

Exelon Nuclear

Job Performance Measure

CRD - VENT SCRAM AIR HEADER

JPM Number: S-N-i

Revision Number: 12

Date: 10/09

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 11 New JPM.

Revision 12 Revised for 2009 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is an in-plant JPM.

DOCUMENT PREPARATION

1. Clean copy of DEOP 0500-05.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. An ATWS has occurred on Unit 3.
3. The Operating Team has been unable to insert Control Rods from the Control Room.

INITIATING CUE

1. The Unit Supervisor has directed you to vent the Unit 3 Scram Air Header in accordance with DEOP 500 05.
2. Inform the Unit Supervisor when the task 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.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

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.

Job Performance Measure (JPM)

JPM Start Time: _____

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<u>NOTE:</u> Provide the Examinee with the supplied copy of DEOP 0500-05.					
	1.	Obtain an adjustable wrench for use in instrument test connection removal	Obtains adjustable wrench from the any suitable location.	_____	_____
<u>CUE:</u> The equipment you identified is in your hand.					
	2.	Proceeds to the Unit 3 CRD Flow Control Station Area.	Locates the Unit 3 CRD Flow Control Station Area.	_____	_____
*	3.	Close manual valve 3-0301-109, U3 SCRAM AIR HDR SUPPLY ISOL VLV.	Rotates 3-0301-109 valve CW until handwheel and stem are full in.	_____	_____
<u>CUE:</u> The component is in the condition you have described.					
*	4.	Remove instrument test connection from manual valve 3-0301-102, U3 SCRAM AIR HDR PI 3-302-80 TEST CONN SV.	Rotates manual valve 3-0301-102 instrument test connection CCW until off.	_____	_____
<u>CUE:</u> The component is in the condition you have described.					

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
*	5.	Open manual valve 3-0301-102, U3 SCRAM AIR HDR PI 3-0302-80 TEST CONN SV.	Rotates 3-301-102 valve CCW until handwheel and stem are full out.	_____	_____	_____
<u>CUE:</u> As the examinee informs you that he/she is opening the valve, inform him/her that a loud rush of air is heard and eventually stops. The component is in the condition you have described.						
	6.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.						
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO ☐ SRO ☐

JPM Title: CRD - VENT SCRAM AIR HEADER

Revision Number: 12

JPM Number: S-N-i

Task Number and Title: 295L106, Vent the Unit 3 Scram Pilot Air Header to insert control rods.

K/A Number and Importance: 295037.A1.05 3.9 / 4.0

Suggested Testing Environment: In-Plant

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

Testing Method: ☒ Simulate ☐ Perform
Alternate Path: ☐ Yes ☒ No
SRO Only: ☐ Yes ☒ No

Time Critical: ☐ Yes ☒ No

Estimated Time to Complete: 10 minutes **Actual Time Used:** _____ minutes

References: DEOP 0500-05, rev 16

EVALUATION SUMMARY:

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

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. An ATWS has occurred on Unit 3.
3. The Operating Team has been unable to insert Control Rods from the Control Room.

INITIATING CUE

1. The Unit Supervisor has directed you to vent the Unit 3 Scram Air Header in accordance with DEOP 500 05.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

ISO COND - VALVE IN LOCAL SIGHTGLASS

JPM Number: S-N-j

Revision Number: 10

Date: 10/09

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 09 New JPM.

Revision 10 Revised for 2009 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is an in-plant JPM.

DOCUMENT PREPARATION

1. Clean copy of DOP 1300-05.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 2 is controlling RPV pressure using the Isolation Condenser.
3. The Isolation Condenser water level indication in the Control Room is erratic and unreliable.

INITIATING CUE

1. The Unit Supervisor has directed you to valve in the Unit 2 Isolation Condenser local water level sight glass per DOP 1300-05 and then report Isolation Condenser water level to the Control Room.
2. Inform the Unit Supervisor when the task 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.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

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.

