

Exelon Nuclear

Job Performance Measure

Initiate an Equipment Status Tag

JPM Number: A-N-1-R

Revision Number: 00

Date: 11/06

Developed By: _____

Instructor

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Center Desk NSO.
2. The 2B RBCCW pump breaker tripped (2A was successfully started).
3. The NLO in the field reported that the breaker has an “Overcurrent” flag up.
4. An AR (#55273150) has been generated for the trip.
5. Per DOA 6500-10, 4KV CIRCUIT BREAKER TRIP, the c/s needs to be placed in PTL.

INITIATING CUE

1. Unit Supervisor, B. Gumbel, has directed you to fill out an Equipment Status Tag (EST), for the Unit 2B RBCCW control switch.
2. Another NSO will hang the EST on the RBCCW control switch and fill out the Equipment Status Log.
3. No Abnormal Component Position Sheet (ACPS) is needed.
4. Give the EST to the Unit Supervisor when filled out.

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> Provide the examinee with a blank Equipment Status Tag and a marked up copy of OP-AA-108-101. The following steps may be filled out in any order</p>				
1. * Fills out the <u>Equipment #/Name</u> field.	Enters: 2B RBCCW Pump C/S (may also enter 3700)	_____	_____	_____
2. * Fills out the <u>Def./Condition</u> field.	Enters: Control Switch in PTL	_____	_____	_____
3. * Fills out the <u>AR #</u> field.	Enters: 55273150 (provided in initiating cues)	_____	_____	_____
4. * Fills out the <u>Reason</u> field.	Enters: Breaker Trip on overcurrent	_____	_____	_____
<p><u>NOTE:</u> The examinee may fill out the current date. This is optional.</p>				
5. Provides the Unit Supervisor the filled out EST.	Acknowledge report and take EST.	_____	_____	_____
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: Initiate an Equipment Status Tag

JPM Number: A-N-1-R

Revision Number: 00

Task Number and Title: 29900LP005, Given a condition for hanging an Equipment Status Tag and a copy of OP-AA-108-101, properly complete the card and log.

K/A Number and Importance: Generic.2.1.18 2.9 / 3.0

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: OP-AA-108-101, rev 04

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 Center Desk NSO.
2. The 2B RBCCW pump breaker tripped (2A was successfully started).
3. The NLO in the field reported that the breaker has an "Overcurrent" flag up.
4. An AR (#55273150) has been generated for the trip.
5. Per DOA 6500-10, 4KV CIRCUIT BREAKER TRIP, the c/s needs to be placed in PTL.

INITIATING CUE

1. Unit Supervisor, B. Gumbel, has directed you to fill out an Equipment Status Tag (EST), for the Unit 2B RBCCW control switch.
2. Another NSO will hang the EST on the RBCCW control switch and fill out the Equipment Status Log.
3. No Abnormal Component Position Sheet (ACPS) is needed.
4. Give the EST to the Unit Supervisor when filled out.

Exelon Nuclear

Job Performance Measure

Reactivation of an SRO License

JPM Number: A-N-1-S

Revision Number: 01

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 05-1 NRC Exam.

Revision 01 JPM revised for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

HANDOUT PREPARATION

1. Fill out OP-AA-105-102, Attachment 2 up to but not including Shift Manager Approval for a fictitious SRO License holder.
2. In the Hours on Shift table, enter 4 shifts of 8 hours as a Unit Supervisor. Enter 1 shift of 8 hours as the WEC supervisor.

Job Performance Measure (JPM)

INITIAL CONDITIONS

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

INITIATING CUE

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

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

Information For Evaluator’s Use:

UNSAT requires written comments on respective step.

