

Exelon Nuclear

Job Performance Measure

VERIFY ISO CONDENSER QUARTERLY MAKEUP TEST

JPM Number: A-N-1-R

Revision Number: 03

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 02 Bank JPM.

Revision 03 Revised for 2009 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 DOS 1300-03.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. DOS 1300-03 was performed last shift, for running of the 2/3A Iso Condenser Makeup Pump Quarterly Operability, for the current calendar quarter.
3. Lube and Fuel oil samples were NOT required.
4. The NLO reported all surveillance requirements were within specifications.

INITIATING CUE

1. The Unit Supervisor has directed you to verify all requirements are within specifications, and paperwork is correct.
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 provided copy of DOS 1300-03.				
*	1. Student should identify: <ul style="list-style-type: none"> • Step I.1 (DC VOLTS) is not \geq 25.5 volts • Step I.2 should NOT have been initialed. 	Identifies: <ul style="list-style-type: none"> • Incorrect voltage of 24.5 (correct voltage should be \geq 25.5 volts). • Step was initialed and should not have been. 	_____	_____
*	2. Student should identify step I.2.a should NOT be N/A'd and indicate that EMD should have been notified.	Informs examiner that EMD is required to be notified (may make notification at end of JPM).	_____	_____
*	3. Student should identify step I.18.c (elapsed time) is not correct, because the engine was NOT run for 30 minutes.	Identifies incorrect time of 26 min (correct elapsed time should be a minimum of 30 minutes).	_____	_____
*	4. Student should identify step I.24.b is N/A'd (Damper Control Switch NOT in AUTO).	Identifies incorrect N/A'd step.	_____	_____
	5. Notify Unit Supervisor of discrepancies.	Notifies Unit Supervisor, to verify/correct issues.	_____	_____
<u>CUE:</u>				
Acknowledge report of task completion.				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: VERIFY ISO CONDENSER QUARTERLY MAKEUP TEST

Revision Number: 03

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 1300-03, rev 17

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. DOS 1300-03 was performed last shift, for running of the 2/3A Iso Condenser Makeup Pump Quarterly Operability, for the current calendar quarter.
3. Lube and Fuel oil samples were NOT required.
4. The NLO reported all surveillance requirements were within specifications.

INITIATING CUE

1. The Unit Supervisor has directed you to verify all requirements are within specifications, and paperwork is correct.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

REACTIVATION OF AN SRO LICENSE

JPM Number: A-N-1-S

Revision Number: 02

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 01 Bank JPM.

Revision 02 Revised for 2009 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. Marked up copy of OP-AA-105-102.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Shift Manager.
2. An SRO is in the process of license reactivation.
3. OP-AA-105-102, Attachment 2, Reactivation of License Log, is filled out up to the point of Shift Manager review for the licensee.

INITIATING CUE

1. The Shift Operation Superintendent directs you to “perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and return it to me”.

.....

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 the provided marked up copy of OP-AA-105-102.				
1.	Review OP-AA-105-102, Attachment 2.	Reviews OP-AA-105-102, Attachment 2.	_____	_____
*	2. Check that Hours on Shift are applicable for license reactivation.	Notes that 8 hours listed in the Hours on Shift are for WEC Supervisor which does not count toward the 40 hours required.	_____	_____
*	3. Check that licensee has the required 40 hours.	Determines that licensee does NOT have adequate hours to meet the 40 hour requirement.	_____	_____
4.	Report the results of the review to the Shift Operations Superintendent (SOS).	Returns without signing OP-AA-105-102, Attachment 2 to the SOS. Informs the SOS that the licensee's license CANNOT be reactivated due to insufficient hours on shift.	_____	_____
<u>CUE:</u>				
As the SOS, acknowledge the report.				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: REACTIVATION OF AN SRO LICENSE

Revision Number: 02

JPM Number: A-N-1-S

Task Number and Title: Title: 299L024, Maintain an Active License

K/A Number and Importance: Generic.2.1.4 3.3 / 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: 12 minutes **Actual Time Used:** _____ minutes

References: OP-AA-105-102, rev 09

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 Shift Manager.
2. An SRO is in the process of license reactivation.
3. OP-AA-105-102, Attachment 2, Reactivation of License Log, is filled out up to the point of Shift Manager review for the licensee.

