

Exelon Nuclear

Job Performance Measure

PERFORM LOGS TO CALCULATE DRYWELL LEAK RATE

JPM Number: A-N-1-R

Revision Number: 00

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Modified for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.
3. Ensure a calculator is available and the memory/display has been cleared.

DOCUMENT PREPARATION

1. Clean copy of APPENDIX A, attachment 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	00382	00682	4 min 00 sec
2B DWFDS	00250	00556	4 min 15 sec
2A DWEDS	01007	01277	3 min 45 sec
2B DWEDS	00970	01236	3 min 30 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)

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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
<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 300 (682 – 382) divided by pumping time of 240 seconds (4 min 00 sec) equals a pump flow rate of 75 gpm.</p> <p>$\frac{(300 \text{ gal}) \times (60 \text{ sec})}{(240 \text{ sec})} = \underline{\quad 75 \quad} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____
*	<p>2. For 2B 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>$\frac{(306 \text{ gal}) \times (60 \text{ sec})}{(255 \text{ sec})} = \underline{\quad 72 \quad} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____
*	<p>3. For 2A DWEDS calculates total gallons pumped of 270 (1277 – 1007) divided by pumping time of 225 seconds (3 min 45 sec) equals a pump flow rate of 72 gpm.</p> <p>$\frac{(270 \text{ gal}) \times (60 \text{ sec})}{(225 \text{ sec})} = \underline{\quad 72 \quad} \text{ gpm}$ (1 min)</p>	See Key.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
* 4. For 2B DWEDS calculates total gallons pumped of 266 (1236 – 970) divided by pumping time of 210 seconds (3 min 30 sec) equals a pump flow rate of 76 gpm . $\frac{(266 \text{ gal}) \times (60 \text{ sec})}{(210 \text{ sec}) (1 \text{ min})} = \underline{\underline{76}} \text{ gpm}$	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: PERFORM LOGS TO CALCULATE DRYWELL LEAK RATE

Revision Number: 00

JPM Number: A-N-1-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: 12 minutes **Actual Time Used:** _____ minutes

References: APPENDIX A, rev 124

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	00382	00682	4 min 00 sec
2B DWFDS	00250	00556	4 min 15 sec
2A DWEDS	01007	01277	3 min 45 sec
2B DWEDS	00970	01236	3 min 30 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

PERFORM OFF-SITE SOURCES AVAILABLE

JPM Number: A-N-2-R

Revision Number: 05

Date: 09/10

Developed By: _____
Instructor

Date

Approved By: _____
Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 04 Bank JPM.

Revision 05 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12, or any similar IC that has a normal full power electrical lineup.

DOCUMENT PREPARATION

1. Copy of Appendix X, with data filled out for Unit 3 on attachment 3.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. Unit 2 and Unit 3 are operating at near rated power.
3. The Unit 2 EDG was declared inoperable 10 minutes ago, following a failed surveillance.

INITIATING CUE

1. The Unit Supervisor has just directed you to verify off-site power availability with the Unit 2 EDG inoperable, in accordance with Appendix X Attachment 3 **ONLY**, as required by T.S 3.8.1 action condition B.1.
2. The Unit 3 assist NSO has already collected the data for Unit 3.
3. 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
<u>NOTE:</u>				
Provide the examinee with the provided copy of Appendix X.				
*	1. Record & initial Bus 24-1 & Bus 34-1 Tie ACB (902-8) position.	Examinee records OPEN position.	_____	_____
*	2. Record & initial Bus 24 & Bus 24-1 Tie GCB (902-8) position.	Examinee records CLOSED position.	_____	_____
*	3. Record & initial TR 22 to Bus 24 GCB (902-8) position.	Examinee records CLOSED position.	_____	_____
*	4. Record & initial Bus 24 & Bus 24-1 Tie GCB (902-8) position.	Examinee records CLOSED position.	_____	_____
*	5. Record & initial Bus 24-1 & Bus 34-1 Tie ACB (902-8) position.	Examinee records OPEN position.	_____	_____
*	6. Record & initial Bus 23-1 & Bus 24-1 Volts, by selecting Bus 23-1.	Examinee records actual voltage (~4160 Volts).	_____	_____
*	7. Record & initial Bus 23-1 & Bus 24-1 Volts, by selecting Bus 24-1.	Examinee records actual voltage (~4160 Volts).	_____	_____
*	8. Record & initial Bus 23 & Bus 24 Volts, by selecting Bus 23.	Examinee records actual voltage (~4160 Volts).	_____	_____
*	9. Record & initial Bus 23 & Bus 24 Volts, by selecting Bus 24.	Examinee records actual voltage (~4160 Volts).	_____	_____
*	10. Indicate acceptance criteria met.	Examinee circles "YES" for acceptance criteria.	_____	_____

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
	11. Enter signature, date, and time, for "Performed By".	Examinee enters signature, current date, and current time, for "Performed By".	_____	_____	_____
	12. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.					
		END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: PERFORM OFF-SITE SOURCES AVAILABLE

Revision Number: 05

JPM Number: A-N-2-R

Task Number and Title: 299L044 Perform administrative duties for a malfunction of a piece of safety related equipment.

K/A Number and Importance: Generic.2.1.31 4.6 / 4.3

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: Appendix X, rev 30

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. Unit 2 and Unit 3 are operating at near rated power.
3. The Unit 2 EDG was declared inoperable 10 minutes ago, following a failed surveillance.

INITIATING CUE

1. The Unit Supervisor has just directed you to verify off-site power availability with the Unit 2 EDG inoperable, in accordance with Appendix X, Attachment 3 **ONLY**, as required by T.S 3.8.1 action condition B.1.
2. The Unit 3 assist NSO has already collected the data for Unit 3.
3. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

VERIFY REVERSAL OF EDG COOLING WATER FLOW SURVEILLANCE

JPM Number: A-N-3-R

Revision Number: 02

Date: 09/10

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.

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 Aux NSO.
2. DOS 6600-02 was performed last shift, for the U2 Diesel Generator Cooling Water Flow Reversal.
3. The off-going Field 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. 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.

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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
<u>NOTE:</u>				
Provide the examinee with the provided copy of DOS 6600-02.				
*	1.	Candidate should identify step I.5 has a mathematical error.	Identifies differential pressure should read 4.	____
*	2.	Candidate should identify step I.15 OR step I.16 is signed off as verified dP of <6 (actual is 7).	Identifies incorrect verification of dP <6.	____
*	3.	Candidate should identify that steps I.21.a & b 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.	____
<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 REVERSAL OF EDG COOLING WATER FLOW SURVEILLANCE

Revision Number: 02

JPM Number: A-N-3-R

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

K/A Number and Importance: Generic.2.2.12 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 19

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 6600-02 was performed last shift, for the U2 Diesel Generator Cooling Water Flow Reversal.
3. The off-going Field 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. 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

PERFORM CCSW ACTIVITY CALCULATION

JPM Number: A-N-4-R

Revision Number: 01

Date: 09/10

Developed By: _____
Instructor

Date

Approved By: _____
Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM.

Revision 01 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.
3. Ensure a calculator is available and the memory/display has been cleared.

DOCUMENT PREPARATION

1. Provide a marked up copy of DOS 1500-08.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an on-shift Operator.
2. The Unit 2 NSO started DOS 1500-08, then had to leave shift for medical reasons.

INITIATING CUE

1. Complete DOS 1500-08, data sheet 1 step A, for the 'A' CCSW heat exchanger calculated CCSW Sample Activity Limit.
2. Inform the Unit Supervisor when the task is complete.

.....

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

.....

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of DOS 1500-08.</p> <p>The following steps can be performed in any order.</p>				
*	1. Examinee fills out running pumps for dilution flow (3 Circ pump per unit and 5 Service Water pumps).	See attached key.	_____	_____
*	2. Examinee calculates Dilution flow (1,017,000 gpm).	See attached key.	_____	_____
	3. Examinee enters dilution flow (from above) to calculate CCSW Activity Limit.	See attached key.	_____	_____
*	4. Examinee calculates CCSW Activity Limit (2.91×10^{-5}).	See attached key.	_____	_____
	5. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____
<p><u>CUE:</u></p> <p>Acknowledge report of task completion.</p>				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: PERFORM CCSW ACTIVITY CALCULATION

Revision Number: 01

JPM Number: A-N-4-R

Task Number and Title: 277L003, Perform discharge of CCSW from contaminated LPCI heat exchanger during CCSW pump operation surveillance.

K/A Number and Importance: Generic.2.3.11 3.8 / 4.3

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: DOS 1500-08, 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 an on-shift Operator.
2. The Unit 2 NSO started DOS 1500-08, then had to leave shift for medical reasons.

