

FINAL AS-ADMINISTERED ADMINISTRATIVE JPMS

FOR THE DRESDEN INITIAL EXAMINATION - JUNE 2002

Nuclear Generation Group

Job Performance Measure

Determine if Jet Pump Flow Meets Requirements

JPM Number: A.1.a-RO

Revision Number: 00

Date: 03/15/02

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. A unit startup is in progress for Unit 2.
2. Reactor power is about 52% and has been steady for 2 hours.
3. Recirculation pump speeds are 55% for pump 2A and 56% for pump 2B.
4. The POWERPLEX computer is NOT operable.
5. You are the Unit 2 Assistant NSO.
6. The Unit 2 NLO has just obtained jet pump data from the Auxiliary Electrical Equipment Room.

INITIATING CUE

You have been directed by the Unit 2 Supervisor to perform the individual jet pump flow surveillance in accordance with DOS 0202-02.

Inform the Unit 2 Supervisor when the task is completed.

Job Performance Measure (JPM)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Provide examinee with clean copy of DOS 0202-02 and marked up copy of Data Sheet 1 from DOS 0202-02.</p> </div>					
1.	Determines that surveillance is to be performed in accordance with DOS 0202-02, step I.2.	Examinee determines that surveillance is performed in accordance with DOS 0202-02, step I.2.	—	—	—
2.	Record loop A and loop B RECIRC pump speeds (percent) under Speed A or Speed B.	Examinee records 55% under SA and 56% under SB on Data Sheet 1.	—	—	—
*3.	Add the readings for the jet pumps in each loop and divide by the number of operable jet pump indications for the loop to obtain loop average jet pump AND record this loop average flow value.	Examinee records 4.48 under "LOOP A AVG" and 4.48 under "LOOP B AVG."	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>Note: See attached KEY for normalized jet pump flow values.</p> </div>					
*4.	Normalize jet pump flows by dividing each individual jet pump flow by the loop average AND record normalized value on Line 2.	Examinee divides each individual jet pump flow by the loop average and records value on Line 2.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>Note: When the examinee locates the Operator Aids to be used for this surveillance provide them with copies of Operator Aids 18, 19, and 20.</p> </div>					

Job Performance Measure (JPM)

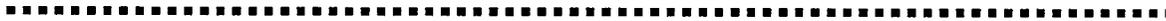
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
5.	Compare the normalized jet pump readings to the appropriate characteristic graph.	Examinee compares normalized jet pump readings to characteristic graph for "Unit 2 Jet Pump Baseline Data, RECIRC Pump Speeds less than 60 percent." [Operator Aid 20]	—	—	—
*6.	Record on Line 3 whether each jet pump falls within the allowable range.	Examinee records YES on Line 3 for all jet pumps except #5 and #19.	—	—	—
*7.	IF any jet pump is outside the allowable range, THEN: <ol style="list-style-type: none"> 1. Notify Unit Supervisor 2. Notify QNE to evaluate data. 	Examinee notifies Unit 2 Supervisor and QNE that jet pumps #5 and #19 failed the surveillance.	—	—	—

Note: The critical part of Step 7 is notifying the Unit Supervisor.

CUE: Acknowledge reports.

The JPM is considered complete at this time.

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Verify Off-Site Power Sources Available

JPM Number: A.1.b-RO

Revision Number: 00

Date: 03/16/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Unit 2 and 3 are at near rated conditions.
2. The U2 EDG was declared inoperable 10 minutes ago following a failed surveillance.
3. You are the Unit 2 Assistant NSO.

INITIATING CUE

The Unit 2 Supervisor has just directed you to verify offsite power availability with the U2 EDG inoperable, in accordance with Appendix X, Attachment 3 as required by Technical Specifications 3.8.1, Action Condition B.1.

The Unit 3 Assistant NSO has already collected the data for Unit 3.

Inform the Unit 2 Supervisor when the surveillance is complete.