INITIATING CUE

1. The Shift Operation Superintendent directs you to “perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and return it to me”.

Exelon Nuclear

Job Performance Measure

VERIFY STANDBY LIQUID CONTROL HEATER SURVEILLANCE

JPM Number: A-N-2-R

Revision Number: 00

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM developed for 2009 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 DOS 1100-02.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. DOS 1100-02 was performed last shift.
3. The NLO reported all surveillance requirements were within specifications.

INITIATING CUE

1. The Unit Supervisor has directed you to verify all requirements are within specifications, and paperwork is correct.
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 provided copy of DOS 1100-02.				
*	1.	Student should identify step I.4 should NOT have been initialed.	Identifies that step should NOT have been initialed.	____
*	2.	Student should identify step I.9.g should NOT have been N/A'd.	Identifies that step should NOT have been N/A'd.	____
	3.	Notify Unit Supervisor of discrepancies.	Notifies Unit Supervisor, to verify/correct issues.	____
<u>CUE:</u>				
Acknowledge report of task completion.				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: VERIFY STANDBY LIQUID CONTROL HEATER SURVEILLANCE

Revision Number: 00

JPM Number: A-N-2-R

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

K/A Number and Importance: Generic.2.1.18 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: 12 minutes **Actual Time Used:** _____ minutes

References: DOS 1100-02, 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 the Unit 2 Aux NSO.
2. DOS 1100-02 was performed last shift.
3. The NLO reported all surveillance requirements were within specifications.

INITIATING CUE

1. The Unit Supervisor has directed you to verify all requirements are within specifications, and paperwork is correct.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

AUTHORIZE OVERTIME IAW G 82-12 GUIDELINES

JPM Number: A-N-2-S

Revision Number: 01

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Bank JPM.

Revision 01 Revised for 2009 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. Clean copy of LS-AA-119.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. It is Tuesday the 3/10/2009 @ 0800
2. Bob, an NSO has just left the site due to a sudden illness.
3. The only trained and qualified person you are able to contact is Steve Smith, who is on his first regular day off (RDO).
4. Steve is ready and willing to work the overtime and can report for work @ 0900 and will work until 1500.
5. Steve is NOT fatigued, IS mentally alert and FIT FOR DUTY.
6. Steve has worked the following shifts that count towards GL 82012 guidelines so far this week:
 - Wednesday the 4th 16 hours on days and afternoon shift
 - Thursday the 5th 8 hours on days
 - Friday the 6th 12 hours on days and afternoon shift
 - Saturday the 7th 8 hours on days
 - Sunday the 8th 16 hours on days and afternoon shift
 - Monday the 9th 8 hours on days
7. Safety-related work WILL be performed by the NSO during the shift.
8. You are the WEC Supervisor.

INITIATING CUE

1. Determine if you need to authorize Steve Smith to work the overtime in accordance with the applicable procedure and forward the paperwork, if any, to the Shift Manager.

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
NOTE:				
Shift staffing composition may be less than the minimum requirements for a period of time NOT to exceed two hours in order to accommodate unexpected absence of an on duty staff member provided immediate action is taken to restore the shift staff composition to within the minimum requirements.				
1.	Reviews the procedure to determine if any overtime guidelines will be exceeded.	Determines that overtime would result in exceeding 72 hours in a 7 day period.	_____	_____
2.	Reviews the procedure to determine if it allows personnel who will exceed GL 82-12 to work overtime.	Determines that if there are not enough individuals available to fill the required assignments, then trained and qualified individuals who would exceed the overtime guidelines will then be asked to work.	_____	_____
3.	Determines need to initiate Attachment 1 of LS-AA 119.	Determines that prior to an individual performing safety related work while exceeding the GL 82-12 overtime guidelines, the cognizant supervisor shall initiate Attachment 1, "Overtime Guideline Deviation Authorization."	_____	_____
*	4.	Fills out Attachment 1.	Completes columns one through four of Attachment 1, filling in: (1) = Steve Smith (2) = Operations (3) = D – More than 72 hours in a seven day period. (4) = 1300 / 3-10-09	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
*	5.	Fills out Attachment 1.	Fills out a description of safety related work to be accomplished. <i>Example: "NSO Shift responsibilities"</i> or something that conveys this.	_____	_____	_____
*	6.	Fills out Attachment 1.	Provides justification for needed overtime. <i>Example: "Only qualified person available"</i> or something that conveys this.	_____	_____	_____
	7.	Forwards Attachment 1 to the cognizant department head.	Forwards Attachment 1 to Plant Manager or designee.	_____	_____	_____
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: AUTHORIZE OVERTIME IAW G 82-12 GUIDELINES

