

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station

**JPM TITLE:** Calculate Reactivity Placard Information per SP-87-151

**JPM NUMBER:** RO-119-JP16A **REV.** B

**RELATED PRA INFORMATION:** N/A

**TASK NUMBER(S) / TASK TITLE(S):** 1190160301 / Control Informational Aids

**K/A NUMBERS:** 2.1.25 Ability to Interpret reference materials, such as graphs, curves, tables, etc.  
RO IMP 3.9 / SRO IMP 4.2

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Classroom  
 Lab:

Time for Completion: 20 Minutes Time Critical: No

Alternate Path / Faulted: No

**TASK APPLICABILITY:** RO / SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug	<b>/s</b>	01/19/2011
	Instructor		Date
<b>Validated by:</b>	Andrew Fahrenkrug	<b>/s</b>	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)		Date
<b>Approved by:</b>	Randy Hastings	<b>/s</b>	01/24/2011
	Training Supervisor		Date
<b>Approved by:</b>	Mark Goolsbey	<b>/s</b>	01/25/2011
	Facility Representative		Date

**JPM Number:** RO-119-JP16A  
**JPM Title:** Calculate Reactivity Placard Information per SP-87-151  
**Examinee:** \_\_\_\_\_ **Evaluator:** \_\_\_\_\_  
**Job Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Start Time** \_\_\_\_\_ **Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**                      **SAT:**                       **UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**EVALUATOR'S SIGNATURE:** \_\_\_\_\_

*NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.*

## JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- The plant is at 100% power
- Current burnup for the core is 15,000 MWD/MTU
- Current RCS boron is 400 ppm.
- The Boric Acid Storage Tanks are at 8.0 weight% boric acid.
- All automatic systems are operating at program values.
- SP-87-151, Weekly Instrument Channel Checks is in progress.
- PPCS is currently unavailable.

**INITIATING CUES (IF APPLICABLE):**

- The Unit Supervisor directs you to perform step 6.11 of SP-87-151, UPDATE Reactivity placards and CHECK they are reasonable for existing plant conditions.

NOTE: Provide attached blank Reactivity Placard form to the Performer when requested.

**JPM PERFORMANCE INFORMATION**

**Required Materials:** SP-87-151, Reactor Data Manual

**General References:** SP-87-151 Weekly Instrument Channel Checks, Rev. 60  
Reactor Data Manual  
CO-REPORT-TOP-VEP-FRD-42 – Section 2.2.2.1 for MTC and power Defect.  
Section 2.2.2.2 for Differential Boron Worth

**Task Standards:** Determine the values for the parameters on the Reactivity Placard to within pre-determined limits, and record information on the Reactivity Placard.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**Performance Step: 1** Determine “Power Defect”  
**Critical Yes**

**Standard:** Record “Power Defect” value between - 26.25 ppm/% and - 26.00 ppm/%.

**Evaluator Note:** The Power Defect is obtained from the Reactor Data Manual Graph RD 7.4 (10/07/2009) using the 100% power at 400 ppm boron. The coordinate lies between - 2625 ppm and - 2600 ppm. This value is divided by 100% to get the required value.  
  
The order in which values are determined is not specified. The JPM is laid out to fill-in the Reactivity Placard from top to bottom. The performer may do this in any order.

