAW Station procedures.

K/A Number and Importance: 239001 A2.03 (4.0/4.2) Ability to (a) predict the impacts of the following on the MAIN AND REHEAT STEAM SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: MSIV closure

Suggested Testing Environment: Simulator

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

Reference(s): LGA-MS-101, Unit 1 Using Main Condenser as Heat Sink in ATWS, Rev 2

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 11 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

Comments: _____

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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

- Unit 1 has experienced an ATWS
- There are no indications of a Main Steam Line break

INITIATING CUE

The Unit Supervisor has ordered you to perform the LGA-MS-101 hard card and inform them when complete.

Exelon Nuclear

Job Performance Measure

Auto Transfer from MDRFP to TDRFP per LOP-RL-01

JPM Number: <u>S-RL-01</u>

Revision Number: <u>00</u>

Date: <u>6 / 4 / 2018</u>

Developed By: <u>C. Betken/s</u>   <u>8/8/18</u>
                             Instructor   Date

Validated By: <u>Pratt / Quinn</u>   <u>7/22/18</u>
                          SME or Instructor   Date

Reviewed By: <u>T. Messner/s</u>   <u>8/9/18</u>
                          Training Department   Date

Approved By: <u>J. Messina/s</u>   <u>8/10/18</u>
                        Operations Representative   Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOP-RL-01_____ Rev: 26___
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 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. Subsequent validations, sign and date below:

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

Revision Record (Summary)

Revision 00,   Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 357 Password 0357

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.

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2. Have a marked up copy of LOP-RL-01.

3. Place the DS001 on the RRFC Screen.

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.

INITIAL CONDITIONS

You are the Unit NSO on Unit 1

- 1A TDRFP is online in manual and ready for operation per LOP-FW-04
- 1B TDRFP and Both Feed Reg Valves are in Auto

INITIATING CUE

The Unit Supervisor has directed you automatically transfer from the FRV to 1A TDRFP per LOP-RL-01.

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

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

   * Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
- -

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	When the examinee has acknowledged their imitating cue, hand them a copy of LOP-RL-01				
1	Verify FRV is in AUTO control. The LFFRV may also be in AUTO.	Examinee verifies that both FRVs are in auto	___	___	___
2	Verify MDRFP min flow valve M/A station is in AUTO.	Examinee verifies that the MDRFP Min Flow Valve is in Auto	___	___	___
*3	Verify Oncoming TDRFP min flow valve M/A Station is in AUTO.	Examinee places the TDRFP Min Flow Valve in Auto	___	___	___
4	Verify Oncoming TDRFP is ready for operation per LOP-FW-04.	Examinee verifies the 1A TDRFP is ready per LOP-FW-04 per Initial Conditions	___	___	___
*5	At 1DS001 Operator Station RWLC Process Overview screen	Examinee Navigates to the RWLC Process Overview Screen at the DS001	___	___	___
*6	SELECT appropriate transfer sequence "FRV to A TDRFP" and PRESS Start.	Examinee selects the FRV to A TDRFP and clicks start	___	___	___
NOTE	TDRFP was feeding prior to transfer.				
7	MONITOR on coming TDRFP and reactor water level control as the oncoming TDRFP accelerates and eventually injects to the reactor vessel	Examinee monitors Reactor water Level and TDRFP Speed	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
8	VERIFY the component(s) in AUTO controls reactor water level as the TDRFP increases its injection rate.	Examinee verifies that the TDRFP controls Reactor Water Level	___	___	___
9	If reactor water level control is compromised, at the 1(2)DS001 Operator Station RWLC Process Overview screen, SELECT the appropriate transfer sequence and press RESET OR enter LOA-FW-101(201) as required.	Examinee validates that RWLC is not compromised	___	___	___
10	ALLOW the oncoming TDRFP demand to ramp to the common control output. WHEN the oncoming TDRFP demand reaches the common control output, the following will occur: • FRV and LFFRV M/A Station transfers to MANUAL. • Oncoming TDRFP M/A Station transfers to AUTO.	Examinee verifies that the FRV is in Manual and the TDRFP is in Auto	___	___	___
11	After a 3-minute time delay to allow system to stabilize, CHECK the FRV/LFFRV start to ramp closed.	Examinee verifies after 3 minutes that the FRV is closing/closed	___	___	___
12	VERIFY the components in AUTO control reactor water level as the MDRFP decreases its injection rate.	Examinee checks MDRFP flow and verifies it is no longer injecting	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
13	If reactor water level control is compromised, at the 1(2)DS001 Operator Station RWLC Process Overview screen, SELECT the appropriate transfer sequence and press RESET OR ENTER LOA-FW-101(201) as required.	Examinee validates that RWLC is not compromised	___	___	___
14	VERIFY proper operation of the MDRFP min flow valve. The MDRFP min flow valve should start to open below 2.0 Mlb/hr.	Examinee verifies that the MDRFP Min Flow Valve opens below 2.0 Mlb/hr	___	___	___
15	Inform Unit Supervisor	Examinee informs Unit Supervisor that the transfer sequence is complete	___	___	___
CUE	As Unit Supervisor, acknowledge the report. JPM complete.				