Revision Number: 01

JPM Number: A-N-2-S

Task Number and Title: 299L057, Perform administrative duties to ensure overtime restrictions are not exceeded.

K/A Number and Importance: Generic.2.1.5 2.9 / 3.9

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: LS-AA-119, rev 07

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. It is Tuesday the 3/10/2009 @ 0800
2. Bob, an NSO has just left the site due to a sudden illness.
3. The only trained and qualified person you are able to contact is Steve Smith, who is on his first regular day off (RDO).
4. Steve is ready and willing to work the overtime and can report for work @ 0900 and will work until 1500.
5. Steve is NOT fatigued, IS mentally alert and FIT FOR DUTY.
6. Steve has worked the following shifts that count towards GL 82012 guidelines so far this week:
 - Wednesday the 4th 16 hours on days and afternoon shift
 - Thursday the 5th 8 hours on days
 - Friday the 6th 12 hours on days and afternoon shift
 - Saturday the 7th 8 hours on days
 - Sunday the 8th 16 hours on days and afternoon shift
 - Monday the 9th 8 hours on days
7. Safety-related work WILL be performed by the NSO during the shift.
8. You are the WEC Supervisor.

INITIATING CUE

1. Determine if you need to authorize Steve Smith to work the overtime in accordance with the applicable procedure and forward the paperwork, if any, to the Shift Manager.

Exelon Nuclear

Job Performance Measure

CALCULATE FLOWS FOR DRYWELL SUMPS

JPM Number: A-N-3-R

Revision Number: 00

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM developed for 2009 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. Clean copy of APPENDIX A, Drywell Floor/Equipment Drain Sump Pumps Flowrate Worksheet.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 NSO.
2. The Unit 2 Floor Drain and Equipment Drain Sumps were pumped by the Aux NSO, with the following data:

	PUMP START	PUMP STOP	STOPWATCH
	Integrator	Integrator	Elapsed Time
2A DWFDS	00250	00556	4 min 15 sec
2B DWFDS	00382	00682	4 min 00 sec
2A DWEDS	00970	01236	3 min 30 sec
2B DWEDS	01007	01277	3 min 45 sec

INITIATING CUE

1. The Unit Supervisor has directed you to perform Appendix A, Drywell Floor/Equipment Drain Sump Pumps Flowrate Worksheet, using the data provided above.
2. Another Operator will verify your calculations.
3. Provide the worksheet to the Unit Supervisor when the task is complete.