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

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

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: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<div style="border: 1px solid black; padding: 5px;"> <p>Note: The examinee is to be given a clean copy of Appendix X and a copy of Attachment 3 with the data for Unit 3 complete.</p> </div>					
*1.	Record actual breaker positions and bus voltages.	Examinee records actual breaker positions and bus voltages, and initials Attachment 3.	___	___	___
*2.	Indicate Acceptance Criteria met.	Examinee circles "YES" for Acceptance Criteria met.	___	___	___
*3.	Enter Signature, Date, and Time, for "Performed by."	Examinee enters signature, date, and time for "Performed by." This must be completed within 50 minutes of start of JPM.	___	___	___
4.	Notify Unit 2 Supervisor that the surveillance is complete.	Examinee notifies Unit 2 Supervisor that the surveillance is complete.	___	___	___
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: Acknowledge report.</p> <p>The JPM is considered complete at this time.</p> </div>					

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Perform NSO Actions for a Short Duration Time Clock

JPM Number: A.2-RO

Revision Number: 00

Date: 03/16/02

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Reactor power is approximately 88%.
2. IMD will be performing DIS 0500-05, Unit 2 Scram Discharge Volume Sensor Calibration and Functional Tests, for Unit 2 scram discharge volume level switch LS 2-0302-82A. No other testing is in progress
3. You are the Unit 2 NSO.
4. You have been provided Attachment 1, Short Duration Time Clock, which has been partially filled in.

INITIATING CUE

IMD will perform DIS 0500-05, the Unit 2 Supervisor has directed you to log and monitor the performance of this surveillance.

Inform the Unit 2 Supervisor when the testing for LS 2-0302-82A is complete.

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

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

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: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	<p>Note: Provide the examinee with OP-AA-108-104 and the partially filled in Attachment 1 form OP-AA-108-104.</p> <p>The RO will be performing the actions of section 4.6 through 4.7.1 of OP-AA-108-104</p>				
	<p>CUE: It is 0720 and the IMD "B" man in the control room has just informed you that testing is commencing.</p>				
	<p>Note: Steps 1, 2, and 3 may be performed in any order.</p>				
	<p>1. Enter Tech Spec on the Short Duration Time Clock Log.</p>	Examinee records 3.3.1.1			
	<p>2. Starts an electronic clock.</p>	Examinee starts an electronic clock to alarm after a time of 5.5 hours.	—	—	—
	<p>*3. Enter Time Clock Start Time on the Short Duration Time Clock Log.</p>	Examinee records "0720" on the Short Duration Time Clock Log.	—	—	—
	<p>Note: Time compression will be used in this JPM.</p>				
	<p>CUE: 5.5 hours have just elapsed and the electronic clock alarm has just alarmed.</p>				

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*4.	Contact the IMD "B" man in the control room to determine the surveillance status.	Examinee contacts IMD "B" man to determine if testing can be completed within the 6 hour time frame.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: The IMD "B" man in the control room informs you that the testing will be completed in 10 minutes.</p> </div>					
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: It is 1300 and the IMD "B" man has just reported that the testing is complete.</p> </div>					
*5.	Complete the Short Duration Time Clock Log.	Examinee lists the time clock is stopped and initials log as complete.	—	—	—
6.	Notify Unit 2 Supervisor that testing is complete.	Examinee notifies Unit 2 Supervisor that testing for LS 2-0302-82A is complete.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: Acknowledge report.</p> <p>The JPM is considered complete at this time.</p> </div>					

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Locate Valve and Determine Requirements for Entering RCA

JPM Number: A.3-RO

Revision Number: 00

Date: 03/17/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Following maintenance, it was reported that valve 2-0205-22 appeared to have packing leakage.
2. The Shift Manager is unable to obtain any more information regarding the packing leakage.
3. The logs do NOT indicate the location of the valve.
4. You are the Unit 2 Assistant NSO.

INITIATING CUE

The Shift Manager has informed you that you and the Shift Manager will be going to investigate the leakage.

