

# Exelon Nuclear

## Job Performance Measure

REVIEW ACCEPTANCE CRITERIA MET FOR THE ACCOUSTIC MONITOR

JPM Number: A-N-1-R

Revision Number: 04

Date: 12/14

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

**Revision 02** Bank JPM.

**Revision 03** Revised for ILT 09-1 NRC Exam.

**Revision 04** Revised for ILT 14-1 NRC Exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.

### **DOCUMENT PREPARATION**

1. Mark up a copy of DOS 0250-06, Acoustic Monitor Temperature Detector Instrument (Channel) Check.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. You are the Unit 3 Aux NSO.
2. DOS 0250-06 was performed last shift, for the Acoustic Monitor / Temperature Detector Operability Test.
3. The off-going NSO was unable to verify the paperwork, and has turned it over to you.
4. The NSO reported all surveillance requirements were within specifications

### **INITIATING CUE**

1. Verify ALL requirements are within specifications, and paperwork is correct.

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**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.

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## Job Performance Measure (JPM)

**JPM Start Time:** \_\_\_\_\_

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<b><u>NOTE:</u></b>				
Provide the Examinee with the supplied copy of DOS 0250-06.				
*	1. Examinee should identify data sheet valve 203-3C threshold volt is out of spec.	Identifies out of spec value.	_____	_____
*	2. Examinee should identify data sheet valve 203-4A threshold volt is out of spec.	Identifies out of spec value.	_____	_____
*	3. Examinee should identify data sheet valves 203-3B and 203-4G discharge temps are > 100°F difference.	Identifies 2 temperatures > 100°F difference.	_____	_____
	4. Examinee should either report discrepancies to Unit Supervisor OR sign the "Calculations Verified By" line.	Reports discrepancies to Unit Supervisor OR signs the "Calculations Verified By" line.	_____	_____
<b><u>CUE:</u></b>				
Acknowledge report of task completion.				
		END		

**JPM Stop Time:** \_\_\_\_\_

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: RO

JPM Title: REVIEW ACCEPTANCE CRITERIA MET FOR THE ACCOUSTIC MONITOR

Revision Number: 04

JPM Number: A-N-1-R

Task Number and Title: 299L080 Perform the administrative duties for conduct of surveillance, special, or complex procedures.

K/A Number and Importance: Generic.2.1.7 4.4 / 4.7

**Suggested Testing Environment:** Simulator

**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:** DOS 0250-06, rev 14

### **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 the Unit 3 Aux NSO.
2. DOS 0250-06 was performed last shift, for the Acoustic Monitor / Temperature Detector Operability Test.
3. The off-going NSO was unable to verify the paperwork, and has turned it over to you.
4. The NSO reported all surveillance requirements were within specifications

### **INITIATING CUE**

1. Verify ALL requirements are within specifications, and paperwork is correct.

# Exelon Nuclear

## Job Performance Measure

PERFORM ASSIST NSO DAILY LOG FOR  
U1 AND 2/3 CONDENSATE STORAGE TANKS INVENTORY CALCULATIONS

JPM Number: A-N-2-R

Revision Number: 01

Date: 12/14

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

**Revision 00** Modified for 2013 Cert Exam.

**Revision 01** Modified for 14-1 NRC Exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. Reset the simulator to any IC, with the following conditions:
  - a. 2/3A CST level is 15 ft.
  - b. 2/3B CST level is 16 ft.

### **DOCUMENT PREPARATION**

1. Provide a clean copy of Appendix B, ASSIST NSO DAILY SURVEILLANCE LOG, Attachment A, page 19.
2. Photo of the 2/3 CST level meters on the 902-6 panel.
3. Calculator
4. Answer Key

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. You are the Unit 2 Aux NSO.
2. Both units are operating at near rated power.
3. Today is Monday shift 1.
4. Unit 1A CST level is 26%.

### **INITIATING CUE**

1. The Unit Supervisor has directed you to complete Appendix B, Attachment A, page 19, for the Unit 1 and 2/3 Condensate Storage Tanks Inventory.
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.

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## Job Performance Measure (JPM)

JPM Start Time: \_\_\_\_\_

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<b><u>NOTE:</u></b>					
Provide the examinee with the supplied copy of Appendix B, Attachment A.					
Do <b><u>NOT</u></b> provide the supplied photo until correct meters are identified.					
	1.	Examinee identifies and utilizes the Monday shift 1 slot.	Fills out all values on the Monday shift 1 slot.	_____	_____
*	2.	Records value of 26% for U1A CST in INDICATED LEVEL column.	See attached KEY.	_____	_____
<b><u>CUE:</u></b>					
When examinee locates correct meters, provide the supplied photo of the meters.					
*	3.	Locates meters, on the 902-6 panel, for 2/3A and 2/3B CSTs and records correct value in INDICATED LEVEL column:  2/3A CST <u>15.0</u> 2/3B CST <u>16.0</u>	See attached KEY.	_____	_____
*	4.	Examinee calculates values and records them in CORRECTED LEVEL column:  U1A CST <u>19.0</u> 2/3A CST <u>13.0</u> 2/3B CST <u>14.0</u>	See attached KEY.	_____	_____
*	5.	Examinee calculates values and records them in ACTUAL LEVEL column:  U1A CST <u>38,000</u> 2/3A CST <u>104,000</u> 2/3B CST <u>112,000</u>	See attached KEY.	_____	_____