**Performance:** SATISFACTORY  UNSATISFACTORY

**Comments:**  
\_\_\_\_\_

<b>Performance Step: 2</b> <b>Critical <u>Yes</u></b>	Determine "MTC"
<b>Standard:</b>	Record "MTC" value between - 32.0 pcm/°F and - 33.0 pcm/°F.
<b>Evaluator Note:</b>	<b>The MTC is obtained from the Reactor Data Manual Graph RD 8.1 (10/07/2009) using Burnup of 15,000 MWD/MTU</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 3</b> <b>Critical <u>Yes</u></b>	Determine "Differential Boron Worth (DBW)"
<b>Standard:</b>	Record "DBW" value between - 7.35 pcm/ppm and - 7.40 pcm/ppm.
<b>Evaluator Note:</b>	<b>The DBW is obtained from the Reactor Data Manual Graph RD 6.4 (10/07/2009) using Burnup of 15,000 MWD/MTU</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 4</b> <b>Critical <u>Yes</u></b>	Determine DILUTE Values: 1 PPM
<b>Standard:</b>	Record "DILUTE 1PPM" value between 84.0 gallons water/ppm and 86.0 gallons water/ppm.
<b>Evaluator Note:</b>	<b>Using Table 2.2.11 (03/03/2009), at the current RCS boron concentration of 400 ppm the chart shows that it requires 855 gallons of water to dilute the RCS 10 ppm. Thus the water required is 85.5 gallons/ppm. The minimum value comes from calculation for diluting 1 ppm.</b> <b>The crews typically use the 10 ppm RCS boron change values for accuracy. There is no requirement to use those values.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 5</b> <b>Critical <u>Yes</u></b>	Determine DILUTE Values: % pwr
<b>Standard:</b>	Divide the DILUTE PPM value by DBW value and multiply by Power Defect Value.  Record "DILUTE % pwr" value between 295 gallons water/% pwr and 307.1 gallons water/% pwr
<b>Evaluator Note:</b>	<b>Dividing the 1PPM values by the DBW values yields a range of -11.351 gallons/pcm to -11.701 gallons/pcm. (84 / -7.40 and 86 / -7.35)</b> <b>Multiplying these values by the Power Defect values yields a range of 295.1 gallons/% to 307.1 gallons/%. (-11.351 x -26.00 and -11.701 x -26.25)</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 6</b> <b>Critical <u>Yes</u></b>	Determine DILUTE Values: °F
<b>Standard:</b>	Divide the DILUTE PPM value by DBW value and multiply by MTC Value.  Record "DILUTE °F" value between 363 gallons water/°F and 386.1 gallons water/°F
<b>Evaluator Note:</b>	<b>Dividing the 1PPM values by the DBW values yields a range of -11.351 gallons/pcm to -11.701 gallons/pcm. (84 / -7.40 and 86 / -7.35)</b>  <b>Multiplying these values by the MTC values yields a range of 363.2 gallons/°F to 386.1 gallons/°F. (-11.351 x -32 and -11.701 x -33)</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 7</b> <b>Critical <u>Yes</u></b>	Determine BORATE Values: 1 PPM
<b>Standard:</b>	Record "BORATE 1PPM" value between 2.52 gallons boron/ppm and 2.55 gallons boron/ppm.
<b>Evaluator Note:</b>	<b>Using Table 2.2.11 (03/03/2009), at the current RCS boron concentration of 400 ppm the chart shows that it requires 25.3 gallons of acid to borate the RCS 10 ppm. Thus the water required is 2.53 gallons/ppm. The minimum value comes from calculation for borating 5 ppm and the maximum for borating 2 ppm.</b>  <b>The crews typically use the 10 ppm RCS boron change values for accuracy. There is no requirement to use those values.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 8</b> <b>Critical <u>Yes</u></b>	Determine BORATE Values: % pwr
<b>Standard:</b>	Divide the BORATE PPM value by DBW value and multiply by Power Defect Value.  Record "BORATE % pwr" value between 8.85 gallons boron/% pwr and 9.11 gallons boron/% pwr
<b>Evaluator Note:</b>	<b>Dividing the 1PPM values by the DBW values yields a range of - 0.341 gallons/pcm to - 0.347 gallons/pcm. (2.52/ -7.40 and 2.55/ -7.35)</b> <b>Multiplying these values by the Power Defect values yields a range of 8.854 gallons/% to 9.107 gallons/%. (-0.341 x -26.00 and -0.347 x -26.25)</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 9</b> <b>Critical <u>Yes</u></b>	Determine BORATE Values: °F
<b>Standard:</b>	Divide the BORATE PPM value by DBW value and multiply by MTC Value.  Record "BORATE °F" value between 10.9 gallons boron/°F and 11.45 gallons boron/°F
<b>Evaluator Note:</b>	<b>Dividing the 1PPM values by the DBW values yields a range of - 0.341 gallons/pcm to - 0.347 gallons/pcm. (2.52/ -7.40 and 2.55/ -7.35)</b> <b>Multiplying these values by the MTC values yields a range of 10.9 gallons/°F to 11.45 gallons/°F. (-0.341 x -32 and -0.347 x -33)</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step:</b> 10	Update DATE
<b>Critical <u>No</u></b>	
<b>Standard:</b>	Place the current day's date in DATE blank on Reactivity Placard.
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**Terminating Cues:** When Reactivity Placard is returned or when the information has been recorded on Reactivity Placard, "This JPM is complete."