He directs you to:

1. Find the location of valve 2-0205-22.
2. Determine the protective clothing requirements enter the area of valve 2-0205-22.
3. Determine what type of briefing is required to enter the area of valve 2-0205-22.

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



Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section 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.

Job Performance Measure (JPM)

The timeclock starts when the candidate acknowledges the initiating cue.



JPM Start Time: ___

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Valve location can be determined from a number of sources, such as PASSPORT or DOP 0220-M1/E1 page 2 of 4.</p> </div>				
*1.	Determine location of valve 2-0205-22.	Examinee determines that valve 2-0205-22 is in the RWCU Demin Pipeway.	___	___	___
	<div style="border: 1px solid black; padding: 5px;"> <p>Note: WHEN the examinee asks RP for the survey map of the area, THEN provide the map attached to this JPM.</p> <p>WHEN the examinee asks RP for the RWP's for the job THEN provide RWP's #10000910 and #10000967 attached to this JPM.</p> <p>If the student asks for the procedure for Control of High and Very High Radiation Areas, RP-AA-460, provide them with a copy.</p> </div>				
2.	Proceeds to RP Office and reviews survey data for the applicable area and determines the RCA type.	Examinee obtains latest survey map and determines that U2 RWCU Demin Pipeway is a Locked High Rad Area (LHRA) and a Contamination Area.	___	___	___

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Steps 3 and 4 may be performed in any order.</p> </div>					
*3.	Examinee reviews RWPs and survey maps and determines proper protective clothing requirements.	Determines that a (Zone 3) Full set of protective clothing is required with a Waterproof outer layer.	—	—	—
*4.	States briefing requirements to enter a Locked High Rad Area (in accordance with RP-AA-460, step 4.7.1)	Determines a briefing from Radiation Protection is required.	—	—	—
5	Informs Shift Manager of valve location, clothing and briefing requirements.	Informs shift manager of information from steps 1, 3 and 4.			
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: The JPM is considered complete at this time.</p> </div>					

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Estimating the Post Accident Noble Gas Activity

JPM Number: A.4-RO

Revision Number: 00

Date: 03/16/02

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. A transient has occurred, resulting in entry into DEOP 300-2.
2. The Eberline SPING-4 System is operable.
3. Annunciator 923-7 A-3, U2/3 Chimney Noble Gas HI-HI is in alarm.
4. Core damage is NOT suspected.
5. U2/3 Main Chimney Spring Recorder 2/3 1740-202 is reading approximately 12,000 on the low range.
6. You are the Unit 2 Assistant NSO.

INITIATING CUE

You have been directed by the Unit 2 Supervisor to calculate the 2/3 Chimney release rate per DOP 1700-10, for DEOP and GSEP classification of the release.

Inform the Unit 2 Supervisor when you have determined the 2/3 Chimney release rate.

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

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section 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: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>Note: Provide examinee with a clean copy of DOP 1700-10, Rev. 07.</p>					
<p>Note: The SPING is currently not working in the simulator. The portion of this JPM involving the SPING will be simulated. A CUE will be provided at the appropriate step to inform the examinee.</p>					
1.	GO TO Step G.4.	Examinee proceeds to procedure step G.4.	___	___	___
2.	Complete the following on Data Sheet 1 (Section):				
	a. Date and time. (1.a)	Examinee enters current data and time on Data Sheet 1, step 1.a.	___	___	___
	b. Reason for calculation. (1.b)	Examinee checks "DEOP" and "EPIP" on Data Sheet 1, step 1.b.	___	___	___
	c. SPING Monitor used. (1.c)	Examinee checks "2/3 Chimney" on Data Sheet 1, step 1.c.	___	___	___
	d. SPING-4 detector channel used. (1.d)	Examinee checks "Low Range" on Data Sheet 1, step 1.d.	___	___	___
3.	Verify the SPING-4 is receiving proper flow data as follows:				
	a. Obtain the desired flow rate value from the process computer.	Examinee obtains 2/3 chimney flow rate using OD-50, Option 1, Point F-281.	___	___	___

CUE: The flow rate is 341 kcfm.