**Job Performance Measure (JPM)**

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
*	6. Examinee calculates value and records it in TOTAL CST GALLONS block:  Total: <u>254,000</u>	See attached KEY.	_____	_____	_____
*	7. Examinee identifies that TOTAL GALLONS are <260,000 (130,000 per each unit).	Examinee notifies the Unit Supervisor of value and that minimum required inventory is not met.	_____	_____	_____
	8. Informs Unit Supervisor Independent verification is required and task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<b><u>CUE:</u></b> Acknowledge report of task completion.					
			END		

**JPM Stop Time:** \_\_\_\_\_

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: RO

JPM Title: PERFORM ASSIST NSO DAILY LOG FOR U1 AND 2/3 CONDENSATE STORAGE TANKS INVENTORY CALCULATIONS.

Revision Number: 01

JPM Number: A-N-2-R

Task Number and Title: 29800LP013, Perform the duties of a Unit NSO including monitoring the unit, answering the phones and radio, completing logs, surveillances, and daily sheets, and filling out and conducting a shift turnover.

K/A Number and Importance: Generic.2.1.18 3.6 / 3.8

**Suggested Testing Environment:** Simulator

**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:** Appendix B, rev 80

### **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 the Unit 2 Aux NSO.
2. Both units are operating at near rated power.
3. Today is Monday shift 1.
4. Unit 1A CST is 26%.

### **INITIATING CUE**

1. The Unit Supervisor has directed you to complete Appendix B, Attachment A, page 19, for the Unit 1 and 2/3 Condensate Storage Tanks Inventory.
2. Inform the Unit Supervisor when the task is complete.

**Exelon Nuclear**

**Job Performance Measure**

VERIFY VALVE OPERABILITY AND TIMING

JPM Number: A-N-3-R

Revision Number: 00

Date: 12/14

**Developed By:** \_\_\_\_\_  
**Instructor** **Date**

**Approved By:** \_\_\_\_\_  
**Training Department** **Date**

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

Revision 00 New JPM for ILT 14-1 NRC Exam

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

Use any IC that accommodates other JPMs.

This is a table top JPM utilizing Simulator procedures.

Verify the DISACM is available.

### **PROCEDURE PREPARATION**

Mark up a copy of DOS 1600-03, UNIT 2 QUARTERLY VALVE TIMING, as follows:

- Indicate that testing is complete for step I.6. Leave the other steps blank.
- For MO 2-1601-24, enter a close stroke time in the ALERT range of the DISACM.
- For MO 2-1601-23, enter a close stroke time in the REQUIRED ACTION range of the DISACM.
- For ALL other step I.6 valves, enter a time within the ACCEPTABLE range.

Provide a copy of ER-AA-321, Administrative Requirements for Inservice Testing.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

You are the Unit 2 Aux NSO.

An extra NSO just completed surveillance DOS 1600-03, UNIT 2 QUARTERLY VALVE TIMING, step I.6 only at this time. The other steps will be performed later.

### **INITIATING CUE**

Per step H.3.a of DOS 1600-03, UNIT 2 QUARTERLY VALVE TIMING, review the completed portion of the surveillance and report to the Unit Supervisor the results of your review.

**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.

If a CRITICAL step has more than one part, then:

- (Filled bullet) indicates a CRITICAL part of the step.
- (Open bullet) indicates a NON-CRITICAL part of the 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 time clock starts when the candidate acknowledges the initiating cue.

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## Job Performance Measure (JPM)