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

RO-119-JP16A, Calculate Reactivity Placard Information per SP-87-151, Rev. B

**During the evaluation, the trainee:**

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.

**JPM KEY**

REACTIVITY PLACARD INFORMATION

GENERAL INFORMATION	
Power Defect	<u>-26.00 – -26.25</u> pcm/%pwr
MTC	<u>-32.0 – -33.0</u> pcm/°F
DBW	<u>-7.35 – -7.40</u> pcm/ppm
DILUTE	
1 PPM	<u>84.0 – 86.0</u> gallons water/ppm
% pwr	<u>295 – 307.1</u> gallons water/%pwr
°F	<u>363 – 386.1</u> gallons water/°F
BORATE	
1 PPM	<u>2.52 – 2.55</u> gallons boron/ppm
% pwr	<u>8.85 – 9.11</u> gallons boron/%pwr
°F	<u>10.9 – 11.45</u> gallons boron/°F
DATE	<u>"Today's Date"</u>

RO-119-JP16A, Rev. B  
**TURNOVER SHEET**

**INITIAL CONDITIONS:**

- The plant is at 100% power
- Current burnup for the core is 15,000 MWD/MTU
- Current RCS boron is 400 ppm.
- The Boric Acid Storage Tanks are at 8.0 weight% boric acid.
- All automatic systems are operating at program values.
- SP-87-151, Weekly Instrument Channel Checks is in progress
- PPCS is currently unavailable.

**INITIATING CUES (IF APPLICABLE):**

- The Unit Supervisor directs you to perform step 6.11 of SP-87-151, UPDATE Reactivity placards and CHECK they are reasonable for existing plant conditions.

REACTIVITY PLACARD INFORMATION

<b>GENERAL INFORMATION</b>	
Power Defect _____	pcm/%pwr
MTC _____	pcm/°F
DBW _____	pcm/ppm
<hr/>	
<b>DILUTE</b>	
1 PPM _____	gallons water/ppm
% pwr _____	gallons water/%pwr
°F _____	gallons water/°F
<hr/>	
<b>BORATE</b>	
1 PPM _____	gallons boron/ppm
% pwr _____	gallons boron/%pwr
°F _____	gallons boron/°F
<hr/>	
DATE _____	

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Stenner 01/19/2011  
Validation Personnel /Date

\_\_\_\_\_  
Validation Personnel/Date

\_\_\_\_\_  
Validation Personnel /Date

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Validation Personnel /Date

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Validation Personnel/Date

RO-119-JP16A, Calculate Reactivity Placard Information per SP-87-151, Rev. B

Historical Record:

Rev. A – new

Rev B

- Added Reference for the definition of terms for Power Defect, MTC and DBW

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station  
**JPM TITLE:** Review and Approval of Radiological Liquid Waste Discharge Permit  
**JPM NUMBER:** SO-119-JP03B **REV.** C  
**RELATED PRA INFORMATION:** None  
**TASK NUMBER(S) / TASK TITLE(S):** 1190030102/ Direct Discharge of radiological liquid waste  
**K/A NUMBERS:** 2.3.6 Ability to approve release permits IMP 3.8