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	b. Multiply (flow rate value) by 1000 to obtain cfm.	Examinee multiplies 341 kcfm by 1000 to obtain 341,000 cfm.	—	—	—
*	c. Record (data from previous 2 steps) on Data Sheet 1, 2.a.	Examinee records “341” for computer flow rate and “341,000” for cfm in Data Sheet 1, step 2.a.	—	—	—
<div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <p>CUE: The SPING is currently not working in the simulator. This portion of the JPM will be simulated. Describe in detail any action you would be performing.</p> </div>					
	4. Obtain the U-2/3 Chimney flow rate (cfm) from the CT and record as follows:				
	a. Verify the COMMAND ENABLE key is in the ENABLE position.	Examinee verifies COMMAND ENABLE key in the ENABLE position.	—	—	—
<div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <p>CUE: The COMMAND ENABLE key is in the ENABLE position</p> </div>					
	b. Press: [DATA] [field unit number] [-] [10] [ENTER] [PRINT] [FILE] [ENTER].	Examinee simulates pressing [DATA] [5] [-] [10] [ENTER] [PRINT] [FILE] [ENTER] on the control terminal.	—	—	—
<div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <p>CUE: The printer prints out the following. Hand the examinee Sheet # 1</p> </div>					
*	c. Record the value from the printer on Data Sheet 1, 2.b.	Examinee records “340,000” on Data Sheet 1, step 2.b.	—	—	—

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
5.	Calculate the difference between the computer point flowrate and CT flowrate on lines 2c and 2d of Data Sheet 1.				
	a. Subtract the smaller from the larger: (Step 2.c)	Examinee subtracts "340,000" from "341,000" and obtains "1,000" on Data Sheet 1, step 2.c.	—	—	—
*	b. Divide the result of Step 2.c above by the larger of the two numbers AND multiply by 100:	Examinee divides "1,000" by "341,000" and multiplies by 100 to obtain .29%.	—	—	—

Note: Since the flow rates are within 10%, the examinee should then proceed with the release rate calculation step G.6.

6.	To obtain the Release Rate from the Eberline Control Terminal:				
	a. Press: [Hist 10 Min] [field unit number] [-] [channel number] [ENTER]	Examinee presses [Hist 10 Min] [5] [-] [5] [ENTER].	—	—	—
	b. Press the [-] key once, the release rate prompt will appear on the LCD.	Examinee presses [-] key once to display the release rate prompt.	—	—	—

CUE: The release rate prompt appears

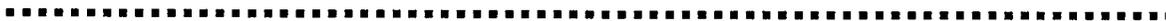
	c. Press [ENTER].	Examinee presses [ENTER].	—	—	—
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CUE: (If asked) The LCD does NOT request exhaust flow

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	d. Press: [PRINT] [FILE] [ENTER]	Examinee presses [PRINT] [FILE] [ENTER]	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: The printer prints out the following. Hand the examinee Sheet # 2</p> </div>					
	* e. Record the latest value on Data Sheet 1, 3.a.	Examinee records "1.29 E7" on Data Sheet 1, step 3.a			
	* f. Divide value in 3.a. by 60 and record on Data Sheet 1, 3.b.	Examinee divides "1.29 E7" by 60 and records "2.15 E5" on Data Sheet 1, step 3.b. Answer must be less than 8.5 E5 and greater than 1.7 E5	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Answer acceptance criteria is based on providing the correct number to the Unit Supervisor to ensure the correct GSEP classification is made.</p> </div>					
	7. Signs and dates Data Sheet 1.	Examinee signs and dates Data Sheet 1 on the "Calculated by" line.			
	8. Report the 2/3 Chimney release rate to the Unit 2 Supervisor.	Examinee reports 2/3 Chimney release rate (results of step 6.e) to Unit 2 Supervisor.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: Report acknowledged. The JPM is considered complete at this time.</p> </div>					

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Review Faulted Jet Pump Operability Surveillance

JPM Number: A.1.a-SRO

Revision Number: 00

Date: 03/17/02

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. A unit startup is in progress for Unit 2.
2. Reactor power is about 52% and has been steady for about 2 hours.
3. Recirculation pump speeds are 55% for pump 2A and 56% for pump 2B.
4. The POWERPLEX computer is NOT operable.
5. You are the WEC Supervisor.
6. The Unit 2 NSO has just completed Data Sheet 1 of DOS 0202-02, Jet Pump Operability and Degradation.