JPM Start Time: \_\_\_\_\_

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
* 1. Evaluate valve performance by comparing the Actual Stroke Time to the established IST ranges listed in the DISACM.	Reviews Checklist 1, UNIT 2 QUARTERLY VALVE TIMING and determines the following: <ul style="list-style-type: none"> <li>• MO 2-1601-24 stroke close time is in the ALERT range of the DISACM.</li> </ul>	_____	_____	_____
* 2. Evaluate valve performance by comparing the Actual Stroke Time to the established IST ranges listed in the DISACM.	Reviews Checklist 1, UNIT 2 QUARTERLY VALVE TIMING and determines the following: <ul style="list-style-type: none"> <li>• MO 2-1601-23 stroke close time is in the REQUIRED ACTION range of the DISACM.</li> </ul>	_____	_____	_____
3. Notify Unit Supervisor of above results	Notifies Unit Supervisor of above results	_____	_____	_____
<b>Cue:</b> As the Unit Supervisor, direct examinee to determine required actions per ER-AA-321.				
4. Per Acceptance Criteria, refer to ER-AA-321, Attachment 2, and determine that MO 2-1601-24 should be restroked.	Per Acceptance Criteria, refers to ER-AA-321, Attachment 2, and determines that MO 2-1601-24 should be restroked. Write an IR & have engineer evaluation.	_____	_____	_____
* 5. Per Acceptance Criteria and ER-AA-321, Attachment 2, determine that MO 2-1601-23 should be declared inoperable.	Per Acceptance Criteria and ER-AA-321, Attachment 2, determines that MO 2-1601-23 should be declared inoperable.	_____	_____	_____

**Job Performance Measure (JPM)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
6. Notify Unit Supervisor of above results	Notifies Unit Supervisor of above results: <ul style="list-style-type: none"> <li>• MO 2-1601-24 should be restroked.</li> <li>• MO 2-1601-23 should be declared inoperable.</li> </ul>	_____	_____	_____
7. Notify the Unit Supervisor that step H.3.a is complete and the task is complete.	8. Notifies the Unit Supervisor that step H.3.a is complete and the task is complete.	_____	_____	_____
<b>Cue:</b> As the Unit Supervisor, acknowledge report.				
<b>END</b>				

**JPM Stop Time:** \_\_\_\_\_

**Job Performance Measure (JPM)**

**Operator's Name:** \_\_\_\_\_

**Job Title:** RO  SRO

**JPM Title:** VERIFY VALVE OPERABILITY AND TIMING

**JPM Number:** A-N-3-R                      **Revision Number:** 00

**Task Number and Title:** 298L057, Perform an "operability check" of the following pieces of equipment: MO/AO Valves.

**K/A Number and Importance:** 2.2.14                      3.9/4.3

**Suggested Testing Environment:** Simulator

**Actual Testing Environment:**  Simulator    Plant             Control Room

**Testing Method:**  Simulate            **Alternate Path:**  Yes             No  
 Perform                                      **SRO Only:**  Yes             No

**Time Critical:**     Yes             No

**Estimated Time to Complete:** 15 minutes            **Actual Time Used:** \_\_\_\_\_ minutes

**References:** DOS 1600-03, R 51, UNIT 2 QUARTERLY VALVE TIMING  
Dresden In-Service Testing Acceptance Criteria Manual (DISACM)  
ER-AA-321

**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**

You are the Unit 2 Aux NSO.

An extra NSO just completed surveillance DOS 1600-03, UNIT 2 QUARTERLY VALVE TIMING, step I.6 only at this time. The other steps will be performed later.

### **INITIATING CUE**

Per step H.3.a of DOS 1600-03, UNIT 2 QUARTERLY VALVE TIMING, review the completed portion of the surveillance and report to the Unit Supervisor the results of your review.

**Exelon Nuclear**

**Job Performance Measure**

DETERMINE RADIOLOGICAL BRIEF AND PROTECTIVE CLOTHING  
REQUIREMENTS

JPM Number: A-N-4-R

Revision Number: 00

Date: 12/14

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

**Revision 00** New for Dresden ILT 14-1 exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.

### **DOCUMENT PREPARATION**

1. Provide a copy of RP-AA-460
2. Copy of survey map for Unit 3 Reactor Building, El. 545' RWCU Pump Room
3. Copy of RWP# 10004555, U3 RWCU pump room.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. You are the Unit 3 Aux NSO.
2. Following maintenance, it was reported that valve 3-1201-128A, 3A RWCU RECIRC PMP SUCT VLV, appeared to have packing leakage.
3. The Unit Supervisor is unable to obtain any more information regarding the packing leakage.

### **INITIATING CUE**

1. The Unit Supervisor has directed you to determine the radiological controls needed (if any) to investigate the leakage on 3-1201-128A.
2. Inform the Unit Supervisor when the task is complete.

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**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.

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## Job Performance Measure (JPM)