INITIATING CUE

1. Complete DOS 1500-08, data sheet 1 step A, for the 'A' CCSW heat exchanger calculated CCSW Sample Activity Limit.
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: 00

Date: 09/10

Developed By: _____
Instructor

Date

Approved By: _____
Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM developed for 2010 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. None.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 3 Unit Supervisor.
2. The following timeline occurred:
 - 1500 - a rented backhoe was released by Dresden station to the vendor's off-site facility.
 - 1600 - at the vendor's off-site facility, it was discovered that the released backhoe had a LOW LEVEL contamination.
 - 1700 - corporate issues a press release to notify the public of the released contaminated backhoe.
3. The time is now 1715 hours.

INITIATING CUE

1. Utilizing the Reportability Manual, determine the reportability requirements, including the Time Limit of any Notifications or Reports, 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	
<p><u>NOTE:</u></p> <p>Candidate locates a copy of Reportability Manual LS-AA-1110.</p>					
*	1.	Determines the event is reportable per SAF 1.9.	Determines the event is reportable per SAF 1.9, News Release or Notification of Other Government Agency.	_____	
*	2.	Determines the time limit to Notify the NRC Operations Center via the ENS within four hours of the occurrence.	Determines the time limit to Notify the NRC Operations Center via the ENS within four hours of the occurrence of any event or situation related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made.	_____	
		END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: REPORTABILITY DETERMINATION

Revision Number: 00

JPM Number: A-N-1-S

Task Number and Title: 299L001, Determine Reportability requirements as outlined in station Reportability manual.

K/A Number and Importance: Generic.2.1.2 4.1 / 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: 10 minutes **Actual Time Used:** _____ minutes

References: Reportability Manual LS-AA-1110, rev 15

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. The following timeline occurred:
 - 1500 - a rented backhoe was released by Dresden station to the vendor's off-site facility.
 - 1600 - at the vendor's off-site facility, it was discovered that the released backhoe had a LOW LEVEL contamination.
 - 1700 - corporate issues a press release to notify the public of the released contaminated backhoe.
3. The time is now 1715 hours.

INITIATING CUE

1. Utilizing the Reportability Manual, determine the reportability requirements, including the Time Limit of any Notifications or Reports, if any.

Exelon Nuclear

Job Performance Measure

REVIEW OFF-SITE POWER SOURCES AVAILABLE PAPERWORK

JPM Number: A-N-2-S

Revision Number: 04

Date: 09/10

Developed By: _____
Instructor **Date**

Approved By: _____
Facility Representative **Date**

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 03 Bank JPM.

Revision 04 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12, or any similar IC that has a normal full power electrical lineup.

DOCUMENT PREPARATION

1. Provide a marked up copy of Appendix X, with pages 9 and 10 filled in.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Supervisor.
2. Unit 2 and Unit 3 are at near rated power.
3. The Unit 2 EDG was declared inoperable 10 minutes ago, following a failed surveillance.
4. An NSO collected data for verifying off-site power availability with the Unit 2 EDG inoperable, in accordance with Appendix X Attachment 3

INITIATING CUE

1. Review the data and complete the paperwork.

.....

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 Appendix X with a completed Attachment 3.				
*	1.	Verifies data all entered.	Notes Bus 23-1 & Bus 24-1 Volts, (Bus 24-1) is NOT \geq 3851 Volts.	_____
*	2.	Verifies data all entered.	Notes Bus 23 & Bus 24 Volts, (Bus 24) is NOT \geq 3851 Volts.	_____
*	3.	Verify data is accurate, by reading Voltmeter.	Verifies Voltmeter Bus 23-1 & Bus 24-1 Volts (Bus 24-1) and Voltmeter Bus 23 & Bus 24 Volts (Bus 24), for correct voltage and corrects paperwork, by lining out and initial/dating incorrect value (~4160) and replacing with correct value,	_____
<u>CUE:</u>				
If Candidate states the he/she would return surveillance to the NSO for corrections, inform the Examinee to make any corrections.				
		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: 04

JPM Number: A-N-2-S

Task Number and Title: 299L044, Perform administrative duties for a malfunction of a piece of safety related equipment.

K/A Number and Importance: Generic.2.1.31 4.2 / 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: Appendix X, rev 30

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 and Unit 3 are at near rated power.
3. The Unit 2 EDG was declared inoperable 10 minutes ago, following a failed surveillance.
4. An NSO collected data for verifying off-site power availability with the Unit 2 EDG inoperable, in accordance with Appendix X Attachment 3

INITIATING CUE

1. Review the data and complete the paperwork.

Exelon Nuclear

Job Performance Measure

REVIEW CALCULATED DRYWELL LEAKRATE AND IDENTIFY TECH SPECS

JPM Number: A-N-3-S

Revision Number: 00

Date: 09/10

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Modified for 2010 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 Appendix 'A'.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Unit 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. The Shift Manager has directed you to complete a record review of the past three days 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
<p><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of Appendix 'A'.</p> <p>If asked, leak check is in progress and/or Drywell samples and CAM results are trending up.</p>				
*	1.	Verifies Calculated Floor Drain Leakage is correct.	Determines Floor Drain leakage for THU 1200 hours should be 4.50 gpm.	_____
*	2.	Verifies Calculated Floor Drain Leakage is correct.	Determines TOTAL leakage for FRI 2000 hours should be 12.13 gpm.	_____
<p><u>NOTE:</u></p> <p>If asked to correct Floor Drain leakage numbers and Total leakage, instruct the examinee to make corrections and perform calculation based on numbers given.</p>				
*	3.	Verifies Calculated Floor Drain Leakage is correct.	Determines Floor Drain leakage for FRI 1200 hours should be 5.15 gpm (TS).	_____
*	4.	References Tech Specs.	References Tech Spec 3.4.4 and recognizes <ul style="list-style-type: none"> • >5 gpm unidentified leakage for FRI 1600 hours. Recognizes in Cond A & B.	_____
	5.	Reports discrepancies.	Examinee reports discrepancies noted.	_____
<p><u>CUE:</u></p> <p>Acknowledge report of task completion.</p>				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: REVIEW CALCULATED DRYWELL LEAKRATE AND IDENTIFY TECH SPECS

Revision Number: 01

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.2.2.40 3.4 / 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: 15 minutes **Actual Time Used:** _____ minutes

References: Appendix 'A', rev 124

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. 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. The Shift Manager has directed you to complete a record review of the past three days 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

PERFORM CCSW ACTIVITY CALCULATION

JPM Number: A-N-4-S

Revision Number: 01

Date: 09/10

Developed By: _____
Instructor

Date

Approved By: _____
Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM.

Revision 01 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. This is a tabletop JPM utilizing simulator procedures.
2. No Simulator setup needed.
3. Ensure a calculator is available and the memory/display has been cleared.

DOCUMENT PREPARATION

1. Provide a marked up copy of DOS 1500-08.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an on-shift Operator.
2. The Unit 2 NSO started DOS 1500-08, then had to leave shift for medical reasons.

INITIATING CUE

1. Complete DOS 1500-08, data sheet 1 step A, for the 'A' CCSW heat exchanger calculated CCSW Sample Activity Limit.
2. Inform the Unit Supervisor when the task is complete.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

.....

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of DOS 1500-08.</p> <p>The following steps can be performed in any order.</p>				
*	1.	Examinee fills out running pumps for dilution flow (3 Circ pump per unit and 5 Service Water pumps).	See attached key.	_____
*	2.	Examinee calculates Dilution flow (1,017,000 gpm).	See attached key.	_____
	3.	Examinee enters dilution flow (from above) to calculate CCSW Activity Limit.	See attached key.	_____
*	4.	Examinee calculates CCSW Activity Limit (2.91×10^{-5}).	See attached key.	_____
	5.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____
<p><u>CUE:</u></p> <p>Acknowledge report of task completion.</p>				
		END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: PERFORM CCSW ACTIVITY CALCULATION

Revision Number: 01

JPM Number: A-N-4-S

Task Number and Title: 277L003, Perform discharge of CCSW from contaminated LPCI heat exchanger during CCSW pump operation surveillance.

K/A Number and Importance: Generic.2.3.11 3.8 / 4.3

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: DOS 1500-08, rev 16

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an on-shift Operator.
2. The Unit 2 NSO started DOS 1500-08, then had to leave shift for medical reasons.

INITIATING CUE

1. Complete DOS 1500-08, data sheet 1 step A, for the 'A' CCSW heat exchanger calculated CCSW Sample Activity Limit.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

AUTHORIZE USE OF KI

JPM Number: A-N-5-S

Revision Number: 01

Date: 09/10

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Bank JPM.