JPM Stop Time: _____

JPM SUMMARY

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

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

JPM Title: 0BAuto Transfer from MDRFP to TDRFP per LOP-RL-01

JPM Number: S-RL-01   Revision Number: 00

Task Number and Title: 31.009 Given Ubit Supervisor authorization, perform Control Room Actions to transfer RWLC from Manual to Automatic, IAW Station procedures

K/A Number and Importance: 259002 A1.04 (3.6/3.6) Ability to predict and/or monitor changes in parameters associated with operating the REACTOR WATER LEVEL CONTROL SYSTEM controls including: Reactor water level control controller indications

Suggested Testing Environment: Simulator

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

Reference(s): LOP-RL-01, Operation of the Reactor Level Control System, Re. 26

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

Comments: _____

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_____

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 NSO on Unit 1

- 1A TDRFP is online in manual and ready for operation per LOP-FW-04
- 1B TDRFP and Both Feed Reg Valves are in Auto

INITIATING CUE

The Unit Supervisor has directed you automatically transfer from the FRV to 1A TDRFP per LOP-RL-01.

Exelon Nuclear

Job Performance Measure

Defeat Refueling Bridge Position Near or Over the Core Limit Switches Interlock

JPM Number: <u>S-RM-02</u>

Revision Number: <u>01</u>

Date: <u>6 / 4 / 2018</u>

Developed By: <u>C. Betken/s</u>   <u>8/8/18</u>
                    Instructor   Date

Validated By: <u>Pratt / Quinn</u>   <u>7/22/18</u>
                   SME or Instructor   Date

Reviewed By: <u>T. Messner/s</u>   <u>8/9/18</u>
                  Training Department   Date

Approved By: <u>J. Messina/s</u>   <u>8/9/18</u>
                Operations Representative   Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOP-RM-02_____ Rev: 23___
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 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. Subsequent validations, sign and date below:

_____ _____
SME / Instructor   Date

_____ _____
SME / Instructor   Date

_____ _____
SME / Instructor   Date

Revision Record (Summary)

Revision 00,   New JPM developed for ILT 15-1 Cert Exam.

Revision 01,   Revised JPM for new K/A statement

SIMULATOR SETUP INSTRUCTIONS

1. Reset Simulator to IC # 151.

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 a copy of LOP-RM-02 (pages 1-9, 55-56) ready to provide to the Examinee.

3. VERIFY the ROD SELECT Display is in CONTROL Mode.

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.

INITIAL CONDITIONS

You are the Unit NSO,

- Unit 1 is at rated conditions.
- A Dry Cask Storage Campaign is in-progress on the Refuel Floor.

INITIATING CUE

The Unit Supervisor has directed you to defeat the 'Pc – Refueling Bridge Position Near or Over the Core Limit Switches' IAW LOP-RM-02, Rod Control Management System On Demand Functions, Step E.31 to support the Dry Cask Storage campaign. Notify the Unit Supervisor when complete with E.31.1.8.

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

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
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SRRS: 3D.100; There are no retention requirements for this section

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	After the Examinee has demonstrated where to obtain a copy of the procedure, provide them with a copy of LOP-RM-02.				
1	Obtain a copy of the procedure.	Examinee demonstrates where to obtain a copy of the procedure.	___	___	___
*2	SELECT 'SET PARAMETERS' at the ROD SELECT Display or the STATUS Display, whichever is in the CONTROL mode.	Examinee SELECTS 'SET PARAMETERS' at the Display that is in the CONTROL mode.	___	___	___
*3	SELECT 'SET SYS PARAM'.	Examinee SELECTS 'SET SYS PARAM'.	___	___	___
CUE	If the examinee requests the password, inform the examinee that the password is "zero".				
*4	ENTER the correct password and SELECT 'ENTER', on the keypad that appears.	Examinee ENTERS password and SELECTS 'ENTER'.	___	___	___
*5	SCROLL down the display menu using the UP/DOWN arrows to HIGHLIGH 'Pc-REFUELING BRIDGE POSITION NEAR OR OVER THE CORE LIMIT SWITCHES (SET TO NOT OTC/RESTORE TO ACTUAL)'.	Examinee SCROLLS down the display menu to HIGHLIGHT 'Pc- REFUELING BRIDGE POSITION NEAR OR OVER THE CORE LIMIT SWITCHES (SET TO NOT OTC/RESTORE TO ACTUAL)'. (can also touch)	___	___	___
*6	SELECT 'SET TO NOT OTC' using the LEFT/RIGHT arrows on the display.	Examinee SELECTS 'SET TO NOT OTC' using the LEFT/RIGHT arrows on the display. (can also touch)	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
7	SET TO NOT OTC will be highlighted in the area next to the description 'Pc – REFUELING BRIDGE POSITION NEAR OR OVER THE CORE LIMIT SWITCHES (SET TO NOT OTC/RESTORE TO ACTUAL'.	Examinee place keeps procedure step.	___	___	___
*8	SELECT 'ACCEPT' to defeat the interlock and ACKNOWLEDGES the pop-up confirmatory message..	Examinee SELECTS 'ACCEPT' to defeat the interlock and ACKNOWLEDGES the pop-up confirmatory message.	___	___	___
9	NOTIFY Unit Supervisor the interlock is defeated.	Examinee NOTIFES the Unit Supervisor the interlock is defeated.	___	___	___
CUE	As Unit Supervisor, acknowledge report. 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: 0BDefeat Refueling Bridge Position Near or Over the Core Limit Switches Interlock
JPM Number: S-RM-02   Revision Number: 01
Task Number and Title: 30.001 Given Unit Supervisor authorization, perform Control Room actions to support the movement of a fuel bundle or control rod blade guide within and between the Reactor and the Spent Fuel Pools.
K/A Number and Importance: 201002 K1.08 (3.2/3.6) Knowledge of the physical connections and/or cause –effect relationships between REACTOR MANUAL CONTROL SYSTEM and the following: Refueling interlocks
Suggested Testing Environment: Simulator
Alternate Path: ☐Yes ☒No   SRO Only: ☐Yes ☒No   Time Critical: ☐Yes ☒No
Reference(s): LOP-RM-02, Rod Control Management System On Demand Functions, Rev 23