JPM Start Time: \_\_\_\_\_

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<b><u>NOTE:</u></b>				
<p>WHEN the examinee asks RP for the survey map of the area, THEN provide the map attached to this JPM.</p> <p>WHEN the examinee asks RP for the RWP for the job THEN provide RWP 10004555 attached to this JPM.</p> <p>If the examinee asks for the procedure for Control of High and Very High Radiation Areas, RP-AA-460, provide them with a copy.</p>				
*	1.	Examinee reviews RWP and survey map and determines protective clothing requirement.	Determines the following minimum protective clothing requirements: Zone 2 Protective Clothing	_____
			<ul style="list-style-type: none"> <li>• Modesty garments</li> <li>• Skull cap</li> <li>• Full Protective Clothing</li> <li>• shoe covers</li> <li>• Shoe rubbers</li> <li>• Glove liners</li> <li>• Rubber gloves</li> </ul>	_____
<b><u>CUE:</u></b>				
If asked about wearing only "mins" respond: "No. Mins are not authorized."				
*	2.	Examinee reviews RWP and RP-AA-460 and determines briefing requirements to enter a Locked High Rad Area (IAW RP-AA-460 step 4.4.3)	Determines a Locked High Rad Area brief from Radiation Protection is required.	_____
	3.	Informs the Unit Supervisor of clothing and briefing requirements	Informs Unit Supervisor of the information in steps 1 and 2.	_____
	4.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____
<b><u>CUE:</u></b>				
Acknowledge report of task completion.				
		END		

**Job Performance Measure (JPM)**

**JPM Stop Time: \_\_\_\_\_**

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: RO

JPM Title: Determine Radiological Brief and protective clothing requirements

Revision Number: 00

JPM Number: A-N-4-R

Task Number and Title: 299L029, Conduct shift operations

K/A Number and Importance: Generic.2.3.7 3.5 / 3.6

**Suggested Testing Environment:** Simulator

**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:** RP-AA-460 Rev. 26

### **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 the Unit 3 Aux NSO.
2. Following maintenance, it was reported that valve 3-1201-128A, 3A RWCU RECIRC PMP SUCT VLV, appeared to have packing leakage.
3. The Unit Supervisor is unable to obtain any more information regarding the packing leakage.

### **INITIATING CUE**

1. The Unit Supervisor has directed you to determine the radiological controls needed (if any) to investigate the leakage on 3-1201-128A.
2. Inform the Unit Supervisor when the task is complete.

# Exelon Nuclear

## Job Performance Measure

Reportability Determination

JPM Number: A-N-1-S

Revision Number: 01

Date: 01/15

Developed By: \_\_\_\_\_  
Developer Date

Validated By: \_\_\_\_\_  
SME or Instructor Date

Review By: \_\_\_\_\_  
Operations Representative Date

Approved By: \_\_\_\_\_  
Training Department Date

**Job Performance Measure (JPM)**

**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 8 and 12 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. Verify the procedure(s) referenced by this JPM reflects the current revision:  
 Procedure LS-AA-1120 Rev: 18  
 Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
 Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 9. Verify cues both verbal and visual are free of conflict.
- \_\_\_\_\_ 10. Verify performance time is accurate
- \_\_\_\_\_ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- \_\_\_\_\_ 12. 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

**Job Performance Measure (JPM)**

**Revision Record (Summary)**

**Revision 00**      New JPM created for 2013 LORT Exam.

**Revision 01**      Revised for use on 2015 ILT Exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

Any IC to accommodate other JPMs.

This is a table top JPM utilizing Simulator procedures.

## Job Performance Measure (JPM)

### INITIAL CONDITIONS

An event has occurred at Dresden resulting in the following conditions:

- A worker has been injured.
- The individual is contaminated, and must be transported to the hospital immediately.
- You are the Unit Supervisor.

### INITIATING CUE

1. Determine the Reportability requirements, including the Event Classification and the Time Limit of any Notifications or Reports.

-----  
**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.  
 -----

**Operator Fundamentals:** During this JPM, the evaluator should look at the Operators performance of the task in regards to the following SER 3-05 Operator Fundamentals.

#### Monitoring Plant Conditions and Indications Closely

- Know and monitor critical parameters
- Understand limitations/design of indications
- Use multiple indications
- Give attention to detail
- Uses procedures, clearances, or other documents to change plant configuration
- Do not deviate from procedures
- Uses error reduction techniques effectively
- Have a low problem threshold

**Job Performance Measure (JPM)**

**JPM Start Time:** \_\_\_\_\_

<b>PERFORMANCE CHECKLIST</b>	<b>STANDARDS</b>	<b>SAT</b>	<b>UNSAT</b>	<b>Comment #</b>
*1. Determines the event is reportable per RAD 1.6	Determines the event is reportable per RAD 1.6 Transport of contaminated person to Medical Facility	_____	_____	_____
*2. Determines the time limit to make a phone report is 8 hours to NRC	Determines the time limit to make a phone report is 8 hours to NRC.	_____	_____	_____
<b>END</b>				

**JPM Stop Time:** \_\_\_\_\_



**Job Performance Measure (JPM)**

**INITIAL CONDITIONS**

An event has occurred at Dresden resulting in the following conditions:

- A worker has been injured.
- The individual is contaminated, and must be transported to the hospital immediately.
- You are the Unit Supervisor.