INITIATING CUE

You have been directed by the Shift Manager to independently verify the individual jet pump flow surveillance.

Inform the Unit 2 Supervisor when the task is completed.

Job Performance Measure (JPM)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Provide examinee with a clean copy of DOS 0202-02 and a marked up copy of Data Sheet 1 from DOS 0202-02.</p> </div>					
*1.	Verify loop A and loop B RECIRC pump speeds (percent) recorded under Speed A or Speed B.	Examinee verifies that 55% was entered under SA and 56% was entered under SB on Data Sheet 1.	—	—	—
*2.	Add the readings for the jet pumps in each loop and divide by the number of operable jet pump indications for the loop to obtain loop average jet pump AND verify this was recorded as loop average flow value.	Examinee verifies that 4.48 was recorded under “LOOP A AVG” and that 4.48 was recorded under “LOOP B AVG.”	—	—	—
*3.	Normalize jet pump flows by dividing each individual jet pump flow by the loop average AND verify these normalized values were recorded Line 2.	Examinee divides each individual jet pump flow by the loop average and verifies agreement with all values recorded on Line 2 EXCEPT for jet pumps #5 and #19.	—	—	—
		Examinee determines normalized value of 1.09 for jet pumps #5 and #19.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: IF examinee reports errors, then acknowledge report and direct examinee to continue with the verification.</p> </div>					
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Provide examinee with copies of Operator Aids 18, 19, and 20.</p> </div>					

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
4.	Compare the normalized jet pump readings to the appropriate characteristic graph.	Examinee compares normalized jet pump readings to characteristic graph for "Unit 2 Jet Pump Baseline Data, RECIRC Pump Speeds less than 60 percent." [Operator Aid #20]	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>Note: Line 3 has been marked YES for all jet pumps but the jet pumps #5 and #19 DO NOT meet the acceptance criteria.</p> </div>					
*5.	Verify that it was recorded on Line 3 whether each jet pump falls within the allowable range.	Examinee verifies agreement with YES on Line 3 for all jet pumps EXCEPT #5 and #19.	—	—	—
*6.	IF any jet pump is outside the allowable range, THEN: <ol style="list-style-type: none"> 1. Notify Unit Supervisor 2. Notify QNE to evaluate data. 	Examinee notifies Unit 2 Supervisor and QNE that jet pumps #5 and #19 failed the surveillance.	—	—	—

CUE: Acknowledge reports.

The JPM is considered complete at this time.

JPM Stop Time: _____

Nuclear Generation Group

Job Performance Measure

Evaluate Overtime of Operators and Complete Required Documentation for Exceeding Allowable Limits

JPM Number: A.1.b-SRO

Revision Number: 00

Date: 03/17/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Unit 2 is at near rated conditions.
2. You are the Unit 2 Shift Supervisor.
3. Personnel have been working extensive overtime to cover absences due to a severe flu epidemic.
4. It is 1530 on Saturday and several NSOs have called in sick for Sunday dayshift.
5. The Duty Shift Manager is in the Main Control Room.

INITIATING CUE

Two (2) NSOs must be called in to work eight (8) for Sunday dayshift to provide for minimum staffing.

The Shift Manager has directed you to determine which operators should be contacted, notify the WEC to contact the operators, and to obtain approval for any overtime guideline deviations, if required per LS-AA-119 "Overtime Controls"

Notify the Shift Manager when coverage has been arranged for Sunday dayshift.