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 5   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

Comments: _____
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_____

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 NSO,

- Unit 1 is at rated conditions.
- A Dry Cask Storage Campaign is in-progress on the Refuel Floor.

INITIATING CUE

The Unit Supervisor has directed you to defeat the 'Pc – Refueling Bridge Position Near or Over the Core Limit Switches' IAW LOP-RM-02, Rod Control Management System On Demand Functions, Step E.31 to support the Dry Cask Storage campaign. Notify the Unit Supervisor when complete with E.31.1.8.

Exelon Nuclear

Job Performance Measure

Perform a Loss of 142Y Hard Card with a Failure of the first ACB to Close

JPM Number: <u>S-AP-08</u>

Revision Number: <u>00</u>

Date: <u>6 / 4 / 2018</u>

Developed By:	<u>C. Betken/s</u> Instructor	<u>8/8/18</u> Date
Validated By:	<u>Pratt / Quinn</u> SME or Instructor	<u>7/22/18</u> Date
Reviewed By:	<u>T. Messner/s</u> Training Department	<u>8/9/18</u> Date
Approved By:	<u>J. Messina/s</u> Operations Representative	<u>8/9/18</u> Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOA-AP-101_____ Rev: 58___
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 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. Subsequent validations, sign and date below:

SME / Instructor	Date

SME / Instructor	Date

SME / Instructor	Date

Revision Record (Summary)

Revision 00, Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to 356 Password 0356.

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 Smart Scenario S-AP-08.ssf.

3. Verify the Loss of 142Y Hardcard is clean.

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.

INITIAL CONDITIONS

You are the Assist NSO

- A loss of 142Y has occurred
- 1A WR Pump is running and operating properly
- 1A CRD Pump is running and operating properly
- 1H13-P603-A204, CRD Charging Wtr Press Lo is NOT in alarm
- RPS Quick Swap Hardcard is complete
- IA to IN Cross-Tie Hardcard is complete

INITIATING CUE

The Unit Supervisor has directed to you to Re-energize bus 142Y using the "Loss of 142Y" Hardcard and to inform them when 142Y is energized.