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

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
<u>CUE:</u> Provide the Examinee the provided marked up copy of OP-AA-105-102.				
1. Review OP-AA-105-102, Attachment 2.	Reviews OP-AA-105-102, Attachment 2.	_____	_____	_____
2. * Check that Hours on Shift are applicable for license reactivation.	Notes that 8 hours listed in the Hours on Shift are for WEC Supervisor which does not count toward the 40 hours required.	_____	_____	_____
3. * Check that licensee has the required 40 hours.	Determines that licensee has ONLY 32 hours toward the required 40 hours.	_____	_____	_____
4. Report the results of the review to the Shift Operations Superintendent (SOS).	Returns without signing OP-AA-105-102, Attachment 2 to the SOS. Informs the SOS that the licensee's license CANNOT be reactivated due to insufficient hours on shift.	_____	_____	_____
<u>CUE:</u> As the SOS, acknowledge the report.				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: Reactivation of SRO License

JPM Number: A-N-1-S

Revision Number: 01

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

K/A Number and Importance: Generic.2.1.5 2.3 / 3.4

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

Estimated Time to Complete: 15 minutes **Actual Time Used:** _____ minutes

References: OP-AA-105-102, rev 08

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

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

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Verify Acceptance Criteria for Acoustic Monitor Based on Test Results

JPM Number: A-N-2-R

Revision Number: 01

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Bank JPM.

Revision 01 Revised for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

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

INITIATING CUE

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

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.
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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 completed copy of DOS 0250-06.				
1. Examinee reviews paperwork.				
2. * Examinee should identify data sheet valve 203-4B threshold volt is out of spec (see KEY).	Identifies out of spec value.	_____	_____	_____
3. * Examinee should identify data sheet valve 203-4F threshold volt is out of spec (see KEY).	Identifies out of spec value.	_____	_____	_____
4. * Examinee should identify data sheet valve 203-4C "Amber Light Out" step that should NOT be N/A'd (see KEY).	Identifies N/A'd step.	_____	_____	_____
5. * Examinee should identify data sheet valves 203-3C and 203-4F discharge temps are > 100°F difference (see KEY).	Identifies 2 temperatures > 100°F difference.	_____	_____	_____
<u>CUE:</u> Respond as needed, as the NLO in the field.				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: Verify Acceptance Criteria for Acoustic Monitor Based on Test Results

JPM Number: A-N-2-R

Revision Number: 01

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

K/A Number and Importance: Generic.2.1.7 3.7 / 4.4

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: DOS 0250-06, rev 13

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

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Reportability Determination

JPM Number: A-N-2-S

Revision Number: 01

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Bank JPM.

Revision 01 Revised for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit Supervisor.
2. An event has occurred resulting in the following conditions:
 - It is your first shift back after two days off.
 - One of the Reactor Operators informs you that they were convicted of a felony yesterday.

INITIATING CUE

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

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- 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 #
<p><u>NOTE:</u> Examinee locates a copy of Reportability Manual LS-AA-1110.</p>				
1. * Determines the event is reportable per SAF 1.41.	Determines the event is reportable per SAF 1.41, Felony Conviction of a Licensed Operator.	_____	_____	_____
2. * Determines the time limit to make a written report is 30 days.	Determines the time limit to make a written report is within 30 days of a felony conviction of a licensed operator.	_____	_____	_____
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: Reportability Determination

JPM Number: A-N-2-S

Revision Number: 01

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

K/A Number and Importance: Generic.2.1.1 3.7 / 3.8

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: Reportability Manual LS-AA-1110, rev 08

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 Supervisor.
2. An event has occurred resulting in the following conditions:
 - It is your first shift back after two days off.
 - One of the Reactor Operators informs you that they were convicted of a felony yesterday.

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Verify Reversal of Emergency Diesel Generator Cooling Water Flow

JPM Number: A-N-3-R

Revision Number: 00

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit 2 NSO.
2. DOS 6600-02, REVERSAL OF EMERGENCY DIESEL GENERATOR COOLING WATER FLOW, has just been completed on the Unit 2 EDG, for an annual PMT.
3. The NLO has brought the surveillance to the Control Room for verification.

INITIATING CUE

1. The Unit Supervisor directs you to verify the surveillance.
2. The in-field independent verification will be performed by another NLO.
3. Return the surveillance to the Unit Supervisor when complete.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- 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 #
<p><u>NOTE:</u> Provide the examinee the completed copy of DOS 6600-02.</p>				
1. Examinee reviews the paperwork.				
2. Examinee should identify step I.5.a as having an incorrect value.	Differential Pressure (DP) should be 4 .	_____	_____	_____
3. * Examinee should identify step I.15.a value as being above the Acceptance Criteria value (in step I.16).	Acceptance Criteria (AC) is < 6.0 psid .	_____	_____	_____
4. Reports the discrepancies to the Unit Supervisor	Acknowledge report.	_____	_____	_____
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: Verify Reversal of Emergency Diesel Generator Cooling Water Flow

JPM Number: A-N-3-R

Revision Number: 00

Task Number and Title: 26400LK003, Describe Emergency Diesel Generator surveillance testing, including frequency, types of starts, and duration runs.