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<u>NOTE:</u> Provide the Examinee with the supplied copy of DOP 1300-05.				
<u>CUE:</u> IF examinee cannot find the sight glass drain valve and states the he/she would contact a supervisor, provide the report: "what does the procedure state and/or trace the flowpath"?				
1.	Verify the sight glass drain valve is closed.	Petcock valve operator full CW.	_____	_____
<u>CUE:</u> The component is in the condition you have described.				
2.	Verify 2A-1341A, ISOL CDSR LVL INST ROOT VLV is open.	Hand wheel is full CCW.	_____	_____
<u>CUE:</u> The component is in the condition you have described.				
*	3. Open 2-1301-39, ISOL CDSR SIGHT GLASS HI SIDE SV.	Rotate hand wheel full CCW.	_____	_____
<u>CUE:</u> The component is in the condition you have described.				
*	4. Open 2-1301-40, ISOL CDSR SIGHT GLASS LO SIDE SV	Rotate hand wheel full CCW.	_____	_____
<u>CUE:</u> The component is in the condition you have described.				
*	5. Open 2-1301-633, ISOL CDSR SIGHT GLASS HI SIDE ROOT	Rotate hand wheel full CCW.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
<u>CUE:</u> The component is in the condition you have described.						
*	6.	Open 2-1301-634, ISOL CDSR SIGHT GLASS LO SIDE ROOT.	Rotate hand wheel full CCW.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.						
	7.	Observe indicated level in the sight glass.	Observes indicated level in the sight glass.	_____	_____	_____
<u>CUE:</u> The sight glass is completely FULL.						
	8.	Report indicated sight glass level to the control room.	Informs Control Room local Isolation Condenser sightglass level is full or > 67 inches.	_____	_____	_____
<u>CUE:</u> Repeat back sight glass level.						
	9.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.						
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO ☐ SRO ☐

JPM Title: ISO COND - VALVE IN LOCAL SIGHTGLASS

Revision Number: 10

JPM Number: S-N-j

Task Number and Title: 207N008, Valve in Isolation Condenser Local Sight glass

K/A Number and Importance: 207000.A3.01 3.5 / 3.7

Suggested Testing Environment: In-Plant

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

Testing Method: ☒ Simulate ☐ Perform
Alternate Path: ☐ Yes ☒ No
SRO Only: ☐ Yes ☒ No

Time Critical: ☐ Yes ☒ No

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

References: DOP 1300-05, rev 05

EVALUATION SUMMARY:

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

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 2 is controlling RPV pressure using the Isolation Condenser.
3. The Isolation Condenser water level indication in the Control Room is erratic and unreliable.

INITIATING CUE

1. The Unit Supervisor has directed you to valve in the Unit 2 Isolation Condenser local water level sight glass per DOP 1300-05 and then report Isolation Condenser water level to the Control Room.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

AUX POWER - RACK OUT 4KV BREAKER

JPM Number: S-N-k

Revision Number: 10

Date: 10/09

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 09 New JPM.

Revision 10 Revised for 2009 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is an in-plant JPM.

DOCUMENT PREPARATION

1. Clean copy of DOP 6500-04.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. A fire in the 2B SDC pump motor has been reported by the U2 EO, while performing rounds.

INITIATING CUE

1. The Unit Supervisor has directed you to rack out the 4 KV breaker for the 2B Shutdown Cooling Pump, to the DISC position and leave it in the cubicle, per DOP 6500-04, step G.1.
2. Inform the Unit Supervisor when the task 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.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

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.