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

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

• •

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	Examinee may obtain the Loss of 142Y hardcard.				
NOTE	The first method to re-energize 142Y will Fail (Steps 3, 4, or 5) and the second method to re-energize 142Y will Work (Steps 3, 4, or 5). Two of the steps MUST be complete to re-energize 142Y and the third step (and sub-steps of that step) may be N/A'd.				
1	VERIFY annunciator 1PM01J-B202, 4KV Bus 142X/Y Overcurrent alarm is CLEAR.	Examinee verifies 1PM01J-B202 is clear	___	___	___
2	VERIFY all three phase voltages are approximately equal using 142X/Y Voltmeter switch.	Examinee verifies all 3 phases are equal on bus 142X using the Bus 142X-142Y Voltmeter Selector Switch	___	___	___
ALTERNATE PATH BEGINS HERE					
NOTE	If this is the first method chosen ACB 1425 will fail to close.				
CUE	If the Examinee attempts to enter LOA-AP-101 at any time, inform them that another NSO will follow-up with LOA-AP-101.				
*3	If 142X is energized, SYNCHRONIZE and CLOSE ACB 1425.	Examinee takes the Sync Scope Selector Switch for ACB 1425 to ON and takes ACB 1425 to close	___	___	___
4	If desired to re-energize 142Y from Unit-2:				
CUE	If the Examinee asks what is powering 242Y, inform them that 242Y is powered from the SAT.				
4.1	CHECK 242Y energized from Unit-2 SAT.	Examinee asks Unit 2 what is powering 242Y	___	___	___
CUE	If the Examinee asks Unit 2 if ACB 2425 is open, inform them that ACB 2425 is open.				
4.2	CHECK ACB 2425 is OPEN	Examinee asks Unit 2 the status of ACB 2424	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	If the Examinee orders closing ACB 2424, inform them ACB 2424 is closed.				
4.3	SYNCHRONIZE and CLOSE ACB 2424.	Examinee asks Unit 2 if ACB 2424 is closed	___	___	___
NOTE	If this is the first method chosen ACB 1424 will fail to close.				
*4.4	SYNCHRONIZE and CLOSE ACB 1424.	Examinee takes ACB 1424 Sync Scope Selector Switch to ON and closes ACB 1424	___	___	___
5	If desired to re-energize 142Y from 1A DG:				
NOTE	If this is the first method chosen the 1A DG will not start.				
NOTE	If this is the second method chosen the 1A DG Output Breaker will Auto-close.				
*5.1	If 1A DG did not auto-start, START using control switch on 1PM01J.	Examinee starts the 1A DG START using control switch.	___	___	___
5.2	If 1A DG will not start, REFER to LOA-DG-101.	Examinee determines this step is not applicable	___	___	___
5.3	If 1A DG Output Breaker ACB 1423 did not auto-close, REFER to LOA-AP-101.	Examinee attempts to enter LOA-AP-101 if this is the first method chosen to re-energize 142Y	___	___	___
6	Inform Unit Supervisor	Examinee informs Unit Supervisor that Bus 142Y is re-energized	___	___	___
CUE	As Unit Supervisor, acknowledge the report. JPM complete.				

JPM Stop Time: _____

JPM SUMMARY

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

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

JPM Title: 0BPerform a Loss of 142Y Hard Card with a Failure of the first ACB to Close

JPM Number: S-AP-08   Revision Number: 00

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

K/A Number and Importance: 262001 A2.07 (3.0/3.2) Ability to (a) predict the impacts of the following on A.C. ELECTRICAL DISTRIBUTION; and (b) based on those predictions, use procedures to correct control, or mitigate the consequences of those abnormal conditions or operations: Energizing a dead bus

Suggested Testing Environment: Simulator

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

Reference(s): LOA-AP-101, Unit 1 AC Power System Abnormal Rev. 58

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 8 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

Comments: _____

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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

- A loss of 142Y has occurred
- 1A WR Pump is running and operating properly
- 1A CRD Pump is running and operating properly
- 1H13-P603-A204, CRD Charging Wtr Press Lo is NOT in alarm
- RPS Quick Swap Hardcard is complete
- IA to IN Cross-Tie Hardcard is complete

INITIATING CUE

The Unit Supervisor has directed to you to Re-energize bus 142Y using the "Loss of 142Y" Hardcard and to inform them when 142Y is energized.

Exelon Nuclear

Job Performance Measure

Shutdown Suppression Pool Cooling with High Rad

JPM Number: <u>S-RH-28</u>

Revision Number: <u>00</u>

Date: <u>6 / 4 / 2018</u>

Developed By:	<u>C. Betken/s</u> Instructor	<u>8/8/18</u> Date
Validated By:	<u>Pratt / Quinn</u> SME or Instructor	<u>7/22/18</u> Date
Reviewed By:	<u>T. Messner/s</u> Training Department	<u>8/9/18</u> Date
Approved By:	<u>J. Messina/s</u> Operations Representative	<u>8/9/18</u> Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOP-RH-13_____ Rev: 32____
Procedure LOP-RH-05_____ Rev: 34____
Procedure LOR-1H13-P601B212 Rev: 2____

_____ 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. Subsequent validations, sign and date below:

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

Revision Record (Summary)

Revision 00,   Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 355 Password 0355

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.

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2. Load and run Smart Scenario S-RH-28.ssf.

3. Have marked up copies of LOP-RH-05 and LOP-RH-13.

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.

INITIAL CONDITIONS

You are the assist NSO

- 1A RHR is in Suppression Pool Cooling to support a RCIC Surveillance
- The RCIC Surveillance is complete
- An EO is in the field standing by to assist you

INITIATING CUE

The Unit Supervisor has directed you to Secure Suppression Pool Cooling Water per LOP-RH-13 and to inform them when complete.