Revision 01 Revised for 2010 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. Two (2) marked up copies of EP-AA-113-F-02.
2. Blank copy of EP-AA-113.
3. Blank copy of EP-AA-113-F-03.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Station Emergency Director.
2. A General Emergency has been declared.
3. There is an offsite release in progress.
4. A Loss of the Fuel Clad Barrier has occurred, together with a failure of the RCS.
5. Containment is currently being challenged.
6. The TSC has NOT been activated, but the appropriate EAL has been declared.
7. An Emergency life saving operation MUST be performed.
8. The operation will take between 15 and 20 minutes in a 200 R/hr field (CDE) with unknown fission product gas concentration in the room.
9. The operation requires two people to enter the field.
10. Clay Morrow, Employee ID# 123456 and Jax Teller Employee ID# 891011 have volunteered.
11. Clay and Jax have NEVER received an emergency exposure before.
12. Authorization for Emergency Exposure (EP-AA-113-F-02 forms) have been filled out for Clay and Jax.

INITIATING CUES

1. Execute section 4.4 of EP-AA-113.

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 the provided copies of: EP-AA-113-F-02, EP-AA-113, and EP-AA-113-F-03</p>				
1.	Applicant determines need for emergency action.	Emergency action is needed per initiating cue.	_____	_____
<p><u>CUE:</u></p> <p>If asked, Clay and Jax do NOT have any adverse reactions to KI.</p>				
2.	Applicant recognizes per the initiating cue that authorization to take KI must also be completed prior to the emergency workers entering the space.	Recognizes that authorization to take KI must also be completed.	_____	_____
*	3. Determines there is or has been a Loss of Fuel Clad Barrier (based on initiating cues). Determines from step 4.4.1.B, condition 1, that workers will be entering an unknown radiological atmosphere that is suspected to have a high iodine concentration. Determines KI must be issued.	Determines KI must be issued.	_____	_____
*	4. Documents the decision to issue KI using THYROID BLOCKING AGENT AUTHORIZATION Form (EP-AA-113-F-03).	BOTH individuals being authorized for KI and entering the space must be listed with their correct names and employee ID numbers: <ul style="list-style-type: none"> • Clay Morrow 123456 • Jax Teller 891011 	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>If asked for Radiation Protection Manager to sign and date EP-AA-113-F-03, enter name as "TIG TRAGER" and today's date in the appropriate blanks.</p>					
5.	Notifies Occupational Health (Medical) Services Department promptly that KI is to be issued to Exelon Nuclear personnel or contractors.	Examinee states that he/she would notify OHS.	_____	_____	_____
<p><u>NOTE:</u></p> <p>JPM is complete when applicant notifies OHS of KI use.</p>					
			END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: AUTHORIZE USE OF KI

Revision Number: 01

JPM Number: A-N-5-S

Task Number and Title: 29900LK150, Discuss the responsibilities of the Shift Manager regarding Reportability determination and event notifications.

K/A Number and Importance: Generic.2.4.40 2.7 / 4.5

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: EP-AA-113, rev B; EP-AA-113-F-03, rev D; EP-AA-113, rev 10

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 Station Emergency Director.
2. A General Emergency has been declared.
3. There is an offsite release in progress.
4. A Loss of the Fuel Clad Barrier has occurred, together with a failure of the RCS.
5. Containment is currently being challenged.
6. The TSC has NOT been activated, but the appropriate EAL has been declared.
7. An Emergency life saving operation MUST be performed.
8. The operation will take between 15 and 20 minutes in a 200 R/hr field (CDE) with unknown fission product gas concentration in the room.
9. The operation requires two people to enter the field.
10. Clay Morrow, Employee ID# 123456 and Jax Teller Employee ID# 891011 have volunteered.
11. Clay and Jax have NEVER received an emergency exposure before.
12. Authorization for Emergency Exposure (EP-AA-113-F-02 forms) have been filled out for Clay and Jax.

INITIATING CUES

1. Execute section 4.4 of EP-AA-113.

Exelon Nuclear

Job Performance Measure

SBLC - INJECTION WITH RWCU ISOLATION FAILURE

JPM Number: S-N-a

Revision Number: 00

Date: 09/10

Developed By: _____
Instructor **Date**

Approved By: _____
Facility Representative **Date**

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Modified for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Insert following Malfunctions and/or Remotes:
 - IMF CIRWCUAP (2-1201-1 valve failure to close – and allows manual closure).
 - IMF CIRWCUBP (2-1201-2 valve failure to close – and allows manual closure).
3. Setup the following Triggers:
 - None.

DOCUMENT PREPARATION

DOP 1100-02 hardcard.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. A transient has occurred, resulting in an ATWS.
3. The Unit Supervisor has authorized the use of Hard Cards.

INITIATING CUE

1. The Unit Supervisor has ordered you to inject SBLC, for an ATWS, per the Hard Card.
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>					
Examinee should locate the hard card, then provide the included copy.					
*	1. Place the SBLC INJECTION CONTROL keylock switch to the SYS 1 <u>OR</u> SYS 2 position.	Turns the SBLC INJECTION CONTROL keylock switch to <u>either</u> the intermediate right <u>OR</u> intermediate left position.	_____	_____	_____
	2. Verifies applicable SQUIB pilot light NOT lit.	SQUIB "A" or "B" light off.	_____	_____	_____
	3. Verifies applicable PUMP pilot light lit.	PUMP 1 or PUMP 2 light on.	_____	_____	_____
	4. Verifies FLOW pilot light lit.	WHITE light illuminated.	_____	_____	_____
	5. SBLC SQUIB VLV CKT FAILURE annunciator alarms (902-5 H-6).	Annunciator 902-5 H-6 illuminated.	_____	_____	_____
BEGIN ALTERNATE PATH					
*	6. Verifies RWCU valve 2-1201-1 closed.	Examinee recognizes that valve 2-1201-1 valve did NOT close.	_____	_____	_____
*	7. Verifies RWCU valve 2-1201-1 closed.	Takes manual action for a failed automatic action and closes 2-1201-1 valve, by placing c/s in the CLOSED position.	_____	_____	_____
	8. Verifies RWCU valve 2-1201-1A closed.	GREEN light illuminated.	_____	_____	_____
*	9. Verifies RWCU valve 2-1201-2 closed.	Examinee recognizes that valve 2-1201-2 valve did NOT close.	_____	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST			STANDARDS	SAT	UNSAT	Comment
*	10.	Closes RWCU valve 2-1201-2 closed.	Takes manual action for a failed automatic action and closes 2-1201-2 valve, by placing c/s in the CLOSED position.	_____	_____	_____
	11.	Verifies RWCU valve 2-1201-3 closed.	GREEN light illuminated.	_____	_____	_____
	12.	Verifies RWCU valve 2-1201-7 closed.	RED light illuminated.	_____	_____	_____
	13.	Informs Unit Supervisor task is complete.	Reports SBLC is injecting and valves 2-1201-2 and 2-1201-3 failed to close automatically.	_____	_____	_____
<u>CUE:</u>						
Acknowledge report of task completion.						
				END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: SBLC - INJECTION WITH RWCU ISOLATION FAILURE

Revision Number: 00

JPM Number: S-N-a

Task Number and Title: 211L002, Injection of Standby Liquid Control System

K/A Number and Importance: 211000.A4.08 4.2 / 4.2

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: 9 minutes **Actual Time Used:** _____ minutes

References: DOP 1100-02, rev 18

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. A transient has occurred, resulting in an ATWS.
3. The Unit Supervisor has authorized the use of Hard Cards.

INITIATING CUE

1. The Unit Supervisor has ordered you to inject SBLC, for an ATWS, per the Hard Card.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

CORE SPRAY - PERFORM PUMP TEST WITH PUMP TRIP

JPM Number: S-N-b

Revision Number: 05

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 04 Bank JPM.

Revision 05 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Start the LPCI/CS room cooler fans.
3. Enter the following Expert commands to set up an automatic trigger to trip the Core Spray pump after the test valve is opened:

NOTE: The trigger assignment can be changed to any other available trigger to accommodate running this JPM concurrently with other JPMs.

- **trgset 1 "cssbkppb .and. cslop4b" (Trigger 1 Activates when 2B Core Spray pump is running AND when MO 1402-4B OPEN light turns ON)**
- **ior csdtpppb (1 10) trip (After 10 sec, inserts a 2B Core Spray pump trip)**
- **ior csdclppb (1 10) off (After 10 sec, inserts a 2B Core Spray pump trip)**
- **trgset 2 "(et_array(1) .and. (.not. cssbkppb))"|2 (Trigger 2 Activates when Trigger 1 is active AND when 2B Core Spray pump is NOT running)**
- **trg 2 "dor csdtpppb"|2 (Deletes 2B Core Spray pump trip)**

DOCUMENT PREPARATION

1. Markup a copy of DOS 1400-05 as complete up through Step I.7. (Ready to start 2B Core Spray Pump per step I.8).

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Core Spray 'B' Pump operability surveillance is required due to maintenance.
3. The operability surveillance for the 2A Core Spray pump is NOT needed.
4. The system is filled and vented.
5. The required valve operability surveillance has been completed.
6. Vibration data is NOT required.
7. The Unit 2 NLO is standing by in the corner room.
8. The LPCI/Core Spray Room Coolers are running.