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>Provide the Examinee with the supplied copy of DOP 6500-04.</p> <p><u>Step 1 of this JPM may be performed anytime prior to step 6.</u></p>				
1.	Locate and don electrical protective clothing and equipment: <ul style="list-style-type: none"> Rubber Gloves. Leather gauntlets. Hard hat with face shield. Electrical safety apron/cloak. Rack-out wrench. 	Identifies equipment (do NOT allow examinee to remove equipment from safety cabinet).	_____	_____
2.	Verify that the 2B SDC Pump breaker is OPEN and control switch is in the PTL, in the Control Room.	Control switch is in PTL position.	_____	_____
<p><u>CUE:</u></p> <p>The component is in the condition you have described.</p>				
3.	Locate the breaker and verify the nameplate correct.	LOCATES breaker for 2B SDC Pump correctly.	_____	_____

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
	4. Verify the breaker is open, by observing the following, at the breaker cubicle: <ul style="list-style-type: none"> Ammeter indicating 0. Watt-hour meter NOT turning. LOCAL CONTROL switch green OPEN light is ON. TEST SELECTOR SW is in OFF. ACB breaker indicator flag above LOCAL CONTROL SWITCH is green OPEN. 	<ul style="list-style-type: none"> Pointing to 0. NOT rotating. GREEN light illuminated. In OFF position. Flag indicator window is GREEN. 	_____	_____	_____
<u>CUE:</u> The components are in the conditions you have described.					
*	5. Position charging motor cutout switch to OFF.	Switch in OFF (down) position.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.					
*	6. Depress MANUAL TRIP push button on ACB front panel.	DEPRESSES TRIP pushbutton.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.					
	7. Verifies GREEN OPEN indication on ACB front panel.	Indicator displays green OPEN.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.					

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
*	8.	Remove the CLOSE (NR) fuses.	REMOVE CLOSE fuse block (may insert upside down, back into receiver or place on bottom of upper cubicle).		
<u>CUE:</u> The component is in the condition you have described.					
	9.	Remove the TRIP (NQ) fuses.	REMOVE TRIP fuse block (may insert upside down, back into receiver or place on bottom of upper cubicle).		
<u>CUE:</u> The component is in the condition you have described.					
	10.	Verify LOCAL CONTROL switch green OPEN light on ACB front panel is OFF.	GREEN light extinguished.		
<u>CUE:</u> The component is in the condition you have described.					
*	11.	Slide open RACKING SCREW shutter and insert racking wrench.	SLIDES OPEN Racking Screw shutter and INSERTS racking wrench.		
<u>CUE:</u> The component is in the condition you have described.					
*	12.	Rotate racking wrench counter clockwise until stops are reached <u>AND</u> ACB position indicates TEST.	ROTATES racking wrench until stops are reached <u>AND</u> Indicator indicates TEST.		
<u>CUE:</u> The component is in the condition you have described.					

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
*	13.	Depress Position Stop Release (foot pedal).	DEPRESSES foot pedal.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.						
*	14.	Continue rotating racking wrench counter clockwise until ACB discharges and ACB position indicates DISCHARGE.	ROTATES racking wrench until stops are reached and indicator indicates DISCHARGE.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.						
	15.	Continue rotating racking wrench until position indicator shows DISC.	Indicator indicates DISC	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.						
	16.	Remove racking wrench and close RACKING SCREW shutter.	Racking wrench REMOVED and Racking Screw shutter CLOSED	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.						
	17.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.						
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO ☐ SRO ☐

JPM Title: AUX POWER - RACK OUT 4KV BREAKER

Revision Number: 10

JPM Number: S-N-k

Task Number and Title: 262LN004-05, Discuss the function of the in-plant control devices for Circuit Breaker Control, including circumstances during which they would be operated

K/A Number and Importance: 262001.G.4.35 3.8 / 4.0

Suggested Testing Environment: In-Plant

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

Testing Method: ☒ Simulate ☐ Perform
Alternate Path: ☐ Yes ☒ No
SRO Only: ☐ Yes ☒ No

Time Critical: ☐ Yes ☒ No

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

References: DOP 6500-04, rev 43

EVALUATION SUMMARY:

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

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. A fire in the 2B SDC pump motor has been reported by the U2 EO, while performing rounds.

INITIATING CUE

1. The Unit Supervisor has directed you to rack out the 4 KV breaker for the 2B Shutdown Cooling Pump, to the DISC position and leave it in the cubicle, per DOP 6500-04, step G.1.
2. Inform the Unit Supervisor when the task is complete.