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Classroom  
 Lab:

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path / Faulted: NO

**TASK APPLICABILITY:** SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date



JPM BRIEFING/TURNOVER

***Read to Examinee:***

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

- 1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.*
- 2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.*

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- You are the Shift Manager.
- Current Plant Conditions are as follows:
  - Power was reduced to maintain vacuum following stopping CW pump 1B due to high vibrations at 0035
    - Generation at 540 MWe Gross
    - 90% NI Power
    - Thermal Power 1593 MWt
  - Actions to discharge CVC Monitor Tank 1A are in progress per NOP-CVC-007, “CVC Monitor Tanks and Pumps.”
    - CVC Monitor Tank 1A has been sampled Yesterday at 2200 per NOP-CVC-007, “CVC Monitor Tanks and Pumps”

**THE STEPS IN THIS JPM SHOULD BE: PERFORMED  
THIS TASK IS NOT TIME CRITICAL**

**INITIATING CUES (IF APPLICABLE):**

**APPROVE** the Liquid Waste Discharge Permit for CVC Monitor Tank 1A.

**Evaluator Note:**

After covering the initial conditions and initiating CUE then give the student **Attachment A** and the marked up copy of NOP-CVC-007 for sampling of CVC Monitor Tank 1A **Attachment D**.

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

Do you have any questions before we begin? - Answer applicable questions

### JPM PERFORMANCE INFORMATION

**Required Materials:** Training Discharge Permit Attachment A (Faulted before the discharge)  
Training Discharge Permit Attachment B (Not Faulted before the discharge)  
Training Discharge Permit Attachment C (Faulted After Discharge is Complete)  
NOP-CVC-007 - Marked Up Copy for Sampling CVC Monitor Tank 1A  
NOP-CVC-007 – Marked Up copy after discharge complete  
SP-32A-136 Rev 33, “Radiological Discharges (Batch Mode)”  
Calculator

**General References:** NOP-CVC-007, CVC Monitor Tanks and Pumps, Rev. 3.  
SP-32A-136, Radiological Discharges (Batch Mode), Rev. 38

**Task Standards:**

1. Identify incorrect number CW pumps running and associated Minimum Dilution Flow on Radiological Liquid Waste Discharge Permit (Attachment A)
2. Approve Radiological Liquid Waste Discharge Permit (Attachment B)
3. Identify Initial Tank Level greater than 2% different from tank level at the time of sampling.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

<b>Performance Step: 1</b> <b>Critical: <u>Yes</u></b>	Approval and Disposition of Radiological Liquid Waste Discharge Permit
<b>Standard:</b>	Identify incorrect number CW pumps running and associated Minimum Dilution Flow on Radiological Liquid Waste Discharge Permit
<b>Evaluator Note:</b>	<p><b>Attachment A</b> has the fault of an incorrect number of CW pumps running and associated Minimum Dilution Flow</p> <p><b>Attachment B</b> has no faults</p> <p><b>IF</b> the performer fixes the Radiological Liquid Waste Discharge Permit (<b>Attachment A</b>) by lining out and initial the error and entering the correct values (1 CW and 200,000 gpm) and then signs <b>Attachment A</b>, the performer has <b>NOT</b> successfully completed this step, the Tritium Concentration Number will be incorrect</p>
<b>Evaluator Cue:</b>	<p><b>IF</b> the performer signs the original Radiological Liquid Waste Discharge Permit (<b>Attachment A</b>) without fixing the fault <b>THEN</b> state “<b>This Concludes the JPM</b>” and terminate JPM.</p> <p><b>IF</b> the performer signs the original Radiological Liquid Waste Discharge Permit (<b>Attachment A</b>) after fixing the fault by lining out the incorrect values and inserting values, (correct values would be: 1 CW and 200,000 gpm), <b>THEN</b> state “<b>This Concludes the JPM</b>” and Terminate JPM.</p> <p><b>IF</b> the performer identifies the fault in the Radiological Liquid Waste Discharge Permit (<b>Attachment A</b>) <b>THEN</b> “<b>Acknowledge the fault</b>” and give the performer <b>Attachment B</b> and state “<b>The Chemistry Tech has created a new discharge permit.</b>”</p> <p><b>IF</b> the performer identifies the fault and contacts chemistry/AO for a new discharge permit <b>THEN</b> “<b>Acknowledge the fault</b>” and provide <b>Attachment B</b> to the performer stating “<b>A new Radiological Liquid Waste Discharge Permit has been created.</b>”</p> <p><b>IF</b> asked if CW A pump is running <b>THEN</b> respond “<b>CW A pump is running.</b>”</p> <p><b>IF</b> asked if R-18 is operating <b>THEN</b> respond “<b>R-18 is operating.</b>”</p> <p><b>IF</b> the performer states they will log approval then respond “<b>Acknowledge logging.</b>”</p>
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