INITIATING CUE

1. The Unit Supervisor directs you to perform DOS 1400-05 step I.8 for the 2B Core Spray pump.
2. All applicable Prerequisites have been met.
3. Inform the Unit Supervisor upon completion of step I.8.

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

Job Performance Measure (JPM)

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 Examinee a copy of DOS 1400-05.					
1.	Verify the following valve line up: <ul style="list-style-type: none"> • MO 2-1402-4B Closed • MO 2-1402-38B Open • 2-1402-6B Open • MO 2-1402-25B Closed • MO 2-1402-3B Open • 2-1402-40B-SV Closed 	Verifies the following: <ul style="list-style-type: none"> • Green light illuminated. • Green light illuminated. • Green light illuminated. • Green light illuminated. • Green light illuminated. • Green light illuminated. • Directs NLO to Verify 2-1402-40B-SV Closed 	_____	_____	_____
<u>CUE:</u> 2-1402-40B-SV, INST SV is closed.					
<u>NOTE:</u> The next three (3) actions may be requested to be performed at the same time.					
2.	Verify 2B CORE SPRAY MOTOR has adequate lubrication.	Contacts NLO to verify 2B CORE SPRAY MOTOR has adequate lubrication per step I.8.b.(1).	_____	_____	_____
<u>CUE:</u> 2B Core Spray motor oil level is normal (within +0 to -1/8 inch band).					
3.	Verify 2B LPCI/CS Room Cooler is operating properly.	Contacts NLO to verify proper room cooler operation per step I.8.c.	_____	_____	_____
<u>CUE:</u> 2B LPCI/CS room cooler is operating normally.					

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
	4. Direct NLO to open 2-1402-40B-SV and report pressure.	Directs 2-1402-40B-SV Open.	_____	_____	_____
<u>CUE:</u> When asked, report: "2-1402-40B-SV Inst SV is Open".					
	5. Record suction pressure provided by NLO.	Pressure of 7 psig recorded on Data Sheet 1.	_____	_____	_____
<u>CUE:</u> When asked, report: "suction pressure is 7 psig".					
	6. Calculate 2-1402-8B initial closed DP.	DP Calculated: 2-1450-1B _____ psig Minus 2-1402-40B <u> 7 </u> psig Records 2-1450-1B pressure as 75 psig (± 5 psig)	_____	_____	_____
<u>CUE:</u> If examinee requests the above calculation to be verified, <u>sign the "verified by" line.</u> If the student informs the SRO that the Core Spray System should be declared inoperable, acknowledge the report.					
<u>NOTE:</u> Candidate will N/A step 1.8.g.					
*	7. Start 2B CORE SPRAY Pump.	Red light illuminated and annunciators H-13 and A-5 alarm.	_____	_____	_____
<u>NOTE:</u> 2B Core Spray Pump overcurrent trip malfunction is automatically inserted 10 seconds after the 2-1402-4B valve has dual indication.					

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
*	8. Open FLOW TEST VLV MO 2-1402-4B.	Rotates and holds MO 2-1402-4B Control switch CW to Open.	_____	_____	_____
BEGIN ALTERNATE PATH					
	9. Acknowledge and report alarm for 2B CS pump trip.	Acknowledges annunciator H-5 and makes report.	_____	_____	_____
<u>CUE:</u> Acknowledge report.					
*	10. Immediately Close 2-1402-4B.	Green light illuminated. Red light illuminated.	_____	_____	_____
<u>CUE:</u> If examinee enters DOA 6500-10, respond that the assist NSO will execute that procedure.					
<u>CUE:</u> If examinee terminates, or requests permission to terminate the surveillance OR If examinee references the DAN for pump trip and has at least considered the actions to take, then provide the cue: Terminate the surveillance. Leave the system in the current lineup. Someone else will be assigned to verify the system is restored to normal.					
	11. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.					
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: CORE SPRAY - PERFORM PUMP TEST WITH PUMP TRIP

Revision Number: 05

JPM Number: S-N-b

Task Number and Title: 209L004, Perform a CS pump operability test and determine if the results meet the acceptance criteria as stated in DOS 1400-05

K/A Number and Importance: 209001.A4.01 3.8 / 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: 22 minutes **Actual Time Used:** _____ minutes

References: DOS 1400-05, rev 41

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. The Unit 2 Core Spray 'B' Pump operability surveillance is required due to maintenance.
3. The operability surveillance for the 2A Core Spray pump is NOT needed.
4. The system is filled and vented.
5. The required valve operability surveillance has been completed.
6. Vibration data is NOT required.
7. The Unit 2 NLO is standing by in the corner room.
8. The LPCI/Core Spray Room Coolers are running.

INITIATING CUE

1. The Unit Supervisor directs you to perform DOS 1400-05 step I.8 for the 2B Core Spray pump.
2. All applicable Prerequisites have been met.
3. Notify the Unit Supervisor upon completion of step I.8.

Exelon Nuclear

Job Performance Measure

DEHC - ESTABLISH RPV COOLDOWN WITH BYPASS VALVES

JPM Number: S-N-c

Revision Number: 01

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM.

Revision 01 Revised for 2010 NRC exam

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to any IC with the Reactor shutdown, but at full pressure.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Ensure that Both DEHC monitors are displaying the STATUS screen .
3. Insert following Malfunctions and/or Remotes:
 - None.
4. Setup the following Triggers:
 - None.
5. Be prepared to acknowledge various alarms on other panels during this JPM (candidate to acknowledge 902-7 panel only).

DOCUMENT PREPARATION

Markup a copy of DGP 02-03.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. A transient has occurred and the Unit Supervisor has determined a reactor cooldown is required.
3. Another NSO will acknowledge annunciators not associated with this task.

INITIATING CUE

1. The Unit Supervisor has directed you to begin a 75.0 Deg. F. / hr reactor cooldown to 400 Deg. F. utilizing the Turbine Bypass valves by performing DGP 02-03 steps E.29.
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 DGP 02-03.					
All the below actions can be performed on <u>either</u> of the Digital EHC control stations.					
*	1.	Select <CONTROL>.	Utilizing the trackball controller, clicks on <CONTROL>.	_____	_____
*	2.	Select <RX COOLDOWN>.	Utilizing the trackball controller, clicks on <RX COOLDOWN>.	_____	_____
	3.	Verify REACTOR COOLDOWN is OFF.	Observes the REACTOR COOLDOWN OFF select button is orange.	_____	_____
*	4.	Select STPT/RAMP.	Utilizing the trackball controller, clicks on the <STPT/RAMP>.	_____	_____
*	5.	Enter desired target temperature setpoint.	Clicks in the Set Point box. Utilizing the keyboard, enters 400.0.	_____	_____
*	6.	Enter desired cooldown rate in the Ramp box.	Clicks in the Ramp Rate box. Utilizing the keyboard, enters 75.0.	_____	_____
*	7.	Select <OK>.	Utilizing the trackball controller, clicks on <OK>. Clicks <OK> on the Confirm Setpoint pop up window.	_____	_____
*	8.	Initiate Reactor cooldown by selecting ON for REACTOR COOLDOWN.	Utilizing the trackball controller, clicks on <ON>. Clicks <OK> on the "Begin Reactor Cooldown" pop up window.	_____	_____

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
9.	On <CONTROL> <PRESSURE CONTROL> screen, adjust pressure setpoint as necessary to maintain at least 50 psig above Reactor pressure.	<p>If uses other DEHC screen, utilizing the trackball controller, clicks on <CONTROL>.</p> <p>Utilizing the trackball controller, clicks on <PRESSURE CONTROL>.</p>	_____	_____	_____
<u>NOTE:</u>					
The Examinee may wait to proceed until RPV pressure has decreased ~ 50 psig.					
10.	On <CONTROL> <BPV JACK> screen, verify BPV Jack position setpoint is -5.0%.	<p>If uses other DEHC screen, utilizing the trackball controller, clicks on <CONTROL>.</p> <p>Utilizing the trackball controller, clicks on < BPV JACK >.</p> <p>Observes BPV Jack position setpoint is -5.0%.</p>	_____	_____	_____
11.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u>					
Acknowledge report of task completion.					
			END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: DEHC - ESTABLISH RPV COOLDOWN WITH BYPASS VALVES

Revision Number: 01

JPM Number: S-N-c

Task Number and Title: 29501LP040, Respond to a Reactor Scram IAW DGP 02-03.