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><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of Appendix A, DRYWELL FLOOR/EQUIPMENT DRAIN SUMP PUMPS FLOW RATE WORKSHEET.</p> <p>Steps one (1) through four (4) may be performed in any order.</p>				
*	<p>1. For 2A DWFDS calculates total gallons pumped of 306 (556 – 250) divided by pumping time of 255 seconds (4 min 15 sec) equals a pump flow rate of 72 gpm.</p> <p>$\frac{(306 \text{ gal}) \times (60 \text{ sec})}{(255 \text{ sec})} = \underline{72} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____
*	<p>2. For 2B DWFDS calculates total gallons pumped of 300 (682 – 382) divided by pumping time of 240 seconds (4 min 15 sec) equals a pump flow rate of 75 gpm.</p> <p>$\frac{(300 \text{ gal}) \times (60 \text{ sec})}{(240 \text{ sec})} = \underline{75} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____
*	<p>3. For 2A DWEDS calculates total gallons pumped of 266 (1236 – 970) divided by pumping time of 210 seconds (4 min 15 sec) equals a pump flow rate of 76 gpm.</p> <p>$\frac{(266 \text{ gal}) \times (60 \text{ sec})}{(210 \text{ sec})} = \underline{76} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
* 4. For 2B DWEDS calculates total gallons pumped of 270 (1277 – 1007) divided by pumping time of 225 seconds (4 min 15 sec) equals a pump flow rate of 72 gpm . $\frac{(270 \text{ gal}) \times (60 \text{ sec})}{(225 \text{ sec}) (1 \text{ min})} = \underline{72} \text{ gpm}$	See Key.	_____	_____	_____
5. Notify Unit Supervisor task complete and/or the need for calculations verification.	Notifies Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: CALCULATE FLOWS FOR DRYWELL SUMPS

Revision Number: 00

JPM Number: A-N-3-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.2.2.12 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: 12 minutes **Actual Time Used:** _____ minutes

References: APPENDIX A, rev 114

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 NSO.
2. The Unit 2 Floor Drain and Equipment Drain Sumps were pumped by the Aux NSO, with the following data:

	PUMP START	PUMP STOP	STOPWATCH
	Integrator	Integrator	Elapsed Time
2A DWFDS	00250	00556	4 min 15 sec
2B DWFDS	00382	00682	4 min 00 sec
2A DWEDS	00970	01236	3 min 30 sec
2B DWEDS	01007	01277	3 min 45 sec

INITIATING CUE

1. The Unit Supervisor has directed you to perform Appendix A, Drywell Floor/Equipment Drain Sump Pumps Flowrate Worksheet, using the data provided above.
2. Another Operator will verify your calculations.
3. Provide the worksheet to the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

REVIEW CALCULATED DRYWELL LEAKRATE PAPERWORK

JPM Number: A-N-3-S

Revision Number: 03

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 02 Bank JPM.

Revision 03 JPM revised for 2009 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 Appendix 'A'.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Supervisor.
2. Unit 2 is operating at rated conditions.
3. The Aux NSO has completed the Saturday 1200 Appendix A MODE 1, 2 , AND 3 REACTOR COOLANT LEAKAGE LOG.

INITIATING CUE

1. Complete the Unit Supervisor review of Appendix A MODE 1, 2 , AND 3 REACTOR COOLANT LEAKAGE LOG and identify any Tech Spec requirements.
2. Correct any discrepancies noted (if any).

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>CUE:</u>				
If asked, leak check is in progress and/or Drywell samples and CAM results are trending up.				
1.	Verifies Calculated Floor Drain Leakage is correct.	Determines Floor Drain leakage for SAT 0400 hours should be 4.44 gpm and TOTAL should be 11.70 gpm.	_____	_____
2.	Verifies Calculated Equipment Drain Leakage is correct.	Determines calculated Equipment Drain leakage for FRI 0800 hours should be 8.02 gpm (TOTAL is correct if above is corrected).	_____	_____
If asked to correct Floor Drain leakage numbers and Total leakage, instruct the examinee to make corrections and perform calculation based on numbers given.				
*	3.	Verifies Calculated Floor Drain Leakage is correct.	Determines Floor Drain leakage for FRI 1200 hours should be 5.10 gpm.	_____
*	4.	References Tech Specs.	References Tech Spec 3.4.4 and recognizes <ul style="list-style-type: none"> • >5 gpm unidentified leakage for FRI 1200 hours. Recognizes in Cond A & B.	_____
	5.	Reports discrepancies.	Examinee reports discrepancies noted.	_____
<u>CUE:</u>				
Acknowledge report of task completion.				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: REVIEW CALCULATED DRYWELL LEAKRATE PAPERWORK

Revision Number: 03

JPM Number: A-N-3-S

Task Number and Title: 29900LK108, Discuss the Unit Supervisor's responsibilities for plant operation.