**INITIATING CUE**

2. Determine the Reportability requirements, including the Event Classification and the Time Limit of any Notifications or Reports.
-

# Exelon Nuclear

## Job Performance Measure

DETERMINATION OF ON LINE RISK

JPM Number: A-N-2-S

Revision Number: 00

Date: 01/15

Developed By: \_\_\_\_\_

Instructor

\_\_\_\_\_

Date

Approved By: \_\_\_\_\_

Facility Representative

\_\_\_\_\_

Date

# **Job Performance Measure (JPM)**

## **Revision Record (Summary)**

**Revision 00** New JPM for 2015 NRC exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. Simulator Center Desk computer cleared and available.

### **DOCUMENT PREPARATION**

1. None.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. You are the Unit 3 Unit Supervisor.
2. Unit 2 and Unit 3 are at near rated power.
3. The 345kv BT CB 8-15 has failed open and will take 2 days to repair.
4. The U3 Isolation Condenser is scheduled to come OOS the next shift.

### **INITIATING CUE**

1. The Shift Manager requests that you run Paragon to determine the current On- line Risk;  
  
AND,
2. Determine the fire risk if the Isolation Condenser work is allowed.

-----  
**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
<b><u>NOTE:</u></b>					
Have center desk computer up and on the desktop screen					
	1. Enter Paragon.	Clicks on the ICON for Paragon.	_____	_____	_____
<b><u>CUE:</u></b>					
When asked login is <b>simcr</b> , and no password is required					
	2. Select Operators Module	Selects Operators Module when 3 options are on screen			
	3. Selects Switchyard Tab, then significant breakers.	Clicks on Switchyard tab and then clicks on significant breakers.	_____	_____	_____
*	4. Select OCB 8-15 and selects unavailable.	Clicks on OCB 8-15, then clicks on unavailable,	_____	_____	_____
*	5. Select 'OK'. Determine that On-line is YELLOW.	Runs program identifies On-line risk is YELLOW.	_____	_____	_____
	6. Select Primary System Tab.	Clicks on Primary System Tab.	_____	_____	_____
*	7. Select Isolation Condenser, then unavailable.	Clicks on Isolation Condenser, then clicks on unavailable.	_____	_____	_____
*	8. Select 'OK'. Determine that fire risk is BLUE if Isolation Condenser is taken OOS.	Runs program and identifies fire risk is BLUE if Isolation Condenser is taken OOS.	_____	_____	_____

### Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
9.	Report to Shift Manager that current On-Line Risk is YELLOW and fire risk will be BLUE if the Isolation Condenser work is allowed.	Reports to Shift Manager that current On-Line Risk is YELLOW and fire risk will be BLUE if the Isolation Condenser work is allowed.	_____	_____	_____
<b>CUE:</b> Acknowledge the report					
END					

**JPM Stop Time:** \_\_\_\_\_

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: SRO

JPM Title: REVIEW OFF-SITE POWER SOURCES AVAILABLE PAPERWORK

Revision Number: 00

JPM Number: A-N-2-S

Task Number and Title: CM198081 Determine on line risk and protected pathway equipment per WC  
-AA-101, OP-AA-117, and OP-DR-108-117-1001.

K/A Number and Importance: Generic.2.1.19 3.9/3.8

**Suggested Testing Environment:** Simulator

**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:** 15 minutes **Actual Time Used:** \_\_\_\_\_ minutes

**References:** WC-AA-101

### **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 the Unit 3 Unit Supervisor.
2. Unit 2 and Unit 3 are at near rated power.
3. The 345kv BT CB 8-15 has failed open and will take 2 days to repair.
4. The U3 Isolation Condenser is scheduled to come OOS the next shift.

### **INITIATING CUE**

1. The Shift Manager request that you run Paragon to determine current On-line Risk;

AND,

2. Determine the fire risk if the Isolation Condenser work is allowed.

**Exelon Nuclear**

**Job Performance Measure**

VERIFY REVERSAL OF EDG COOLING WATER FLOW SURVEILLANCE

JPM Number: A-N-3-S

Revision Number: 03

Date: 03/15

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

**Revision 01** Bank JPM.

**Revision 02** Revised for 2010 NRC exam.

**Revision 03** Revised for 2015 NRC exam

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.

### **DOCUMENT PREPARATION**

1. Provide a marked up copy of DOS 6600-02.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. You are the Unit 2 Unit Supervisor.
2. DOS 6600-02 was performed last shift, for the U2 Diesel Generator Cooling Water Flow Reversal.
3. The off-going Unit Supervisor was unable to verify the paperwork, and has turned it over to you.
4. The NLO reported all surveillance requirements were within specifications.