K/A Number and Importance: 241000.A4.06 3.9 / 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: 12 minutes **Actual Time Used:** _____ minutes

References: DGP 02-03, rev 89

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. A transient has occurred and the Unit Supervisor has determined a reactor cooldown is required.
3. Another NSO will acknowledge annunciators not associated with this task.

INITIATING CUE

1. The Unit Supervisor has directed you to begin a 75.0 Deg. F. / hr reactor cooldown to 400 Deg. F. utilizing the Turbine Bypass valves by performing DGP 02-03 steps E.29.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

LPCI - MITIGATE HIGH SUCTION PRESSURE
WHILE LINING UP TO CST SUCTION FOR INJECTION

JPM Number: S-N-d

Revision Number: 07

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 06 Bank JPM.

Revision 07 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Verify NO LPCI pumps operating .
3. Insert following Malfunctions and/or Remotes:
 - None.
4. Setup the following Triggers:
 - None.

DOCUMENT PREPARATION

Markup a copy of DEOP 0500-03.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. A transient has occurred requiring Alternate Water Injection.
3. RPV level is –65 inches and slowly dropping.
4. RPV pressure is 375 psig and slowly dropping.
5. An EO has been briefed and is in the field.

INITIATING CUE

1. The Unit Supervisor has directed you to line up the 2A LPCI pump suction to the CST to prepare to raise RPV water level per DEOP 500-03, step G.12.
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 DEOP 0500-03.				
*	1. Place 2A LPCI PP control switch in Pull-to-Lock.	ALL lights extinguished.	_____	_____
*	2. Place PP SUCT VLV MO 2-1501-5A control switch in Manual Bypass and verify closed.	RED light illuminated.	_____	_____
	3. Verify MIN FLOW VLV 2-1501-13A closed if not needed.	RED light illuminated.	_____	_____
<u>CUE:</u>				
2-1501-13A is not required for 2B LPCI pump.				
<u>NOTE:</u>				
The following valves may be verified in any order				
	4. Verify TORUS CLG/TEST valves 2-1501-20A and 2-1501-38A closed.	GREEN lights illuminated.	_____	_____
	5. Verify TORUS SPRAY VLVs 2-1501-19A and 2-1501-18A closed.	GREEN lights illuminated.	_____	_____
	6. Verify DW SPRAY VLVs 2-1501-28A and 2-1501-27A closed.	GREEN lights illuminated.	_____	_____
	7. Verify TORUS CLG/TEST valves 2-1501-20B and 2-1501-38B closed.	GREEN lights illuminated.	_____	_____
	8. Verify TORUS SPRAY VLVs 2-1501-19B and 2-1501-18B closed.	GREEN lights illuminated.	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
9.	Verify DW SPRAY VLVs 2-1501-28B and 2-1501-27B closed.	GREEN lights illuminated.	_____	_____	_____
<u>NOTE:</u>					
For bleeding off the pressure in the suction piping, the examinee may communicate each of the following steps individually OR instruct the NLO to complete actions of DEOP 0500-03 step G.12.c.(5 thru 8).					
<u>CUE:</u>					
When directed, as the NLO in the field, communicate that the steps (either individually or as a whole) have been completed.					
10.	Unlock AND open 2-1501-74A, U2 LPCI A PMP VENT VLV.	Instructs NLO to complete step G.12.c.(5).(a).	_____	_____	_____
11.	Crack open 2-1501-15A, U2 LPCI A PMP VENT VLV until flow is observed from pipe.	Instructs NLO to complete step G.12.c.(5).(b).	_____	_____	_____
12.	Close 2(3)-1501-15A, U2 LPCI A PMP VENT VLV.	Instructs NLO to complete step G.12.c.(5).(c).	_____	_____	_____
13.	Close AND lock 2-1501-74A, U2(3) LPCI A PMP VENT VLV.	Instructs NLO to complete step G.12.c.(5).(d).	_____	_____	_____
*	14. Open 2-1501-47A-R, U2 LPCI A PUMP SUCT PI 2-1501-47A ROOT VLV (at pump) and verify PI 2-1501-47A indicates less than 15 psig.	Instructs NLO to obtain PI 2-1501-47A reading per step G.12.c.(6).	_____	_____	_____
<u>CUE:</u>					
PI 2-1501-47A indicates 15.5 psig.					
*	15. Recognizes reading is NOT less than 15 psig.	Determines reading is greater than 15 psig.	_____	_____	_____

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
	16. Close 2-1501-47A-R, U2 LPCI A PUMP SUCT PI 2-1501-47A ROOT VLV.	Instructs NLO to close 2-1501-47A per step G.12.c.(8).	_____	_____	_____
<u>CUE:</u> 2-1501-47A-R is Closed.					
BEGIN ALTERNATE PATH					
*	17. Open PP SUCT VLV MO 2-1501-5A.	GREEN light illuminated.	_____	_____	_____
*	18. Place 2A LPCI PP control switch in AUTO.	Depresses and places 2A LPCI PP c/s to center (AUTO) position.	_____	_____	_____
	19. Notify Unit Supervisor that 2A LPCI pump cannot be used with suction from the CST.	Examinee notifies Unit Supervisor of 2A LPCI pump suction pressure problem when aligned to CST. May recommend using another LPCI pump.	_____	_____	_____
<u>CUE:</u> Before examinee proceeds, inform him/her injection is no longer needed and another LPCI pump does NOT need to be selected Acknowledge report of task completion.					
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: LPCI - MITIGATE HIGH SUCTION PRESSURE WHILE LINING UP TO CST
SUCTION FOR INJECTION

Revision Number: 07

JPM Number: S-N-d

Task Number and Title: 29502LK061, Lineup LPCI to the CST

K/A Number and Importance: 203000.A4.02 4.1 / 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: DEOP 0500-03, 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 Aux NSO.
2. A transient has occurred requiring Alternate Water Injection.
3. RPV level is –65 inches and slowly dropping.
4. RPV pressure is 375 psig and slowly dropping.
5. An EO has been briefed and is in the field.

INITIATING CUE

1. The Unit Supervisor has directed you to line up the 2A LPCI pump suction to the CST to prepare to raise RPV water level per DEOP 500-03, step G.12.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

CONTAINMENT - VENT THE TORUS WITH LEVEL LESS THAN 30 FEET

JPM Number: S-N-e

Revision Number: 05

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 04 Bank JPM.

Revision 05 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. 1.Reset the simulator to an IC with the mode switch NOT in run, so that the proper alarms and interlocks will work.
2. Ensure Torus water level is 20 feet.
3. Insert following Malfunctions and/or Remotes.
 - IMF CIGP2I (Spurious Group II Isolation)
 - IOR PCDOOP61 OFF (prevents the 1601-61 valve from opening)

 - Adjusts Torus Level indications to ~20 feet.
 - ❖ ior atl10 25.0
 - ❖ ior pcltr10a 20
 - ❖ ior pcltr10b 20

 - ior pcptr103 58.0 (Adjusts Torus Bottom Pressure to 58.0 psig)

 - Pulls ECCS Initiation Logic fuses so when Drywell pressure is forced high, NO ECCS starts.
 - ❖ irf lp1aaf1f pulled
 - ❖ irf lp701af pulled
 - ❖ irf lp1aaf2f pulled
 - ❖ irf lp701bf pulled
 - ❖ irf csaloff pulled
 - ❖ irf csblgoff pulled
 - ❖ irf hp2a1f1 pulled
 - ❖ irf hp2b1f1 pulled

 - Adjusts Drywell & Torus pressures to 50.0 psig.
 - ❖ ior pcp8524 50.0
 - ❖ ior pcpdw102 50.0
 - ❖ ior pcp85401 5.0|
 - ❖ ior pcptr1 5.0
4. Verify the SBGT system operating and verify flow ~4000 scfm.
5. Start ALL available U2 EAST T.B., Radwaste, and U3 T.B. exhaust fans.
6. Place CRM ISOL switch to ISOLATE – wait 10 seconds then verify a C/R Booster Fan is running.

DOCUMENT PREPARATION

Markup a copy of DEOP 500-04.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Aux NSO.
2. A break inside the Primary Containment has occurred.
3. Torus bottom pressure is about to exceed the PCP limit in DEOP 200-01.
4. Torus water level is 20'
5. Control Room ventilation has been isolated.
6. Reactor Building and Turbine Building have been evacuated.
7. The Instrument Bus and ESS Bus are energized.
8. The Instrument Air System is available.