K/A Number and Importance: Generic.2.2.12 3.0 / 3.4

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: DOS 6600-02, 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 2 NSO.
2. DOS 6600-02, REVERSAL OF EMERGENCY DIESEL GENERATOR COOLING WATER FLOW, has just been completed on the Unit 2 EDG, for an annual PMT for an annual PMT.
3. The NLO has brought the surveillance to the Control Room for verification.

INITIATING CUE

1. The Unit Supervisor directs you to verify the surveillance.
2. The in-field independent verification will be performed by another NLO.
3. Return the surveillance to the Unit Supervisor when complete.

Exelon Nuclear

Job Performance Measure

Verify Semi-Annual HRSS AFU Operability Test

JPM Number: A-N-3-S

Revision Number: 01

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 Bank JPM.

Revision 01 JPM revised for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You are the Unit2 Unit Supervisor.
2. DOS 8900-01 was performed, last shift, for Unit 2 HRSS AFU.
3. The NLO reported all surveillance requirements were within specifications .
4. The off-going Unit Supervisor was unable to verify the paperwork, and has turned it over to you (on-coming Field Supervisor)..

INITIATING CUE

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

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.
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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 student with the completed (simulated) and marked up DOS 8900-01.				
<u>NOTE:</u>				
The following steps may be identified in any order.				
1. Examinee reviews paperwork.				
2. * Examinee should identify, on data sheet 1, that the Filter Exhaust Fan 1 Delta CFM is NOT \geq 200 cfm.	Identifies that Delta CFM is 125 CFM.	_____	_____	_____
3. * Examinee should identify, on data sheet 1, that the Filter Exhaust Fan 2 dP is NOT < 6 inches.	Identifies that dP is 7 inches.	_____	_____	_____
4. * Examinee should identify step I.d.(1) that the acceptance criteria for pressure drop across AFU is NOT less than 6 inches of water, and should NOT have been signed off.	Identifies that the step should NOT have been signed off.	_____	_____	_____
5. Reports that the surveillance does NOT meet all acceptance criteria and may notify System Engineer.	Acknowledge report.	_____	_____	_____
	END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: Verify Semi-Annual HRSS AFU Operability Test

JPM Number: A-N-3-S

Revision Number: 01

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 3.0 / 3.4

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: DOS 8900-01, 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 the Unit2 Unit Supervisor.
2. DOS 8900-01 was performed, last shift, for Unit 2 HRSS AFU.
3. The NLO reported all surveillance requirements were within specifications .
4. The off-going Unit Supervisor was unable to verify the paperwork, and has turned it over to you (on-coming Field Supervisor)..

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Select Personnel for Radiation Work

JPM Number: A-N-4-R

Revision Number: 00

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 06-1 NRC Exam, modified from Quad Cities Bank.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You will be briefing NLOs to perform a Clearance Order First Hang in the RWCU Pump Room under RWP 10004555, with the following limits:
 - Daily dose limit of 100 mrem.
 - ED Dose alarm that is set for 80 mrem (80% of 100mrem).
 - ED Dose rate alarm that is set for 300 mrem.
2. Five NLOs are available this shift.
 - None of the five have received dose at any location other than Dresden Station.
 - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	Annual TEDE dose as of Midnight Today	DDE dose received on RWP 10004555 Today
Ben	1940 mrem	0 mrem
Larry	1500 mrem	35 mrem
Jim	1800 mrem	8 mrem
Steve	1900 mrem	5 mrem
Bob	1950 mrem	0 mrem

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

INITIATING CUE

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

Job Performance Measure (JPM)

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

Information For Evaluator's Use:

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The timeclock starts when the candidate acknowledges the initiating cue.

Job Performance Measure (JPM)

KEY

EVALUATOR: The candidate must determine that dose for the task will be 70 mrem and determine that only two NLO can receive the dose, necessary to complete the task. They are Jim and Steve. See the table below for projected job dose, 24 hour total dose on RWP 10004555, and total Annual TEDE dose for each Operator.