### **INITIATING CUE**

1. Perform calculation verification and ensure paperwork is correct.
2. Inform me 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
<b><u>NOTE:</u></b>				
Provide the examinee with the provided copy of DOS 6600-02.				
*	1.	Candidate should identify step I.1.e has a mathematical error.	Identifies differential pressure should read 4.	____
*	2.	Candidate should identify step I.1.w OR step I.1.v is signed off as verified dP of <6 (actual is 7).	Identifies incorrect verification of dP <6.	____
*	3.	Candidate should identify that steps I.1.ab have been initialed by the same person performing the surveillance and were NOT independently verified.	Identifies step NOT independently verified.	____
	4.	Notify Unit Supervisor of discrepancies.	Notifies Unit Supervisor, may dispatch Operators to verify/correct issues, also may initiate IR.	____
<b><u>CUE:</u></b>				
Acknowledge report of task completion.				
END				

JPM Stop Time: \_\_\_\_\_

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: SRO

JPM Title: VERIFY REVERSAL OF EDG COOLING WATER FLOW SURVEILLANCE

Revision Number: 03

JPM Number: A-N-3-S

Task Number and Title: 299L080 Perform the administrative duties for conduct of surveillance, special, or complex procedures

K/A Number and Importance: Generic.2.2.12 3.7 / 4.1

**Suggested Testing Environment:** Simulator

**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:** DOS 6600-02, rev 20

### **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 the Unit 2 Unit Supervisor.
2. DOS 6600-02 was performed last shift, for the U2 Diesel Generator Cooling Water Flow Reversal.
3. The off-going Unit Supervisor was unable to verify the paperwork, and has turned it over to you.
4. The NLO reported all surveillance requirements were within specifications.

### **INITIATING CUE**

1. Perform calculation verification and ensure paperwork is correct.
2. Inform me when the task is complete.

# Exelon Nuclear

## Job Performance Measure

SELECT PERSONNEL FOR RADIATION WORK

JPM Number: A-N-4-S

Revision Number: 00

Date: 01/15

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

## **Job Performance Measure (JPM)**

### **Revision Record (Summary)**

**Revision 00** Modified JPM for ILT 12-1 (2013-301) NRC Exam.

**Revision 01** Revised for ILT 14-1 NRC Exam.

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.

### **DOCUMENT PREPARATION**

1. Markup a copy of an RWP for the Unit 3 RWCU Pump Room.
2. Markup a survey map for the Unit 3 RWCU Pump Room.
3. Clean copy of RP-AA-203.

## Job Performance Measure (JPM)

### INITIAL CONDITIONS

1. You are a Unit Supervisor and will be briefing NLOs to perform a Clearance Order First Hang in the Unit 3 RWCU Pump Room under RWP 10004555.
2. Five NLOs are available this shift.
  - None of the five have received dose at any location other than Dresden Station.
  - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	DDE dose received on RWP 10004555 <u>Today</u>	Annual TEDE dose <u>Prior to Shift</u>
Alex	40 mrem	1550 mrem
Dan	5 mrem	1950 mrem
Mike	0 mrem	1920 mrem
Sue	45 mrem	1850 mrem
Tom	10 mrem	1750 mrem

4. The total expected stay time for each NLO will be 60 minutes. Based on past job history, it will breakdown as follows:
  - 45 minutes total in the area near the following **two** valves:
    - 3-1201-138 RWCU Aux Pump Suction (at RWCU Aux Pump)
    - 3-1201-139 RWCU Aux Pump Discharge (at RWCU Aux Pump)
  - 15 minutes total in the area near the following **one** valve:
    - 3-1201-128A 'A' RWCU Pump Suction (at 'A' RWCU Pump)

### INITIATING CUE

1. CALCULATE the expected dose for the work in RWCU Pump Room. DETERMINE which NLO(s) CAN and which NLO(s) CAN NOT be assigned to perform the task. EXPLAIN the basis for your determination.
-

## **Job Performance Measure (JPM)**

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

### **Information For Evaluator's Use:**

UNSAT requires written comments on respective step.

- \* Denotes critical steps.
- 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><b><u>NOTE:</u></b></p> <p>Provide the examinee with the supplied copy of the RWP and survey map of the RWCU pump room and, if requested, the supplied copy of RP-AA-203.</p> <p>The following steps may be performed in any order.</p>				
1.	Reviews Survey Maps to determine area dose rates.	Reviews the survey maps and determines area dose rates to be 40 mr/hr for the first group of 2 valves and 140 mr/hr for the remaining valve.	_____	_____
<p><b><u>NOTE:</u></b></p> <p>The following calculations should be made:</p> <p style="margin-left: 40px;">2 valve clearance projected dose = 0.75 hr x 40 mr/hr = <b>30 mrem</b></p> <p style="margin-left: 40px;">1 valve clearance projected dose = 0.25 hr x 140 mr/hr = <b>35 mrem</b></p> <p style="margin-left: 40px;">Total projected dose for the job = 40 mrem + 30 mrem = <b>65 mrem</b></p>				
*	2. Calculates that the projected dose that will be received for the task is 65 mrem.	Determines the NLO's will receive 30 mrem on the first 2 valves and 35 on the next valve.	_____	_____
<p><b><u>CUE:</u></b></p> <p>IF the candidate inquires whether or not any of the NLOs has received permission to exceed any dose limits, respond: "None of the Non Licensed Operators have received permission to exceed any limits".</p>				
<p><b><u>NOTE:</u></b></p> <p>The following steps may be performed in any order.</p>				
*	3. Determines that <b>ALEX CAN NOT</b> perform the job because he would exceed the 100 mrem dose alarm on RWP 10004555.	Alex's total daily dose on RWP 10004555 would be <b><u>105 mrem.</u></b>	_____	_____

## Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
*	4.	Determines that <b>Dan CAN NOT</b> perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Dan's total Annual dose would be <b><u>2020 mrem.</u></b>	_____	_____	_____
*	5.	Determines that Mike CAN perform the job because no limits will be exceeded.	Mike's total RWP daily dose and Annual dose will remain below the limits.	_____	_____	_____
*	6.	Determines that <b>Sue CAN NOT</b> perform the job because she would exceed the 100 mrem dose alarm on RWP 10004555.	Sue's total daily dose on RWP 10004555 would be <b><u>110 mrem.</u></b>	_____	_____	_____
*	7.	Determines that Tom CAN perform the job because no limits will be exceeded.	Tom's total RWP daily dose and Annual dose will remain below the limits.	_____	_____	_____
			END			

JPM Stop Time: \_\_\_\_\_

## Job Performance Measure (JPM)

Operator's Name: \_\_\_\_\_

Job Title: SRO

JPM Title: SELECT PERSONEL FOR RADIATION WORK

Revision Number: 01

JPM Number: A-N-4-S

Task Number and Title: 29900LK119, Discuss the items to be considered prior to work authorization

K/A Number and Importance: Generic.2.3.13 3.4 / 3.8

**Suggested Testing Environment:** Simulator

**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:** RP-AA-203, rev 03

### **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)

# KEY

**EVALUATOR:** The candidate must determine that dose for the task will be 65 mrem and determine that only two NLOs can receive the dose, necessary to complete the task. They are Mike and Tom. See the table below for projected job dose, 24 hour total dose on RWP 10004555, and total Annual TEDE dose for each Operator.

Calculation:

2 valves clearance (at RWCU Aux Pump) projected dose =  $0.75 \text{ hr} \times 40 \text{ mr/hr} =$   
30mrem

1 valve clearance (at 'A' RWCU Pump) projected dose =  $0.25\text{hr} \times 140 \text{ mr/hr} =$   
35mrem

$30\text{mrem} + 35 \text{ mrem} =$  65 mrem projected job dose for clearance order hanging

Name	DDE dose received on RWP 10004555 today	Annual TEDE dose as of Midnight To Date	Projected dose on RWP 10004555 for the 24 hour period	Projected Annual TEDE (including all dose from last 24 hours)
Alex	40 mrem	1550 mrem	(40 + 65 =) <b>105 mrem</b>	(1550 + 105 =) <u>1655 mrem</u>
Dan	5 mrem	1950 mrem	(5 + 65 =) <u>70 mrem</u>	(1950 + 70 =) <b>2020 mrem</b>
Mike	0 mrem	1920 mrem	(0 + 65 =) <u>65 mrem</u>	(1920 + 65 =) <u>1985 mrem</u>
Sue	45 mrem	1850 mrem	(45 + 65 =) <b>110 mrem</b>	(1850 + 110 =) <u>1960 mrem</u>
Tom	10 mrem	1750 mrem	(10 + 65 =) <u>75 mrem</u>	(1750 + 75 =) <u>1825 mrem</u>

The **bolded** values in the table exceed the applicable Company, RWP, or 10CFR limit.

## Job Performance Measure (JPM)

### INITIAL CONDITIONS

1. You are a Unit Supervisor and will be briefing NLOs to perform a Clearance Order First Hang in the Unit 3 RWCU Pump Room under RWP 10004555.
2. Five NLOs are available this shift.
  - None of the five have received dose at any location other than Dresden Station.
  - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	DDE dose received on RWP 10004555 <u>Today</u>	Annual TEDE dose <u>Prior to Shift</u>
Alex	40 mrem	1550 mrem
Dan	5 mrem	1950 mrem
Mike	0 mrem	1920 mrem
Sue	45 mrem	1850 mrem
Tom	10 mrem	1750 mrem

4. The total expected stay time for each NLO will be 60 minutes. Based on past job history, it will breakdown as follows:
  - 45 minutes total in the area near the following **two** valves:
    - 3-1201-138 RWCU Aux Pump Suction (at RWCU Aux Pump)
    - 3-1201-139 RWCU Aux Pump Discharge (at RWCU Aux Pump)
  - 15 minutes total in the area near the following **one** valve:
    - 3-1201-128A 'A' RWCU Pump Suction (at 'A' RWCU Pump)

### INITIATING CUE

1. CALCULATE the expected dose for the work in RWCU Pump Room. DETERMINE which NLO(s) CAN and which NLO(s) CAN NOT be assigned to perform the task. EXPLAIN the basis for your determination.