INITIATING CUE

1. The Unit Supervisor has directed you to vent the Primary Containment in accordance with DEOP 500-04, attachment 1 to control Primary Containment pressure.
2. Inform the Unit Supervisor when the task is complete.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

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

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

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

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment	
<p><u>NOTE:</u></p> <p>Provide examinee the marked up copy of DEOP 0500-04.</p> <p>Annunciator 902-3 A-15 may be received during this JPM.</p>					
1.	Verify SGBT is operating and flow is ~ 4000 scfm.	Verifies 2/3A SGBT train FI 7540-13 is reading ~4000 scfm.	_____	_____	_____
2.	Verify Reactor Mode switch <u>NOT</u> in RUN.	Verifies Reactor Mode switch <u>NOT</u> in RUN.	_____	_____	_____
3.	Place VENT ISOL SIGNAL BYPASS switch on 902-5 panel to TORUS.	Momentarily places Bypass switch to Torus Position.	_____	_____	_____
<p><u>NOTE:</u></p> <p>The AO 2-1601-61, TORUS 2-INCH VENT VLV, will <u>NOT</u> open.</p>					
4.	Open AO 2-1601-61, TORUS 2-INCH VENT VLV.	Places AO 2-1601-61 control switch to OPEN position and determines that the valve will not open.	_____	_____	_____
<p><u>NOTE:</u></p> <p>IF candidate states that the 2-1601-61 valve will not open, direct him/her to complete the task.</p>					
BEGIN ALTERNATE PATH					
*	5. Place VENT ISOL SIGNAL BYPASS switch on 902-5 panel to DRYWELL.	Momentarily places Vent Isol Signal Bypass switch to Drywell position.	_____	_____	_____
<p><u>CUE:</u></p> <p>If examinee reads TORUS BOTTOM PRESS PI 2-1640-103, inform him/her that the meter displays 58 psig and is trending UP slowly.</p>					
*	6. Open AO 2-1601-62, DW 2-INCH Vent.	Red Open light illuminated.	_____	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
*	7.	Open AO 2-1601-63, VENT TO SBTG.	Red Open light illuminated.	_____	_____
	8.	Start as many Turbine Building and Radwaste Exhaust fans as possible.	Initiates action to start All available Turbine Building and Radwaste Exhaust fans.	_____	_____
	9.	Determine if SBTG flow is adequate to control and maintain DW pressure below the Primary Containment Pressure Limit.	Containment pressure stable or decreasing.	_____	_____
<p><u>CUE:</u></p> <p>DW pressure is being controlled and maintained below the Primary Containment Pressure Limit.</p> <p>If examinee asks reading on TORUS BOTTOM PRESS PI 2-1640-103, inform him/her that the meter has decreased to 53 psig (5 psig less than original report).</p>					
	10.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____
<p><u>CUE:</u></p> <p>Acknowledge report of task completion.</p>					
			END		

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: CONTAINMENT - VENT THE TORUS WITH LEVEL LESS THAN 30 FEET

Revision Number: 05

JPM Number: S-N-e

Task Number and Title: 295L099, Vent the primary containment to SBGT to stay below the Primary Containment Pressure Limit.

K/A Number and Importance: 295024.A1.14 3.4 / 3.5

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: 17 minutes **Actual Time Used:** _____ minutes

References: DEOP 0500-04, rev 12

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 Aux NSO.
2. A break inside the Primary Containment has occurred.
3. Torus bottom pressure is about to exceed the PCP limit in DEOP 200-01.
4. Torus water level is 20'
5. Control Room ventilation has been isolated.
6. Reactor Building and Turbine Building have been evacuated.
7. The Instrument Bus and ESS Bus are energized.
8. The Instrument Air System is available.

INITIATING CUE

1. The Unit Supervisor has directed you to vent the Primary Containment in accordance with DEOP 500-04, attachment 1 to control Primary Containment pressure.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

AUX POWER - TRANSFER POWER TO TR-22 FROM TR-21
WITH BREAKER FAILURE

JPM Number: S-N-f

Revision Number: 01

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM.

Revision 01 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator any IC with only 2 RFPs and 3 Cond/Cond Booster Pumps operating.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Insert following Malfunctions and/or Remotes:
 - M63 (to prevent TR-22 to Bus 23 breaker from closing).
3. Setup the following Triggers:
 - None.
4. Ensure ONLY 2 RFPs operating.
5. Ensure ONLY 3 Cond/Cond Booster Pumps operating.

DOCUMENT PREPARATION

1. Marked up copy of DOP 6500-01.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. Unit 2 was operating at rated power when the TR-21 trouble alarm is received.
3. The NLO, dispatched to TR-21, reported that the TR-21 cooling fans are not all operating and the transformer temperature is rising.
4. The Unit Supervisor has decided to unload TR-21 by transferring auxiliary power to TR-22.
5. Another operator will verify TR-86 Load Tap Changer positions and loading remains below the restrictions of the procedure.

INITIATING CUE

1. The Unit Supervisor has directed you to transfer Bus 21 and Bus 23 to TR-22 from TR-21 in accordance with DOP 6500-01.
2. Inform the Unit Supervisor when the task is complete.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

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

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

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

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>Provide the examinee with the provided copy of DOP 6500-01.</p> <p>This task has two parts, which can be performed in any order.</p>				
<p><u>CUE:</u></p> <p>IF the incoming and running voltages are NOT approximately equal, inform examinee that they ARE approximately equal.</p>				
TRANSFER BUS 21 TO TR-22				
*	1.	Position TR-22 to Bus 21 SYNCHROSCOPE selector switch to ON.	Switch in ON position.	____
	2.	Verify: INCOMING VOLTS and RUNNING VOLTS meters approximately equal. SYNCHRONIZING meter at 12 o'clock position and <u>NOT</u> rotating. SYNCHRONIZING meter lights <u>NOT</u> glowing.	Voltages approximately equal. Meter <u>NOT</u> rotating. White lights extinguished.	____
*	3.	Position TR-22 to Bus 21 breaker control switch to CLOSE.	RED light illuminated.	____
	4.	Verify: SYNCHRONIZING meter at 12 o'clock position. TR-22 to Bus 21 breaker indicates CLOSED. Annunciator 902-8 D-1 in alarm.	Meter <u>NOT</u> rotating. RED light illuminated. Annunciator 902-8 D-1 illuminated.	____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST		STANDARDS	SAT	UNSAT	Comment
*	5. Position TR-21 to Bus 21 breaker control switch to TRIP.	GREEN light illuminated.	_____	_____	_____
	6. Verify: TR-21 to Bus 21 breaker indicates OPEN. Annunciator 902-8 D-1 clears.	GREEN light illuminated. Annunciator 902-8 D-1 extinguished.	_____	_____	_____
	7. Position TR-22 to Bus 21 synchroscope selector switch to OFF.	Switch in OFF position.	_____	_____	_____
	8. Verify Bus 21 AMMETER and VOLTMETER indications are normal.	Verifies Bus 21 amps and volts are normal.	_____	_____	_____
<u>NOTE:</u>					
Amps may vary depending on conditions, and volts are normally ~ 4160.					
TRANSFER BUS 23 TO TR-22					
*	9. Position TR-22 to Bus 23 SYNCHROSCOPE selector switch to ON.	Switch in ON position.	_____	_____	_____
	10. Verify: INCOMING VOLTS and RUNNING VOLTS meters approximately equal. SYNCHRONIZING meter at 12 o'clock position and <u>NOT</u> rotating. SYNCHRONIZING meter lights <u>NOT</u> glowing.	Voltages approximately equal. Meter <u>NOT</u> rotating. White lights extinguished.	_____	_____	_____
BEGIN ALTERNATE PATH					
*	11. Position TR-22 to Bus 23 breaker control switch to CLOSE.	Breaker does NOT close.	_____	_____	_____

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment	
*	12.	IMMEDIATELY positions TR-22 to Bus 23 breaker control switch to OPEN (trip) AND notifies Unit Supervisor.	GREEN light illuminated.			_____
<u>CUE:</u>						
IF an Operator is dispatched to check the tripped breaker, report: "the breaker is open, with NO flags up".						
<u>NOTE:</u>						
Candidate should NOT proceed and trip TR-21 to Bus 23 breaker, as this will de-energize Bus 23.						
	13.	Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.			_____
<u>CUE:</u>						
Acknowledge report of task completion.						
			END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: AUX POWER - TRANSFER POWER TO TR-22 FROM TR-21 WITH BREAKER FAILURE

Revision Number: 01

JPM Number: S-N-f

Task Number and Title: 262L024, Transfer a 4160 volt bus between power supplies.