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

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
- -

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	When the Examinee acknowledges their initiating cue, hand them a copy of LOP-RH-05 and LOP-RH-13.				
*1	CLOSE 1E12 F024A, A RHR Test to SP Vlv.	Examinee closes 1E12-F024A A RHR Test to SP Vlv control switch to CLOSE.	___	___	___
2	VERIFY 1E12 F064A, A RHR Min Flow Vlv OPENS.	Examinee verifies 1E12-F064A A RHR Min Flow Vlv OPENS.	___	___	___
*3	STOP 1E12 C002A, A RHR Pump.	Examinee Stops 1A RHR Pump.	___	___	___
ALTERNATE PATH BEGINS HERE					
4	Annunciator 1H13-P601-B112 alarms	Examinee pulls the LOR-1H13-P601-B112 and follows it.	___	___	___
CUE	If the Examinee reports the annunciator, acknowledge as the Unit Supervisor				
5	CHECK Recorder 1D18-R602 on 1H13-P600 is reading greater than or equal to alarm setpoint and RECORD reading in Unit Log.	Examinee notes the following on 1H13-P600 and 1H13-P604: • Recorder 1A WS Radiation Monitor, 1D18-R602, reading approximately 800 cpm. • 1A WS Rad Monitor 1D18-K604, Hi alarms in.	___	___	___
6	RECORD RHR Flow, Heat Exchanger Pressure, and RHR Service Water Flow in Unit Log.	Examinee notes: • RHR Flow • RHR WS Flow • RHR Heat exchanger Pressure	___	___	___
7	Notify Chemistry Department to sample tube side of RHR and determine amount of release.	Examinee notifies the Chemistry dept. to quantify the release	___	___	___
CUE	Chemistry acknowledges too sample and quantify the release.				

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
8	Place the Thermal Overload Bypass Switch in TEST for 1E12-F068A.	Verify places the Thermal Overload Bypass Switch in TEST for 1E12-F068A.	___	___	___
9	LOG positioning of O/L Bypass switch in the Unit Log.	Verify request Unit NSO to log position of O/L Bypass Switch.	___	___	___
CUE	Unit NSO will log position of the O/L Bypass Switch.				
*10	CLOSE 1E12-F068A RHR Hx Water Outlet Valve	Examinee closes 1E12-F068A RHR HX Water Outlet Valve.	___	___	___
*11	When flow indicated on 1E12-R602A decreases to 4,000 gpm, STOP 1E12-C300 A/B.	Examinee stops RHR Service Water Pump 1E12-C300A/B.	___	___	___
*12	When flow indicated on 1E12-R602A decreases to 0 gpm, STOP one 1E12-C300 A/B.	Examinee stops RHR Service Water Pump one 1E12-C300A/B.	___	___	___
13	Close 1E12-F003A	Examinee closes 1E12-F003A RHR HX Water Outlet Valve.	___	___	___
14	Close 1E12-F047A	Examinee closes 1E12-F047A RHR HX Water Outlet Valve.	___	___	___
15	Place the Thermal Overload Bypass Switch in Normal for 1E12-F068A.	Examinee places the Thermal Overload Bypass Switch in Normal for 1E12-F068A.	___	___	___
NOTE	Additional RHR Service Water Valves may be closed in order to isolate the Heat Exchanger; however, closing the 1E12-F068A will stop the release path to the environment.				
CUE	Unit NSO will log position of the O/L Bypass Switch.				
16	Inform Unit Supervisor that could not complete the task.	Examinee notifies Unit Supervisor '1A' RHR WS is shutdown and isolated.	___	___	___
CUE	As Unit Supervisor, acknowledge report. 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: 0BShutdown Suppression Pool Cooling with High Rad

JPM Number: S-RH-28   Revision Number: 00

Task Number and Title: 52.035 Provided initial conditions, respond to a High Release rate, IAW station procedures

K/A Number and Importance: 272000 A1.01 (3.2/3.2) Ability to predict and/or monitor changes in parameters associated with operating the RADIATION MONITORING SYSTEM controls including: Lights, alarms, and indications associated with normal operations

Suggested Testing Environment: Simulator

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

Reference(s): LOP-RH-05, Operation of the RHR Service Water System Rev. 34; LOP-RH-13, Suppression Pool Cooling Operation, Rev. 32

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

Comments: _____

_____

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_____

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

- 1A RHR is in Suppression Pool Cooling to support a RCIC Surveillance
- The RCIC Surveillance is complete
- An EO is in the field standing by to assist you

INITIATING CUE

The Unit Supervisor has directed you to Secure Suppression Pool Cooling Water per LOP-RH-13 and to inform them when complete.

Exelon Nuclear

Job Performance Measure

Swap WR Pumps per LOP-WR-02 (Alternate Path)

JPM Number: <u>S-WR-02</u>

Revision Number: <u>00</u>

Date: <u>6 / 1 / 2016</u>

Developed By:	<u>C. Betken/s</u> Instructor	<u>8/8/18</u> Date
Validated By:	<u>Pratt / Quinn</u> SME or Instructor	<u>7/22/18</u> Date
Reviewed By:	<u>T. Messner/s</u> Training Department	<u>8/9/18</u> Date
Approved By:	<u>J. Messina/s</u> Operations Representative	<u>8/9/18</u> Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____ 1. Task description and number, JPM description and number are identified.