Calculation:

2 valves clearance (at RWCU Aux Pump) projected dose = 0.50 hr x 80 mr/hr = 40mrem

1 valve clearance (at 'A' RWCU Pump) projected dose = 0.25hr x 120 mr/hr = 30mrem

40mrem + 30 mrem = 70 mrem projected job dose for clearance order hanging

Name	DDE dose received on RWP 10004555 today	Annual TEDE dose as of Midnight Today	Projected dose on RWP 10004555 for the 24 hour period	Projected Annual TEDE (including all dose from last 24 hours)
Ben	0 mrem	1940 mrem	(0 + 70 =) <u>70 mrem</u>	(1940 + 70 =) 2010 mrem
Larry	35 mrem	1500 mrem	(35 + 70 =) 105 mrem	(1500 + 70 =) <u>1605 mrem</u>
Jim	8 mrem	1800 mrem	(8 + 70 =) <u>78 mrem</u>	(1800 + 70 =) <u>1878 mrem</u>
Steve	5 mrem	1900 mrem	(5 + 70 =) <u>75 mrem</u>	(1900 + 70 =) <u>1975 mrem</u>
Bob	0 mrem	1950 mrem	(0 + 70 =) <u>70 mrem</u>	(1950 + 70 =) 2020 mrem

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

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
<p><u>NOTE:</u></p> <p>Provide the examinee a copy of the attached survey map of the RWCU pump room.</p>				
<p><u>NOTE:</u></p> <p>The following steps may be performed in a any order.</p>				
<p>1. Reviews Survey Maps to determine area dose rates.</p>	<p>Reviews the survey maps and determines area dose rates to be 120 mr/hr for the first group of 2 valves and 80 mr/hr for the remaining valve.</p>	_____	_____	_____
<p><u>NOTE:</u></p> <p>The following calculations should be made:</p> <p style="margin-left: 40px;">2 valve clearance projected dose = 0.50 hr x 80 mr/hr = 40mrem</p> <p style="margin-left: 40px;">1 valve clearance projected dose = 0.25 hr x 120 mr/hr = 30mrem</p> <p style="margin-left: 40px;">Total projected dose for the job = 40mrem + 30 mrem = 70 mrem</p>				
<p>2. * Calculates that the projected dose that will be received for the task is 70 mrem.</p>	<p>Determines the NLO's will receive 40 mrem on the first 2 valves and 30 on the next 1.</p>	_____	_____	_____
<p><u>CUE:</u></p> <p>IF the candidate inquires at to whether or not any of the NLOs has received permission to exceed any dose limits, respond, "None of the Non Licensed Operators have received permission to exceed any limits".</p>				
<p><u>NOTE:</u></p> <p>The following steps may be performed in any order.</p>				
<p>3. * Determines that Ben CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.</p>	<p>Ben's total Annual dose would be <u>2010 mrem</u>.</p>	_____	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
4. * Determines that Larry CAN NOT perform the job because he would exceed the 100 mrem limit on RWP 10004555.	Larry's total dose on RWP 10004555 would be <u>105 mrem</u> .	_____	_____	_____
5. Determines that Jim CAN perform the job because no limits will be exceeded.	Jim's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
6. Determines that Steve CAN perform the job because no limits will be exceeded.	Steve's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
7. * Determines that Bob CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Bob's total Annual dose would be <u>2020 mrem</u> .	_____	_____	_____
	END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: RO

JPM Title: Select Personnel for Radiation Work

JPM Number: A-N-4-R

Revision Number: 00

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

K/A Number and Importance: Generic.2.3.4 2.5 / 3.1

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: RP-AA-203, rev 02

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 will be briefing NLOs to perform a Clearance Order First Hang in the RWCU Pump Room under RWP 10004555, with the following limits:
 - Daily dose limit of 100 mrem.
 - ED Dose alarm that is set for 80 mrem (80% of 100mrem).
 - ED Dose rate alarm that is set for 300 mrem.
2. Five NLOs are available this shift.
 - None of the five have received dose at any location other than Dresden Station.
 - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	Annual TEDE dose as of Midnight Today	DDE dose received on RWP 10004555 Today
Ben	1940 mrem	0 mrem
Larry	1500 mrem	35 mrem
Jim	1800 mrem	8 mrem
Steve	1900 mrem	5 mrem
Bob	1950 mrem	0 mrem