K/A Number and Importance: 262001.A4.04 3.6 / 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: 14 minutes **Actual Time Used:** _____ minutes

References: DOP 6500-01, rev 10

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. Unit 2 was operating at rated power when the TR-21 trouble alarm is received.
3. The NLO, dispatched to TR-21, reported that the TR-21 cooling fans are not all operating and the transformer temperature is rising.
4. The Unit Supervisor has decided to unload TR-21 by transferring auxiliary power to TR-22.
5. Another operator will verify TR-86 Load Tap Changer positions and loading remains below the restrictions of the procedure.

INITIATING CUE

1. The Unit Supervisor has directed you to transfer Bus 21 and Bus 23 to TR-22 from TR-21 in accordance with DOP 6500-01.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

RWM - ENTER SUBSTITUTE ROD POSITION

JPM Number: S-N-g

Revision Number: 05

Date: 09/10

Developed By: _____
Instructor **Date**

Approved By: _____
Facility Representative **Date**

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 04 Bank JPM.

Revision 05 Revised for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Desired substitute position for control rod N-07 is 48. (Check prior to inserting the malfunction below).
3. Enter the following Expert Command prior to starting this JPM.
 - IMF RDFAILN7 (RPIS failure for control rod N-07)
4. Acknowledge alarms and reset alarms.
5. Verify RWM operational and on Main Screen.

DOCUMENT PREPARATION

Markup a copy of DOP 0400-02.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 NSO.
2. Control Rod N-07 rod position has failed.
3. Control Rod N-07 was verified to be at position 48 prior to failure, and has NOT been moved.
4. The Control Rod has been currently verified to be at position 48.
5. The Rod Worth Minimizer is operational.
6. No other rods have had a substitute position assigned.

INITIATING CUE

1. Unit Supervisor has directed you to enter a substitute position of 48 for Control Rod N-07 in accordance with DOP 0400-02, step G.3.c.
2. Notify Unit Supervisor when the substitute position has been entered.

.....
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 examinee a copy of DOP 0400-02.				
1. Proceed to Step G.3.c.(1) of DOP 0400-02.	Proceeds to Step G.3.c.(1) of DOP 0400-02.	_____	_____	_____
* 2. Selects Secondary Functions, then Substitute Position screen	Substitute Position screen SELECTED.	_____	_____	_____
* 3. Selects control rod N-07 on the touch screen.	Control Rod N-07 outlined with blue box and shown on screen as SELECTED.	_____	_____	_____
* 4. Sets the desired Control Rod position on the bar graph on the left side of the screen.	POSITION SHOWN on top of position bar graph, reads 48.	_____	_____	_____
* 5. Touches the ENTER REQUEST box.	RWM accepts the request, rod N-07 position indication changes from ?? to substituted 48 position.	_____	_____	_____
6. Touches the EXIT FUNCTION box to return to the Main Display	RWM returns to the Main Display	_____	_____	_____
<u>CUE:</u>				
Respond as US when examinee informs you they have completed the task				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: RWM - ENTER SUBSTITUTE ROD POSITION
Revision Number: 05
JPM Number: S-N-g
Task Number and Title: 201L027, Enter Substitute Rod Position.

K/A Number and Importance: 201006.A4.06 3.2 / 3.2

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: DOP 0400-02, rev 23

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. Control Rod N-07 rod position has failed.
3. Control Rod N-07 was verified to be at position 48 prior to failure, and has NOT been moved.
4. The Control Rod has been currently verified to be at position 48.
5. The Rod Worth Minimizer is operational.
6. No other rods have had a substitute position assigned.

INITIATING CUE

1. Unit Supervisor has directed you to enter a substitute position of 48 for Control Rod N-07 in accordance with DOP 0400-02, step G.3.c.
2. Notify Unit Supervisor when the substitute position has been entered.

Exelon Nuclear

Job Performance Measure

OFF GAS - ALIGN CHARCOAL ADSORBER FILTERS IN SERIES MODE

JPM Number: S-N-h

Revision Number: 00

Date: 09/10

Developed By: _____
Instructor **Date**

Approved By: _____
Facility Representative **Date**

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM developed for 2010 NRC exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 12.

NOTE: It is acceptable to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. Verify the Charcoal Adsorbers are in PARALLEL mode of operation.

3. Setup the following Triggers:

- None.

DOCUMENT PREPARATION

Markup a copy of DOP 5400-05.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 Aux NSO.
2. The system engineer has completed data collection for the offgas system and requests returning the charcoal adsorbers to the series mode of operation from the parallel mode of operation.

INITIATING CUE

1. Unit Supervisor has directed you to align the charcoal adsorbers to the SERIES mode of operation in accordance with DOP 5400-05, step G.4.
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.

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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 DOP 5400-05.				
1. Proceeds to step G.4 of DOP 5400-05.	Locates step G.4 of the procedure (which then directs next step).	_____	_____	_____
2. Determines the correct step to utilize is step G.21 of DOP 5400-05.	Proceeds to step G.21 of the procedure.	_____	_____	_____
* 3. Close AO 2-5417, ADSORBER TRN 2 BYPASS VLV.	GREEN light illuminated.	_____	_____	_____
* 4. Close AO 2-5423, ADSORBER TRN 3 BYPASS VLV.	GREEN light illuminated.	_____	_____	_____
* 5. Open AO 2-5415, ADSORBER TRN 1 DISCH VLV.	GREEN light illuminated.	_____	_____	_____
* 6. Open AO 2-5421, ADSORBER TRN 2 DISCH VLV.	GREEN light illuminated.	_____	_____	_____
* 7. Close AO 2-5416, ADSORBER TRN 1 BYPASS VLV.	GREEN light illuminated.	_____	_____	_____
* 8. Close AO 2-5422, ADSORBER TRN 2 BYPASS VLV.	GREEN light illuminated.	_____	_____	_____
9. Notify Unit Supervisor of task completion.	Unit Supervisor notified of task completion.	_____	_____	_____
<u>CUE:</u>				
Acknowledge report of task completion.				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: OFF GAS - ALIGN CHARCOAL ADSORBER FILTERS IN SERIES MODE

Revision Number: 00

JPM Number: S-N-h

Task Number and Title: 271L005, Startup the Offgas Charcoal Adsorber system

K/A Number and Importance: 271000.A4.09 3.3 / 3.2

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: DOP 5400-05, rev 32

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. The system engineer has completed data collection for the offgas system and requests returning the charcoal adsorbers to the series mode of operation from the parallel mode of operation.

INITIATING CUE

1. Unit Supervisor has directed you to align the charcoal adsorbers to the SERIES mode of operation in accordance with DOP 5400-05, step G.4.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

LINEUP SBLC TEST TANK FOR ALTERNATE WATER INJECTION

JPM Number: S-N-i

Revision Number: 10

Date: 09/10

Developed By: _____
Instructor **Date**

Approved By: _____
Facility Representative **Date**

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 09 Bank JPM.

Revision 10 Revised for 2010 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

DOCUMENT PREPARATION

Markup a copy of DEOP 0500-03.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 2 has just scrammed.
3. A LOCA is causing RPV level to lower.
4. The Clean Demin Water system is operating normally.

INITIATING CUE

1. The Unit Supervisor has directed you to line up and inject using the Standby Liquid Control Test Tank with Clean Demin water per DEOP 0500-03, step G.4.
2. Inform the Unit Supervisor when the task is complete.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

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

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

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

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<p><u>NOTE:</u></p> <p>Provide the Examinee with the supplied copy of DEOP 0500-03.</p> <p>The examinee is NOT required to obtain a key to open or close locked valves.</p> <p>The examinee is required only to identify which type of key is required to open the valve.</p>				
1.	Proceeds to the Unit 2 Standby Liquid Control (SBLC) area.	Proceeds to the U2 SBLC area.	_____	_____
*	2. Unlock and close 2-1101-4, SBLC STORAGE TK OUTLET SV.	Unlock lock and removes chain, then rotates valve hand wheel full clockwise.	_____	_____
<p><u>CUE:</u></p> <p>The component is in the condition you have described.</p>				
*	3. Unlock and close 2-1199-37 SBLC STORAGE TK OUTLET SV.	Unlock lock and removes chain, then rotates valve handle 1/4 turn clockwise.	_____	_____
<p><u>CUE:</u></p> <p>The component is in the condition you have described.</p>				
*	4. Open 2-4315-500, CLEAN DEMIN WTR SUPPLY TO SBLC SV.	Rotates valve hand wheel full counter-clockwise.	_____	_____
<p><u>CUE:</u></p> <p>The component is in the condition you have described.</p>				
*	5. Open 2-1101-7, CLEAN DEMIN WTR TO SBLC TEST TK SV.	Rotates valve hand wheel full counter-clockwise.	_____	_____
<p><u>CUE:</u></p> <p>The component is in the condition you have described.</p>				

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
*	6. Unlock and open 2-1101-8, SBLC TEST TK OUTLET SV.	Unlock lock and removes chain, then rotates valve hand wheel full counter-clockwise.	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.					
<u>NOTE:</u>					
*	7. Start both SBLC pumps from the main Control Room.	Contacts the Unit 2 Control Room Operator to start the SBLC pumps.	_____	_____	_____
<u>CUE:</u> I have started both Unit 2 Standby Liquid Control pumps.					
	8. Throttle 2-1101-7, CLEAN DEMIN WTR TO SBLC TEST TK SV, to stabilize level in tank.	Opens / closes valve to maintain test tank level.	_____	_____	_____
<u>CUE:</u> The test tank level is now stabilized (as much going in as is going out).					
	9. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.					
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: LINEUP SBLC TEST TANK FOR ALTERNATE WATER INJECTION

Revision Number: 10

JPM Number: S-N-i

Task Number and Title: 295L088, Line Up SBLC Test Tank for Alternate Water Injection.