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: 15 minutes **Actual Time Used:** _____ minutes

References: APPENDIX A, rev 114

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 Supervisor.
2. Unit 2 is operating at rated conditions.
3. The Aux NSO has completed the Saturday 1200 Appendix A MODE 1, 2 , AND 3 REACTOR COOLANT LEAKAGE LOG.

INITIATING CUE

1. Complete the Unit Supervisor review of Appendix A MODE 1, 2 , AND 3 REACTOR COOLANT LEAKAGE LOG and identify any Tech Spec requirements.
2. Correct any discrepancies noted (if any).

Exelon Nuclear

Job Performance Measure

SELECT PERSONNEL FOR RADIATION WORK

JPM Number: A-N-4-R

Revision Number: 03

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 02 Bank JPM.

Revision 03 Modified for 2009 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 and survey map for the Unit 3 RWCU Pump Room.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an NSO 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>To Date</u>
Bill	10 mrem	1400 mrem
Lenny	60 mrem	1700 mrem
Jerry	0 mrem	1750 mrem
Scott	10 mrem	1950 mrem
Harry	40 mrem	1850 mrem

4. The total expected stay time for each NLO will be 45 minutes. Based on past job history, it will breakdown as follows:
 - 30 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><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of the RWP and survey map of the RWCU pump room and the 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 50 mr/hr for the first group of 2 valves and 160 mr/hr for the remaining valve.	_____	_____
<p><u>NOTE:</u></p> <p>The following calculations should be made:</p> <p style="margin-left: 40px;">2 valve clearance projected dose = 0.50 hr x 50 mr/hr = 25mrem</p> <p style="margin-left: 40px;">1 valve clearance projected dose = 0.25 hr x 160 mr/hr = 40mrem</p> <p style="margin-left: 40px;">Total projected dose for the job = 40mrem + 25 mrem = 65 mrem</p>				
*	2. Calculates that the projected dose that will be received for the task is 65 mrem.	Determines the NLO's will receive 25 mrem on the first 2 valves and 40 on the next 1.	_____	_____
<p><u>CUE:</u></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><u>NOTE:</u></p> <p>The following steps may be performed in any order.</p>				
*	3. Determines that Bill CAN perform the job because no limits will be exceeded.	Bill's total RWP dose and Annual dose will remain below the limits.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
*	4. Determines that Lenny CAN NOT perform the job because he would exceed the 80 mrem dose alarm on RWP 10004555.	Lenny's total dose on RWP 10004555 would be <u>125 mrem.</u>	_____	_____	_____
*	5. Determines that Jerry CAN perform the job because no limits will be exceeded.	Jerry's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
*	6. Determines that Scott CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Bob's total Annual dose would be <u>2015 mrem.</u>	_____	_____	_____
*	7. Determines that Harry CAN NOT perform the job because he would exceed the 80 mrem dose alarm on RWP 10004555.	Harry's total dose on RWP 10004555 would be <u>105 mrem.</u>	_____	_____	_____
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: SELECT PERSONEL FOR RADIATION WORK

Revision Number: 03

JPM Number: A-N-4-R

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

K/A Number and Importance: Generic.2.3.4 3.2 / 3.7

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: 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 NLO can receive the dose, necessary to complete the task. They are Bill and Jerry. 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 = $0.50 \text{ hr} \times 50 \text{ mr/hr} =$
25mrem

1 valve clearance (at 'A' RWCU Pump) projected dose = $0.25\text{hr} \times 160 \text{ mr/hr} =$
40mrem