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

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

_____ 4. Initial setup conditions are identified.

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

_____ 6. Task standards identified and verified by SME review.

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

_____ 8. If an alternate path is used, the task standard contains criteria for successful completion.

_____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOP-WR-02_____ Rev: 26__
Procedure LOR-1PM10J-A201 Rev: 2___
Procedure LOA-WR-101_____ Rev: 16__

_____ 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. Subsequent validations, sign and date below:

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

Revision 00, This JPM was developed NEW for the 2016 NRC Annual Exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to any Full Power IC

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 1A WR Pump RUNNING.

3. LOAD and RUN CAE **SWR02r00.cae**.

4. Have copies of LOP-WR-02

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.

INITIAL CONDITIONS

You are an NSO,

- 1A WR Pump is RUNNING on Unit 1.
- BOTH 1B and 0 WR Pumps are in standby on Unit 1 and ready to be placed in service.
- An Equipment Operator is standing by to assist you.
- Prestart checks are complete

INITIATING CUE

The Unit Supervisor has directed you to shift WR pump operation from the 1A WR Pump to the 1B Pump IAW LOP-WR-02, Startup and Operation of the Reactor Building Closed Cooling water System, Section E.2. Notify the Unit Supervisor when the WR Pump shift 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 examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

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

The timeclock starts when the candidate acknowledges the initiating cue.
▪▪

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE:	After the Examinee demonstrates where to obtain a copy of the procedure provide them with a copy of LOP-WR-02.				
1	OBTAIN a copy of LOP-WR-02.	Examinee demonstrates how OBTAIN a copy of LOP-WR-02.	___	___	___
*2	START 1B WR Pump from panel 1PM09J.	Examinee STARTS 1B WR Pump from panel 1PM09J.	___	___	___
CUE	As Equipment Operator, if required, when request to perform post start checks report that post start checks of the 1B WR pump are completed SAT.				
3	OBSERVE the 1B WR Pump amperes on indicator 1II-WR005 on panel 1PM10J is slightly below normal running amps of 145 to 172 amps.	Examinee OBSERVES the 1B WR Pump amperes on indicator 1II-WR005 on panel 1PM10J is slightly below normal running amps of 145 to 172 amps.	___	___	___
4	OBSERVE that the Unit 1 WR Pump Discharge Header Pressure increases on pressure indicator 1PI-WR008 on panel 1PM10J and steadies out slightly above normal operating system pressure of 52 to 80 psig.	Examinee OBSERVES that the Unit 1 WR Pump Discharge Header Pressure increases on pressure indicator 1PI-WR008 on panel 1PM10J and steadies out slightly above normal operating system pressure of 52 to 80 psig.	___	___	___
NOTE:	When the Examinee STOPS the 1A WR Pump a malfunction is automatically inserted to override 1B WR Pump Amps to show degrading amps and degrading WR Discharge Header Pressure.				
5	STOP the 1A WR Pump after the system pressure stabilizes.	Examinee STOPS the 1A WR Pump after the system pressure stabilizes.	___	___	___
6	OBSERVE that the Unit 1 WR Pump Discharge Header Pressure returns to approximately the same pressure prior to pump shifting	Examinee IDENTIFIES that the Unit 1 WR Pump Discharge Header Pressure DID NOT return to approximately the same pressure prior to pump shifting AND pressures IS trending down.	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
7	OBSERVE 1B WR Pump amperes on indicator 1II-WR005 is between 145 and 172 amps on panel 1PM10J.	Examinee IDENTIFIES that the 1B WR Pump amperes on indicator 1II-WR005 is between 145 and 172 amps on panel 1PM10J AND is trending down.	___	___	___
8	NOTIFY Unit Supervisor that 1B WR Pump trends are ABNORMAL and starting 1A WR Pump.	Examinee NOTIFIES Unit Supervisor that 1B WR Pump trends are ABNORMAL and is starting 1A WR Pump.			
CUE	As Unit Supervisor acknowledge report.				
ALTERNATE PATH BEGINS HERE					
9	If header pressure or amps are abnormal, PERFORM following: • RESTART the 1A WR Pump • STOP the 1B WR Pump	Examinee RESTARTS 1A WR Pump.	___	___	___
10	OBSERVE 1A WR Pump amperes on indicator 1II-WR002 is between 145 and 172 amps on panel 1PM10J.	Examinee IDENTIFIES that the 1A WR Pump amperes on indicator 1II-WR002 is 0 amps on panel 1PM10J.			
11	OBSERVE that the Unit 1 WR Pump Discharge Header Pressure returns to approximately the same pressure prior to pump shifting	Examinee IDENTIFIES that the Unit 1 WR Pump Discharge Header Pressure CONTINUES TO trend down.			
12	NOTIFY Unit Supervisor that 1A WR Pump DID NOT START and starting 0 WR Pump.	Examinee NOTIFIES Unit Supervisor that 1A WR Pump DID NOT START and is starting 0 WR Pump.			
CUE	As Unit Supervisor acknowledge report.				