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

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Select Personnel for Radiation Work

JPM Number: A-N-4-S

Revision Number: 00

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 06-1 NRC Exam, modified from Quad Cities Bank.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. You will be briefing NLOs to perform a Clearance Order First Hang in the RWCU Pump Room under RWP 10004555, with the following limits:
 - Daily dose limit of 100 mrem.
 - ED Dose alarm that is set for 80 mrem (80% of 100mrem).
 - ED Dose rate alarm that is set for 300 mrem.
2. Five NLOs are available this shift.
 - None of the five have received dose at any location other than Dresden Station.
 - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	Annual TEDE dose as of Midnight Today	DDE dose received on RWP 10004555 Today
Ben	1940 mrem	0 mrem
Larry	1500 mrem	35 mrem
Jim	1800 mrem	8 mrem
Steve	1900 mrem	5 mrem
Bob	1950 mrem	0 mrem

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

INITIATING CUE

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

Job Performance Measure (JPM)

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

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

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

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

The timeclock starts when the candidate acknowledges the initiating cue.

Job Performance Measure (JPM)

KEY

EVALUATOR: The candidate must determine that dose for the task will be 70 mrem and determine that only two NLO can receive the dose, necessary to complete the task. They are Jim and Steve. See the table below for projected job dose, 24 hour total dose on RWP 10004555, and total Annual TEDE dose for each Operator.

Calculation:

2 valves clearance (at RWCU Aux Pump) projected dose = 0.50 hr x 80 mr/hr = 40mrem

1 valve clearance (at 'A' RWCU Pump) projected dose = 0.25hr x 120 mr/hr = 30mrem

40mrem + 30 mrem = 70 mrem projected job dose for clearance order hanging

Name	DDE dose received on RWP 10004555 today	Annual TEDE dose as of Midnight Today	Projected dose on RWP 10004555 for the 24 hour period	Projected Annual TEDE (including all dose from last 24 hours)
Ben	0 mrem	1940 mrem	(0 + 70 =) <u>70 mrem</u>	(1940 + 70 =) 2010 mrem
Larry	35 mrem	1500 mrem	(35 + 70 =) 105 mrem	(1500 + 70 =) <u>1605 mrem</u>
Jim	8 mrem	1800 mrem	(8 + 70 =) <u>78 mrem</u>	(1800 + 70 =) <u>1878 mrem</u>
Steve	5 mrem	1900 mrem	(5 + 70 =) <u>75 mrem</u>	(1900 + 70 =) <u>1975 mrem</u>
Bob	0 mrem	1950 mrem	(0 + 70 =) <u>70 mrem</u>	(1950 + 70 =) 2020 mrem

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

Job Performance Measure (JPM)

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
<u>NOTE:</u>				
Provide the examinee a copy of the attached survey map of the RWCU pump room.				
<u>NOTE:</u>				
The following steps may be performed in a any order.				
1. Reviews Survey Maps to determine area dose rates.	Reviews the survey maps and determines area dose rates to be 120 mr/hr for the first group of 2 valves and 80 mr/hr for the remaining valve.	_____	_____	_____
<u>NOTE:</u>				
The following calculations should be made: 2 valve clearance projected dose = 0.50 hr x 80 mr/hr = 40mrem 1 valve clearance projected dose = 0.25 hr x 120 mr/hr = 30mrem Total projected dose for the job = 40mrem + 30 mrem = 70 mrem				
2. * Calculates that the projected dose that will be received for the task is 70 mrem.	Determines the NLO's will receive 40 mrem on the first 2 valves and 30 on the next 1.	_____	_____	_____
<u>CUE:</u>				
IF the candidate inquires at to whether or not any of the NLOs has received permission to exceed any dose limits, respond, "None of the Non Licensed Operators have received permission to exceed any limits".				
3. * Determines that Ben CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Ben's total Annual dose would be <u>2010 mrem</u> .	_____	_____	_____
4. * Determines that Larry CAN NOT perform the job because he would exceed the 100 mrem limit on RWP 10004555.	Larry's total dose on RWP 10004555 would be <u>105 mrem</u> .	_____	_____	_____