$25\text{mrem} + 40 \text{ mrem} =$ 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)
Bill	10 mrem	1400 mrem	(10 + 65 =) <u>75 mrem</u>	(1400 + 65 =) <u>1465 mrem</u>
Lenny	60 mrem	1700 mrem	(60 + 65 =) 125 mrem	(1700 + 65 =) <u>1815 mrem</u>
Jerry	0 mrem	1750 mrem	(0 + 65 =) <u>65 mrem</u>	(1200 + 65 =) <u>1465 mrem</u>
Scott	10 mrem	1950 mrem	(10 + 65 =) <u>75 mrem</u>	(1950 + 65 =) 2015 mrem
Harry	40 mrem	1850 mrem	(40 + 65 =) 105 mrem	(1850 + 65 =) <u>1915 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 an NSO 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>To Date</u>
Bill	10 mrem	1400 mrem
Lenny	60 mrem	1700 mrem
Jerry	0 mrem	1750 mrem
Scott	10 mrem	1950 mrem
Harry	40 mrem	1850 mrem

4. The total expected stay time for each NLO will be 45 minutes. Based on past job history, it will breakdown as follows:
 - 30 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

SELECT PERSONNEL FOR RADIATION WORK

JPM Number: A-N-4-S

Revision Number: 03

Date: 09/08

Developed By: _____
Instructor

Date

Approved By: _____
Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 02 Bank JPM.

Revision 03 Modified for 2009 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 and survey map for the Unit 3 RWCU Pump Room.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the WEC 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>To Date</u>
Bill	10 mrem	1400 mrem
Lenny	60 mrem	1700 mrem
Jerry	0 mrem	1750 mrem
Scott	10 mrem	1950 mrem
Harry	40 mrem	1850 mrem

4. The total expected stay time for each NLO will be 45 minutes. Based on past job history, it will breakdown as follows:
 - 30 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><u>NOTE:</u></p> <p>Provide the Examinee with the attached copy of the RWP and survey map of the RWCU pump room and a copy of RP-AA-203.</p> <p>The following steps may be performed in a any order.</p>				
1.	Reviews Survey Maps to determine area dose rates.	Reviews the survey maps and determines area dose rates to be 50 mr/hr for the first group of 2 valves and 160 mr/hr for the remaining valve.	_____	_____
<p><u>NOTE:</u></p> <p>The following calculations should be made:</p> <p style="padding-left: 40px;">2 valve clearance projected dose = 0.50 hr x 50 mr/hr = 25mrem</p> <p style="padding-left: 40px;">1 valve clearance projected dose = 0.25 hr x 160 mr/hr = 40mrem</p> <p style="padding-left: 40px;">Total projected dose for the job = 40mrem + 25 mrem = 65 mrem</p>				
*	2. Calculates that the projected dose that will be received for the task is 65 mrem.	Determines the NLO's will receive 25 mrem on the first 2 valves and 40 on the next 1.	_____	_____
<p><u>CUE:</u></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><u>NOTE:</u></p> <p>The following steps may be performed in any order.</p>				
*	3. Determines that Bill CAN perform the job because no limits will be exceeded.	Bill's total RWP dose and Annual dose will remain below the limits.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment	
*	4.	Determines that Lenny CAN NOT perform the job because he would exceed the 80 mrem dose alarm on RWP 10004555.	Lenny's total dose on RWP 10004555 would be <u>125 mrem.</u>	_____	_____	_____
*	5.	Determines that Jerry CAN perform the job because no limits will be exceeded.	Jerry's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
*	6.	Determines that Scott CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Bob's total Annual dose would be <u>2015 mrem.</u>	_____	_____	_____
*	7.	Determines that Harry CAN NOT perform the job because he would exceed the 80 mrem dose alarm on RWP 10004555.	Harry's total dose on RWP 10004555 would be <u>105 mrem.</u>	_____	_____	_____
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: SELECT PERSONEL FOR RADIATION WORK

Revision Number: 03

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.2.3.4 3.2 / 3.7

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: 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 NLO can receive the dose, necessary to complete the task. They are Bill and Jerry. 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 = 0.50 hr x 50 mr/hr = 25mrem

1 valve clearance (at 'A' RWCU Pump) projected dose = 0.25hr x 160 mr/hr = 40mrem