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*13	START Standby Reactor Building Closed Cooling Water Pump per LOP-WR-02, Startup and Operation of Reactor Building Closed Cooling Water System.	Examinee STARTS 0 WR Pump.	___	___	___
14	OBSERVE that the Unit 1 WR Pump Discharge Header Pressure increases on pressure indicator 1PI-WR008 on panel 1PM10J and steadies out slightly above normal operating system pressure of 52 to 80 psig.	Examinee OBSERVES that the Unit 1 WR Pump Discharge Header Pressure increases on pressure indicator 1PI-WR008 on panel 1PM10J and steadies out slightly above normal operating system pressure of 52 to 80 psig.	___	___	___
15	STOP the 1B WR Pump after the system pressure stabilizes.	Examinee STOPS the 1B WR Pump after the system pressure stabilizes.	___	___	___
16	OBSERVE that the Unit 1 WR Pump Discharge Header Pressure returns to approximately the same pressure prior to pump shifting.	Examinee OBSERVEs that the Unit 1 WR Pump Discharge Header Pressure returns to approximately the same pressure prior to shifting from 1A pump.	___	___	___
17	NOTIFY Unit Supervisor that 0WR is RUNNING supplying Unit 1.	Examinee NOTIFIES Unit Supervisor that 0WR is RUNNING supplying Unit 1.	___	___	___
CUE	As Unit Supervisor, acknowledge report. 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: 0BSwap WR Pumps per LOP-WR-02 (Alternate Path)
JPM Number: S-WR-02   Revision Number: 00
Task Number and Title: 114.008 Perform the Main Control Room actions to swap Reactor Building Closed Cooling Water (RBCCW) Pumps

K/A Number and Importance: 400000 A4.01 3.1/3.0
Suggested Testing Environment: Simulator
Alternate Path: ☒ Yes ☐ No   SRO Only: ☐ Yes ☒ No   Time Critical: ☐ Yes ☒ No
Reference(s): LOP-WR-02, Startup and Operation of the Reactor Building Closed Cooling Water System, Rev. 26

LOR-1PM10J-A201 Reactor Building Closed Cooling Water Pump Discharge Header Pressure Low, Rev. 2

LOA-WR-101, Loss of Reactor Building Closed Cooling Water, Rev. 16

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 8 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

Comments:_____

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Evaluator's Name: _____ (Print)

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

INITIAL CONDITIONS

You are an NSO,

- 1A WR Pump is RUNNING on Unit 1.
- Both 1B and 0 WR Pumps are in standby on Unit 1 and ready to be placed in service.
- An Equipment Operator is standing by to assist you.
- Prestart checks are complete

INITIATING CUE

The Unit Supervisor has directed you to shift WR pump operation from the 1A WR Pump to the 1B Pump IAW LOP-WR-02, Startup and Operation of the Reactor Building Closed Cooling water System, Section E.2. Notify the Unit Supervisor when 1B WR Pump is RUNNING.

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

Exelon Nuclear

Job Performance Measure

Partial Half Scram per LOA-RP-101

JPM Number: <u>S-RP-05</u>

Revision Number: <u>00</u>

Date: <u>10 / 3 / 2018</u>

Developed By: <u>   Betken   </u>   <u>10/4/18</u>
                        Instructor   Date

Validated By: <u>   Reyes   </u>   <u>10/4/18</u>
                  SME or Instructor   Date

Reviewed By: <u>   Messner   </u>   <u>10/4/18</u>
                 Training Department   Date

Approved By: <u>   Messina   </u>   <u>10/4/18</u>
              Operations Representative   Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

_____   1.   Task description and number, JPM description and number are identified.

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

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

_____   4.   Initial setup conditions are identified.

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

_____   6.   Task standards identified and verified by SME review.

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

_____   8.   If an alternate path is used, the task standard contains criteria for successful completion.

_____   9.   Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure LOA-RP-101   Rev: 16
Procedure LOA-RP-Q6   Rev: 0
Procedure _____   Rev: ____

_____   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. Subsequent validations, sign and date below:

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

_____   _____
SME / Instructor   Date

Revision Record (Summary)

Revision 00,   Developed for 17-1 NRC Exam

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 151

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.

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2. Load and Run Smart Scenario S-RP-05.ssf

3. Have a copy of LOS-RP-Q6 Attachments 1A and 1B with which sections B, C and D marked up.

4. Place flags on 1H13-P603-B203, B211, B303, B311, B504, B510.

5. Verify LOA-RP-101 is clean.

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.

INITIAL CONDITIONS

You are the Unit 1 ATC

- Unit 1 is at 100% power
- LOS-RP-Q6 is in progress
- IMD is NOT performing LIS-RP-101A and B in conjunction with this surveillance

INITIATING CUE

The Unit Supervisor has directed you to perform LOS-RP-Q6 starting at step 6 of Attachment 1A and to inform them when complete.