# Exelon Nuclear

## Job Performance Measure

DETERMINE EMERGENCY CLASSIFICATION AND FILL OUT NARS FORM

JPM Number: A-N-5-S

Revision Number: 01

Date: 01/15

Developed By: \_\_\_\_\_  
Instructor Date

Approved By: \_\_\_\_\_  
Facility Representative Date

# **Job Performance Measure (JPM)**

## **Revision Record (Summary)**

**Revision 00** New JPM

**Revision 01** Revised for ILT 14-1 NRC

## **Job Performance Measure (JPM)**

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.

### **DOCUMENT PREPARATION**

1. Screenshot of meteorological data.

## **Job Performance Measure (JPM)**

### **INITIAL CONDITIONS**

1. This is a time critical JPM.
2. You are the Shift Emergency Director.
3. Unit 2 was operating at near rated conditions when a transient occurred causing ALL high pressure feed to be lost and RPV water level dropped to -20 inches.
4. An automatic scram did NOT occur.
5. The Unit 2 NSO initiated a manual scram and initiated ARI.
6. One (1) minute after the manual scram was initiated, the following conditions exist:
  - SBLC is injecting with one pump.
  - Drywell pressure is 2.5 psig and steady.
  - Drywell temperature is 138°F and steady.
  - Torus temperature is 117°F and rising slowly.
  - RPV Pressure is 920 psig and dropping slowly.
  - Reactor power is 10% and steady on the APRMs.
  - RPV water level is -170 inches and dropping rapidly.

### **INITIATING CUES**

1. Determine EAL(s) (ignore discretionary EALs) and complete a NARS form. Give the NARS form to the WEC Supervisor, who will make the state notification.

## **Job Performance Measure (JPM)**

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

### **Information For Evaluator's Use:**

UNSAT requires written comments on respective step.

- \* Denotes critical steps.
- 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><b><u>NOTE:</u></b></p> <p>Examinee locates a copy of Radiological Emergency Plan Annex for Dresden EP-AA-1004 charts.            Exam NARS forms are in the bottom drawer of file cabinet.            If Required, Provide the supplied screen shot of the meteorological data.</p>				
*	1.	Determines a classification of SITE EMERGENCY, due to a the failure of an automatic AND manual scram AND there is an indication of an extreme challenge to the ability to cool the core.	Determines highest classification is a SITE EMERGENCY per EAL <b>MS2</b> (15 minute requirement).	_____
<p><b><u>NOTE:</u></b></p> <p>Determines classification start time _____ and stop time _____ .            (15 minute limit)</p>				
*	2.	Properly fills out NARS form.	See attached key for the areas that must be filled out correctly.	_____
<p><b><u>NOTE:</u></b></p> <p>Fill out NARS form start time (when declaration completed) _____ and stop time _____ .            (13 minute limit)</p>				
		END		

JPM Stop Time: \_\_\_\_\_

## **Job Performance Measure (JPM)**

Operator's Name: \_\_\_\_\_

Job Title: SRO

JPM Title: DETERMINE EMERGENCY CLASSIFICATION and fill out nars form

Revision Number: 01

JPM Number: A-N-5-S

Task Number and Title: : 295L160, Given a plant in an off normal condition, determine the EP classification

K/A Number and Importance: Generic.2.4.44 2.4 / 4.4

**Suggested Testing Environment:** Simulator

**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:** 15 (declare) 13 (fill out) minutes

**Actual Time Used:** \_\_\_\_\_minutes

**References:** EP-AA-1004, Addendum 3, Rev 00

### **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. This is a time critical JPM.
2. You are the Shift Emergency Director.
3. Unit 2 was operating at near rated conditions when a transient occurred causing ALL high pressure feed to be lost and RPV water level dropped to - 20 inches.
4. An automatic scram did NOT occur.
5. The Unit 2 NSO initiated a manual scram and initiated ARI.
6. One (1) minute after the manual scram was initiated, the following conditions exist:
  - SBLC is injecting with one pump.
  - Drywell pressure is 2.5 psig and steady.
  - Drywell temperature is 138°F and steady.
  - Torus temperature is 117°F and rising slowly.
  - RPV Pressure is 920 psig and dropping slowly.
  - Reactor power is 10% and steady on the APRMs.
  - RPV water level is -170 inches and dropping rapidly.

### **INITIATING CUES**

1. Determine EAL(s) (ignore discretionary EALs) and complete a NARS form. Give the NARS form to the WEC Supervisor, who will make the state notification.