25mrem + 40 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)
Bill	10 mrem	1400 mrem	(10 + 65 =) <u>75 mrem</u>	(1400 + 65 =) <u>1465 mrem</u>
Lenny	60 mrem	1700 mrem	(60 + 65 =) 125 mrem	(1700 + 65 =) <u>1815 mrem</u>
Jerry	0 mrem	1750 mrem	(0 + 65 =) <u>65 mrem</u>	(1200 + 65 =) <u>1465 mrem</u>
Scott	10 mrem	1950 mrem	(10 + 65 =) <u>75 mrem</u>	(1950 + 65 =) 2015 mrem
Harry	40 mrem	1850 mrem	(40 + 65 =) 105 mrem	(1850 + 65 =) <u>1915 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 the WEC 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>To Date</u>
Bill	10 mrem	1400 mrem
Lenny	60 mrem	1700 mrem
Jerry	0 mrem	1750 mrem
Scott	10 mrem	1950 mrem
Harry	40 mrem	1850 mrem

4. The total expected stay time for each NLO will be 45 minutes. Based on past job history, it will breakdown as follows:
 - 30 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: 00

Date: 09/08

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM developed for 2009 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. Provided copy of NARS form.
2. 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. Both units were operating at near rated power when a loss of off-site power transient occurred on Unit 2, resulting in the following conditions:
 - An automatic scram signal was received.
 - The NSO attempted a manual scram and ARI, with both being unsuccessful.
 - Reactor power is 25%.
 - RPV pressure is 850 psig.
 - Torus water level is 16 feet.
 - RPV water level is -155 inches.
 - Torus water temperature is 170°F.

INITIATING CUES

1. If an emergency condition exists:
 - Determine EAL(s) (ignore discretionary EALs).
 - Complete a NARS form. Give the NARS form to the WEC Supervisor, who will make the state notification.

OR:

2. If NO emergency condition exists:
 - Determine ENS notification requirement.
 - Fill out ENS form. Give the ENS form to the WEC Supervisor, who will make the 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><u>NOTE:</u></p> <p>Examinee locates a copy of Radiological Emergency Plan Annex for Dresden EP-AA-1004 charts. Provide the supplied NARS Form. Provide the supplied screen shot of the meteorological data.</p>				
<p>* 1.</p>	<p>Determines a classification of GENERAL EMERGENCY, due to the threshold values:</p> <ul style="list-style-type: none"> • Failure of automatic scram, manual scram, and ARI as indicated by Reactor Power >6%. <p><u>AND</u></p> <ul style="list-style-type: none"> • Heat Capacity Limit of DEOP 200-1 figure M is exceeded. 	<p>Determines highest classification is a GENERAL EMERGENCY per EAL MG3.</p>	<p>_____</p>	<p>_____</p>
<p><u>NOTE:</u></p> <p>Determines classification start time _____ and stop time _____ (15 minute limit).</p>				
<p>* 2.</p>	<p>Properly fills out NARS form.</p>	<p>Critical areas are:</p> <ul style="list-style-type: none"> • Step (2D) circled • Step (3D) circled • Classification of MG3 • Step (9D) circled • Areas listed: 1,3,4,7,9 	<p>_____</p>	<p>_____</p>
<p><u>NOTE:</u></p> <p>NARS form start time (<i>when declaration completed</i>) _____ and stop time _____ (10 minute limit).</p>				
<p>END</p>				

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: 00

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.2.4.38 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) 10 (fill out) minutes

Actual Time Used: _____minutes

References: EP-AA-1004, Rev 25

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. Both units were operating at near rated power when a loss of off-site power transient occurred on Unit 2, resulting in the following conditions:
 - An automatic scram signal was received.
 - The NSO attempted a manual scram and ARI, with both being unsuccessful.
 - Reactor power is 25%.
 - RPV pressure is 850 psig.
 - Torus water level is 16 feet.
 - RPV water level is -155 inches.
 - Torus water temperature is 170°F.

INITIATING CUES

1. If an emergency condition exists:
 - Determine EAL(s) (ignore discretionary EALs).
 - Complete a NARS form. Give the NARS form to the WEC Supervisor, who will make the state notification.

OR:

2. If NO emergency condition exists:
 - Determine ENS notification requirement.
 - Fill out ENS form. Give the ENS form to the WEC Supervisor, who will make the notification.