K/A Number and Importance: 295031.A1.08 3.8 / 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: 17 minutes **Actual Time Used:** _____ minutes

References: DEOP 0500-03, rev 19

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 2 has just scrammed.
3. A LOCA is causing RPV level to lower.
4. The Clean Demin Water system is operating normally.

INITIATING CUE

1. The Unit Supervisor has directed you to line up and inject using the Standby Liquid Control Test Tank with Clean Demin water per DEOP 0500-03, step G.4.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

EDG - MANUALLY FILL UNIT 2/3 EDG DAY TANK

JPM Number: S-N-j

Revision Number: 02

Date: 09/10

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.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

DOCUMENT PREPARATION

Markup a copy of DOA 6600-01.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Annunciator 902-8 G-4, Unit 2/3 Diesel Generator Day Tank Level HI / LO, has just annunciated.

INITIATING CUE

1. The Unit Supervisor has directed you to check the Unit 2/3 Diesel Generator Fuel Oil Day Tank level AND refill if necessary utilizing DOA 6600-01, attachment A.
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.

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

Job Performance Measure (JPM)

JPM Start Time: _____

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<u>NOTE:</u> Provide the Examinee with the supplied copy of DOA 6600-01.					
	1.	Proceeds to the 2/3 Diesel Generator Room.	Proceeds to the 2/3 Diesel Generator Room.	_____	_____
*	2.	Examinee checks the level in the D/G Fuel Oil Day Tank.	Observes day tank sightglass and determines day tank needs filling.	_____	_____
<u>CUE:</u> Point to the lower third area on the local sightglass measuring stick and state: " the level is here".					
<u>NOTE:</u> Normal level is 30 - 38".					
	3.	Verify that power is available to the DIESEL FUEL OIL TRANSFER PUMP 2/3.	Verifies power available, by local indicating lights illuminated.	_____	_____
<u>CUE:</u> The GREEN LIGHT is illuminated.					
*	4.	Start the Fuel Oil Transfer Pump by holding local Test Switch in the ON position.	Holds 2/3-5203 U2 Diesel Oil Transfer Pp c/s in ON position.	_____	_____
<u>CUE:</u> The pump is running. You have held the switch for approximately 5 minutes.					

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
*	5. Checks the level in the fuel oil day tank.	OBSERVES sight glass and/or REQUESTS annunciator 902-8 G-4 status.	_____	_____	_____
<u>CUE:</u> Point to the 35 inch mark on the local sightglass measuring stick and state: " the level is here". AND/OR the NSO says Control Room alarm 902-8 G-4 has reset.					
	6. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.					
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: : EDG - MANUALLY FILL UNIT 2/3 EDG DAY TANK

Revision Number: 02

JPM Number: S-N-j

Task Number and Title: 264LN00414, Discuss the steps involved in filling of Diesel Generator Day Tanks with Diesel Fuel Oil Storage Tank Transfer Pumps.

K/A Number and Importance: 264000.G.1.30 4.4 / 4.0

Suggested Testing Environment: In-Plant

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: DOA 6600-01, rev 15

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments: _____

Evaluator's Name (Print): _____

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Annunciator 902-8 G-4, Unit 2/3 Diesel Generator Day Tank Level HI / LO, has just annunciated.

INITIATING CUE

1. The Unit Supervisor has directed you to check the Unit 2/3 Diesel Generator Fuel Oil Day Tank level AND refill if necessary utilizing DOA 6600-01, attachment A.
2. Inform the Unit Supervisor when the task is complete.

Exelon Nuclear

Job Performance Measure

HVAC - VALVE IN CONTROL ROOM EMERGENCY BREATHING AIR

JPM Number: S-N-k

Revision Number: 11

Date: 09/10

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 10 Bank JPM.

Revision 11 Revised for 2010 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

DOCUMENT PREPARATION

Markup a copy of DOP 4650-01.

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Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are an extra NSO.
2. Control Room personnel have noticed a pungent odor in the Control Room.
3. The Control Room Ventilation is NOT operating properly and the smell is getting worse.
4. The Unit 3 Supervisor has evacuated ALL non-essential personnel from the Control Room and has directed all NSOs to don SCBAs.
5. The Control Room Emergency Air system is currently in STANDBY IAW DOP 4650-01.

INITIATING CUE

1. The Unit 3 Unit Supervisor has directed you to place the Control Room Emergency Breathing Air System Main Bank in operation in accordance with DOP 4650-01, step G.3.
2. Inform the Unit 3 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.

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The timeclock starts when the candidate acknowledges the initiating cue.

.....

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
<u>NOTE:</u>				
Provide the Examinee with the supplied copy of DOP 4650-01.				
1.	Proceeds to Emergency Breathing Air manifold in Unit 2 Battery Room.	Proceeds to Emergency Breathing Air manifold in Unit 2 Battery Room.	_____	_____
2.	Verify the following: <ul style="list-style-type: none"> • LP-1 CLOSED • LP-2 CLOSED • LP-3 CLOSED • LP-4 CLOSED 	Verifies valve handle perpendicular to valve body for: <ul style="list-style-type: none"> • LP-1 • LP-2 • LP-3 • LP-4 	_____	_____
*	3. OPEN all Main Bank Cylinder shutoff valves (Cylinders 7 through 13).	Turns hand wheels on cylinders 7-13 full counter clockwise.	_____	_____
<u>CUE:</u>				
The component is in the condition you have described.				
<u>NOTE:</u>				
Count cylinders from left to right to find cylinders 7-13.				
*	4. Check Main Bank pressure.	Reads pressure on PRV 3, CR EMER AIR BREATHING CYL OUTLET PRV. (right side gauge).	_____	_____
<u>NOTE:</u>				
Have examinee read actual pressure.				
<u>CUE:</u>				
If pressure is < 2000 psig, point to 2000 psig, on the gauge, and inform that pressure is here.				

Job Performance Measure (JPM)

	PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment
*	5. Pressurize the supply manifold from the Main Bank by opening LP-3, CR EMERG AIR BREATHING CYL SV.	OPENS valve LP-3 by turning valve handle counter clockwise 1/4 turn so handle is in-line with valve body	_____	_____	_____
<u>CUE:</u> The component is in the condition you have described.					
	6. Verify pressure regulator PRV-3 is maintaining manifold pressure >65 psig and <80 psig.	VERIFIES manifold pressure between 65 and 80 psig as read on CR EMER AIR BREATHING CYL OUTLET PRV. (left side gauge).	_____	_____	_____
<u>CUE:</u> If pressure is out of spec, point to 70 psig, on the gauge, and inform that pressure is here.					
<u>NOTE:</u> Have examinee read actual pressure.					
	7. Informs Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	_____	_____	_____
<u>CUE:</u> Acknowledge report of task completion.					
END					

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO SRO

JPM Title: VALVE IN CONTROL ROOM EMERGENCY BREATHING AIR

Revision Number: 11

JPM Number: S-N-k

Task Number and Title: 279M001, Valve in Control Room Breathing Air Supply.

K/A Number and Importance: 600000.A2.10 2.9 / 3.1

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: DOP 4650-01, 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 an extra NSO.
2. Control Room personnel have noticed a pungent odor in the Control Room.
3. The Control Room Ventilation is NOT operating properly and the smell is getting worse.
4. The Unit 3 Supervisor has evacuated ALL non-essential personnel from the Control Room and has directed all NSOs to don SCBAs.
5. The Control Room Emergency Air system is currently in STANDBY IAW DOP 4650-01.

INITIATING CUE

1. The Unit 3 Unit Supervisor has directed you to place the Control Room Emergency Breathing Air System Main Bank in operation in accordance with DOP 4650-01, step G.3.
2. Inform the Unit 3 Supervisor when the task is complete.