Job Performance Measure (JPM)

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
5. Determines that Jim CAN perform the job because no limits will be exceeded.	Jim's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
6. Determines that Steve CAN perform the job because no limits will be exceeded.	Steve's total RWP dose and Annual dose will remain below the limits.	_____	_____	_____
7. * Determines that Bob CAN NOT perform the job because he would exceed the 2000 mrem Exelon Annual limit.	Bob's total Annual dose would be <u>2020 mrem</u> .	_____	_____	_____
	END			

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: Select Personnel for Radiation Work

JPM Number: A-N-4-S

Revision Number: 00

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

K/A Number and Importance: Generic.2.3.4 2.5 / 3.1

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

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

Time Critical: Yes No

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

References: RP-AA-203, rev 02

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 will be briefing NLOs to perform a Clearance Order First Hang in the RWCU Pump Room under RWP 10004555, with the following limits:
 - Daily dose limit of 100 mrem.
 - ED Dose alarm that is set for 80 mrem (80% of 100mrem).
 - ED Dose rate alarm that is set for 300 mrem.
2. Five NLOs are available this shift.
 - None of the five have received dose at any location other than Dresden Station.
 - None of the five have received dose since midnight on any RWPs other than 10004555.
3. The Radiation Protection Department has provided the attached Survey map, and the following dose history for the five NLOs to assist you in your planning:

Name	Annual TEDE dose as of Midnight Today	DDE dose received on RWP 10004555 Today
Ben	1940 mrem	0 mrem
Larry	1500 mrem	35 mrem
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Steve	1900 mrem	5 mrem
Bob	1950 mrem	0 mrem

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

INITIATING CUE

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

Exelon Nuclear

Job Performance Measure

Determine EP Classification and Fill out NARS form

JPM Number: A-N-5-S

Revision Number: 00

Date: 11/06

Developed By: _____
Instructor Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

Revision Record (Summary)

Revision 00 New JPM created for ILT 06-1 NRC Exam.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. None, this is a tabletop JPM.

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. This is a time critical JPM.
2. You are the Shift Emergency Director.
3. An event has occurred, resulting in the following conditions:
 - An overcurrent condition occurred on Bus 21, and RPV water level dropped to -22 inches.
 - No control rods inserted when the scram signal was received.
 - The NSO attempted a manual scram and ARI, with both being unsuccessful.
 - RPV water level is currently -170 inches.
 - Reactor power is 45%.
 - Drywell Pressure is currently 17 psig.
 - Torus Temperature is 123°F.
 - Drywell Temperature is 291°F.
 - Drywell Radiation Monitors are reading 30R/hr.

INITIATING CUE

1. Determine the emergency classification.
2. Ignore discretionary EALs.

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 #
1. * Determines final classification of a GENERAL Emergency.	Determines highest classification is a GENERAL Emergency per EAL MG3 .	_____	_____	_____
2. * Properly fills out NARS form.	See attached key.	_____	_____	_____
<u>NOTE:</u>				
EAL Threshold value: Failure of BOTH automatic and manual SCRAMs to establish shutdown criteria. (Auto and manual SCRAM not successful and loss of core cooling or heat sink).				
END				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: SRO

JPM Title: Determine EP Classification and Fill out NARS form

JPM Number: A-N-5-S

Revision Number: 00

Task Number and Title: Perform the duties of the Shift Emergency Director

K/A Number and Importance: Generic.2.4.38 2.2 / 4.0

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: EP-AA-1004, rev 22

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. This is a time critical JPM.
2. You are the Shift Emergency Director.
3. An event has occurred, resulting in the following conditions:
 - An overcurrent condition occurred on Bus 21, and RPV water level dropped to -22 inches.
 - No control rods inserted when the scram signal was received.
 - The NSO attempted a manual scram and ARI, with both being unsuccessful.
 - RPV water level is currently -170 inches.
 - Reactor power is 45%.
 - Drywell Pressure is currently 17 psig.
 - Torus Temperature is 123°F.
 - Drywell Temperature is 291°F.
 - Drywell Radiation Monitors are reading 30R/hr.

INITIATING CUE

1. Determine the emergency classification.
2. Ignore discretionary EALs.