The following work hour data has been obtained from Passport:

List of NSOs Available for Sunday Dayshift

1. NSOs are listed in order of overtime hours, from lowest to highest.
2. All hours worked started at 0700.
3. All hours worked were as panel operators, unless indicated by * for training.
4. Hours listed are actual hours worked with turnover time already subtracted.

Operator	MON	TUE	WED	THU	FRI	SAT
Joe	8*	10	12	12	12	12
Bill	8	12	12	12	12	12
Dave	8	12	12	12	8	8
John	8	10	12	12	12	8
Bob	8*	12	12	12	12	12

Job Performance Measure (JPM)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
	Note: Give examinee a copy of LS-AA-119, "Overtime Controls"				
	Note: If asked by the examinee the list of operators provided is the "asking order"				
*1.	Ask individual to work with lowest number of overtime hours who will not exceed the overtime guidelines.	Examinee notifies WEC to contact Dave for overtime.	—	—	—
	CUE: Acknowledges that Dave should be contacted for overtime.				
	CUE: Report that Dave has volunteered for Sunday dayshift overtime.				
*2.	Ask next individual to work with lowest number of overtime hours who will not exceed the overtime guidelines.	Examinee notifies WEC to contact John for overtime.	—	—	—
	CUE: Acknowledges that John should be contacted for overtime.				
	CUE: Report that John is out of state and his return flight is tomorrow afternoon .				
*3.	Ask individual with the lowest number of overtime hours to work.	Examinee notifies WEC to contact Joe for overtime.	—	—	—
	CUE: Acknowledges that Joe should be contacted for overtime.				

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
	CUE: Report that Joe has volunteered for Sunday dayshift overtime.				
*4.	Fill out Overtime Guideline Deviation Authorization form for individual exceeding GL 82-12 guidelines.	Examinee fills out Overtime Guideline Deviation Authorization form for Joe: <ul style="list-style-type: none"> • *Name: Joe • Department: Operations • *GL 82-12 Guideline Exceeded: D • Time and Date Overtime Limit will be Exceeded: 1300 / SUN • *Description of safety-related work: Panel operation • Justification: flu epidemic 	—	—	—
5.	Obtain review of Overtime Guideline Deviation Authorization form.	Examinee obtains review from Shift Manager.	—	—	—
	CUE: When asked, state that Shift Manager has signed Overtime Guideline Deviation Authorization form for review.				
6.	Obtain approval of Overtime Guideline Deviation Authorization form.	Examinee obtains approval from the Duty Station Manager.	—	—	—

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	<div style="border: 1px solid black; padding: 5px;"> <p>CUE: When asked, state that Duty Station Manager has signed Overtime Guideline Deviation Authorization form for approval.</p> </div>				
7.	Notify Shift Manager that arrangements have been completed for Sunday dayshift overtime.	Examinee notifies Shift Manager that operators have volunteered and approval obtained from the Duty Station Manager.	___	___	___
	<div style="border: 1px solid black; padding: 5px;"> <p>CUE: Acknowledge report. The JPM is considered complete at this time.</p> </div>				

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Review and Approve a Temporary Modification

JPM Number: A.2

Revision Number: 00

Date: 03/20/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Unit 3 is operating at near rated conditions.
2. You are the Unit 3 Supervisor.
3. PASSPORT is unavailable.
4. Temporary Modification 9900711 is ready for installation.

INITIATING CUE

The Shift Manager has directed you to review Temporary Modification 9900711 and authorize it for installation.

Inform the Shift Manager after you have authorized installation.