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

- -

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.
- -

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

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE	When the examinee has acknowledges their initiating cue, hand them a copy of LOS-RP-Q6.				
1	If IMD is performing LIS-RP-101A, then VERIFY recorder is hooked up and IMD is ready to record response time data.	Examinee determines that IMD is not performing LIS-RP-101A.	___	___	___
*2	ARM Reactor Manual Scram pushbutton for Trip System A1 and VERIFY the CHAN A MANUAL SCRAM SWITCH ARMED alarm illuminates.	Examinee arms the A1 Scram Pushbutton and verifies annunciator 1H13-P603-B504 illuminates.	___	___	___
3	If IMD is performing LIS-RP-101A, then DIRECT IMD to START recorder and when all recorder traces have changed state, then STOP the recorder.	Examinee determines that IMD is not performing LIS-RP-101A.	___	___	___
*4	Momentarily PRESS the Reactor Manual Scram pushbutton for Trip System A1 and CHECK the following: • CHAN A1 REACTOR AUTO SCRAM alarm illuminates. • SCRAM GROUP A Solenoid lights de-energize.	Examinee depresses the A1 pushbutton and verifies annunciator 1H13-P603-B203 illuminates and the A Solenoid lights de-energize.	___	___	___
ALTERNATE PATH BEGINS HERE					
*5	RESET the tripped channel and CHECK the following: • SCRAM GROUP A Solenoid lights re-energize. • CHAN A1 REACTOR AUTO SCRAM alarm can be reset.	Examinee takes the Scram reset switch clockwise and counterclockwise and determines the A Group 3 light did not re-energize.	___	___	___

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE	If the Examinee attempts to check the light bulb, inform them that the bulb is NOT burnt out.				
NOTE	The Examinee may obtain a copy of LOA-RP-101.				
6	CHECK and continue to monitor the following: • ONLY one RPS Bus – affected AND • Control Rods NOT moving.	Examinee determines that only one bus is affected and no control rods are moving.	___	___	___
7	SUSPEND any HALF SCRAM testing in progress.	Examinee determines from the initial conditions that testing is in progress and should be suspended.	___	___	___
CUE	If the Examinee asks the status of Fuse 'F18C', inform the examinee that the Assist NSO has checked the fuse, was blown and it has been replaced.				
8	CHECK RPS BUS Scram Sol Group light(s) out on a single RPS BUS: o Scram Sol Group 1 and 4 OR o Scram Sol Group 2 and 3 OR o ONLY a single solenoid group light	Examinee determines only the Group 3 light is out on RPS 'A'.	___	___	___
9	VERIFY affected 1C71-F18 fuse(s) NOT blown at panel 1H13 P609 or 1H13-P611.	Examinee determines no fuses are currently blown.	___	___	___
10	RESET HALF SCRAM.	Examinee determines the Half Scram will not reset.	___	___	___
CUE	If the Examinee asks the status of Fuse 'F18C', inform the examinee that the Assist NSO has checked the fuse and it is NOT blown.				

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

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*11	INSERT a HALF SCRAM on the affected RPS BUS.	Examinee will insert a Half Scram on the 'A' RPS Bus by arming and depressing the A1 and/or A2 Manual Scram Pushbuttons.	___	___	___
12	Inform Unit Supervisor.	Examinee Informs Unit Supervisor that B.5 of LOA-RP-101 is complete and a Half Scram has been inserted on 'A' RPS.	___	___	___
CUE	As Unit Supervisor, acknowledge the report. JPM Complete.				

JPM Stop Time: _____

JPM SUMMARY

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

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

JPM Title: 0BPartial Half Scram per LOA-RP-101

JPM Number: S-RP-05   Revision Number: 00

Task Number and Title: 49.017 Given Unit Supervisor authorization, Reset the RPS system scram, IAW station procedures

K/A Number and Importance: 212000 Reactor Protection System A4.07 (4.0/3.9) Ability to manually operate and/or monitor in the control room: System status and lights

Suggested Testing Environment: Simulator

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

Reference(s): LOA-RP-101, Unit 1 Loss of Reactor Protection System Power, Rev. 16; LOS-RP-Q6, Manual Scram Instrumentation, Rev. 0

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

Testing Method: ☐ Simulate   ☒ Perform

Estimated Time to Complete: 5 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

Comments:_____

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_____

Evaluator's Name: _____   (Print)

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

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

INITIAL CONDITIONS

You are the Unit 1 ATC

- Unit 1 is at 100% power
- LOS-RP-Q6 is in progress
- IMD is NOT performing LIS-RP-101A and B in conjunction with this surveillance

INITIATING CUE

The Unit Supervisor has directed you to perform LOS-RP-Q6 starting at step 6 of Attachment 1A and to inform them when complete.