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

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section 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: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	<p>Note: The examinee should review the Temporary Modification and then authorize it for installation by checking items 1 - 4 under OPERATIONS APPROVAL for PERFORMING TCCP INSTALLATION on Attachment 3 of CC-MW-112-1001.</p> <p>Provide examinee with TCCP package.</p> <p>If examinee requests copies of CC-AA-112 and/or CC-MW-112-1001 provide them with copies.</p>				
1.	Verify that Administrative Controls are in place.	Examinee checks box labeled "Yes" or "NA"	___	___	___
*2.	Verify whether there are any electrical circuits energized during TCCP installation.	Examinee checks box labeled "NO"	___	___	___
*3.	Verify that TCC Tag List has been completed.	Examinee checks box labeled "YES" after verifying TCC Tag List (Attachment 8) has been properly filled out.	___	___	___
*4.	Verify that Temporary Change Tracking Log has been completed.	Examinee checks box labeled "YES" after filling out Block 6 of Temporary Change Tracking Log sheet. (Attachment 5)	___	___	___
*5.	Print name/Signs and dates authorizing TCCP installation	Examinee prints and signs name and fills in date authorizing TCCP installation.	___	___	___

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
	<div style="border: 1px solid black; padding: 5px;"> <p>Note: The critical portion of step 5 is that their name and the date is recorded on the form. It is NOT critical that they print and sign their name.</p> </div>				
6.	Notify Shift Manager that Temporary Modification 9900711 has been authorized for installation.	Notifies Shift Manager that Temporary Modification 9900711 has been authorized for installation.	—	—	—
	<div style="border: 1px solid black; padding: 5px;"> <p>CUE: Acknowledge report.</p> <p>The JPM is considered complete at this time.</p> </div>				

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Review Liquid Radwaste Discharge Permit

JPM Number: A.3-SRO

Revision Number: 00

Date: 03/17/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. Radwaste is preparing to discharge the waste surge tank to the river.
2. The liquid effluent discharge monitor is operable.
3. You are the Unit 2 Supervisor.

INITIATING CUE

You have been directed by the Shift Manager to review the Waste Surge Tank Radioactive Waste Discharge to River Card for a discharge of the waste surge tank.

Data from the Chemistry River Discharge Card is as follows:

Total Gamma MPC Fraction	0.671
Total MPC/ECL Fraction	7.90
Total Isotopic Activity	6.04E+3

The River Discharge Monitor calibration constant is 0.455.

Inform the Shift Manager when your review is complete.

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

.....

Job Performance Measure (JPM)

JPM Start Time: _____

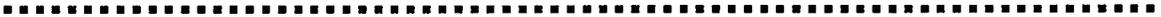
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	<div style="border: 1px solid black; padding: 5px;"> <p>Note: Provide examinee with the marked up Waste Surge Tank Radioactive Waste Discharge to River Card and a copy of DOP 2000-110.</p> </div>				
*1.	Divide dilution flow by Total MPC/ECL fraction multiplied by ten to obtain Authorized Discharge Rate.	Examinee divides dilution flow by Total MPC/ECL fraction multiplied by ten and obtains Authorized Discharge Rate of 506 gpm, NOT 560 gpm as listed on card.	—	—	—
	<div style="border: 1px solid black; padding: 5px;"> <p>Note: The examinee may state that they would stop at this point. Direct them to check remainder of the Card.</p> </div>				
*2.	Calculate the expected 09-01 CPM by multiplying the Total Isotopic Activity by the Calibration Constant.	Examinee verifies expected 09-01 CPM is correct by multiplying the Total Isotopic Activity by the Calibration Constant.	—	—	—
*3.	Calculate the Alarm Setpoint by multiplying the expected 09-01 CPM by calculated Dilution Factor, divided by the total Gamma MPC fraction.	Examinee verifies Alarm Setpoint is correct by multiplying the expected 09-01 CPM by calculated Dilution Factor, divided by the total Gamma MPC fraction.	—	—	—
*4.	IF the calculated High Alarm Setpoint is less than 5.0E+5, THEN calculate the Alert Setpoint by multiplying the High Alarm setpoint by 0.5. Otherwise, use 2.5E+05.	Examinee determines that Alert Setpoint of 3.3E+05 is incorrect and that correct setpoint is 2.5E+05.	—	—	—

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
5.	Notify Shift Manager of errors following review.	Examinee notifies Shift Manager that the Authorized Calculated Discharge Rate should be 506 gpm, NOT 560 gpm, AND that the Alert Setpoint should be 2.5E+05, NOT 3.3E+05.	—	—	—

CUE: Acknowledge report.
The JPM is considered complete at this time.

JPM Stop Time: _____



Nuclear Generation Group

Job Performance Measure

Prepare a NARS Form for Transmittal Including Determination of PARS

JPM Number: A.4

Revision Number: 00

Date: 03/17/02

Developed By: _____

Facility Author

Date

Approved By: _____

Facility Representative

Date

Job Performance Measure (JPM)

INITIAL CONDITIONS

1. The unit is shutdown.
2. Core damage HAS occurred.
3. An off-site release is in progress.
4. Drywell pressure is 18 psig and steady.
5. The SPING Mid-Range High is in alarm.
6. The “A” and “B” models are NOT available.
7. Containment radiation levels are 1,800 Rem/Hr.
8. DOP 1700-10 calculated release rate is 2.62×10^6 uCi/Second.
9. Field teams are being assembled and are expected to provide field data in about 30 minutes.
10. Wind speed and direction are 9 miles/hour from 203 degrees.

INITIATING CUE

1. The Shift Manager has determined that a GSEP condition exists.
2. The Shift Manager has directed you to prepare an initial notification NARS form for his/her approval, including your determination of the GSEP classification and PARS recommendations, and notify the Shift Manager when the NARS form is ready for final approval.

This is a time critical JPM

Job Performance Measure (JPM)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<div style="border: 1px solid black; padding: 5px;"> <p>Note: The examinee may classify (Step 7) the event before starting to fill out the NARS form. The examinee must have the event classified within 15 minutes from the start of the JPM.</p> </div>					
1.	Locates correct form.	Examinee obtains clean copy of EP-MW-114-100 from simulator drawer.	—	—	—
<div style="border: 1px solid black; padding: 5px;"> <p>CUE: IF asked, REMIND examinee that this is the initial notification.</p> </div>					
2.	Completes UTILITY MESSAGE NO.	Examinee enters a "1."	—	—	—
3.	Completes STATE MESSAGE NO.	Examinee enters "N/A."	—	—	—
4.	Leaves INITIAL ROLL CALL COMPLETED blank.	Examinee leaves blank.	—	—	—
5.	Circles STATUS corresponding to the appropriate status description.	Examinee circles [B]. (It is NOT considered UNSAT if the examinee circles [A], as this is simulated as a real event.)	—	—	—
*6.	Circles the appropriate STATION.	Examinee circles [D].	—	—	—
*7.	Determines the correct CLASSIFICATION LEVEL.	Examinee determines and circles [C] SITE AREA EMERGENCY (FS1 or RS1).	—	—	—

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<div style="border: 1px solid black; padding: 5px;"> <p>Note: The examinee must have the event classified within 15 minutes of start of JPM.</p> <p>Time classified: _____</p> </div>					
*8.	Completes ACCIDENT CLASSIFIED.	Examinee records the time that the examiner provided, today's date, and either FS1 or RS1 for the EAL#.	___	___	___
9.	Completes ACCIDENT TERMINATED.	Examinee enters "N/A."	___	___	___
*10.	Circles appropriate RELEASE STATUS category.	Examinee circles [B].	___	___	___
*11.	Circles letter corresponding to TYPE OF RELEASE.	Examinee circles [B].	___	___	___
*12.	Fills in the WIND DIRECTION and WIND SPEED.	Examinee fills "203°" for wind direction and "9" for wind speed as MILES/HR. Wind speed in METERS/SEC is marked "N/A."	___	___	___
*13.	Completes PROTECTIVE ACTION RECOMMENDATIONS.	Examinee circles [A]. Enters "N/A" for all other entries.	___	___	___
14.	Completes ADDITIONAL INFORMATION blank.	Examinee enters "N/A."	___	___	___
15.	Leaves MESSAGE TRANSMITTED BY blank.	Examinee leaves blank.	___	___	___
16.	Leaves TRANSMITTED AT blank.	Examinee leaves blank.	___	___	___