<b>Performance Step: 2</b>	Approve Radiological Liquid Waste Discharge Permit
<b>Critical: <u>Yes</u></b>	
<b>Standard:</b>	Approve Radiological Liquid Waste Discharge Permit OR Disprove the discharge permit because > 2% difference from initial tank level.
<b>Evaluator Cue:</b>	<p><b><u>IF</u></b> the performer does not approve the Radiological Liquid Waste Discharge Permit <b><u>THEN</u></b> state “<b>This concludes the JPM</b>” and Terminate the JPM.</p> <p><b><u>IF</u></b> the performer approves the Radiological Liquid Waste Discharge Permit <b><u>THEN</u></b> perform the following:</p> <ol style="list-style-type: none"> <li>1. Take the Radiological Liquid Waste Permit (<b>Attachment B</b>) from the performer.</li> <li>2. State the following “<b>The discharge of CVC Monitor Tank 1A was performed per NOP-CVC-007 and the AO has routed the completed Radiological Liquid Waste Discharge Permit for your Approval and Disposition.</b>”</li> <li>3. Provide the student with the completed Radiological Liquid Waste Permit (<b>Attachment C</b>) <b><u>AND</u></b> marked up copy of NOP-CVC-007 for completing the discharge of CVC Monitor Tank 1A. (<b>Attachment E</b>).</li> </ol> <p><b><u>IF</u></b> the performer asks for current level in the CVC Monitor Tank ‘A’ <b><u>THEN</u></b> state the following, “The NAO reports that CVC Monitor Tank ‘A’ level is 91%.”</p> <p><b><u>IF</u></b> the performer asks for the current level in the CVC Monitor Tank ‘A’ in gallons <b><u>THEN</u></b> state the following, “The NAO reports the level in the CVC Monitor Tank ‘A’ as 6825 gallons.”</p>
<b>Evaluator Note:</b>	<b>IF the performer does not approve the discharge permit because the initial tank level is &gt; 2% different from the level listed on the discharge permit, THEN Step 3 is completed SAT and the JPM can be ended</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b> <b>Critical: <u>Yes</u></b>	Review for Disposition completed Radiological Liquid Waste Discharge Permit
<b>Standard:</b>	Identify Initial Tank Level greater than 2% different from tank level at the time of sampling.
<b>Evaluator Cue:</b>	<b><u>IF</u></b> the performer identifies that the initial tank level is greater than 2% different from the tank level at the time of sampling <b><u>THEN</u></b> : <ul style="list-style-type: none"><li>• <b><u>IF</u></b> contacted as AO <b><u>THEN</u></b> respond “<b>The initial tank level is correct I made an error and did not recognize the greater than 2% difference from tank level at the time of sampling.</b>”</li><li>• <b><u>IF</u></b> contacted as Chemistry <b><u>THEN</u></b> respond “<b>Will Take actions IAW with SP-32A-136, Radiological Discharges (Batch Mode).</b>”</li><li>• <b><u>IF</u></b> the performer states that they will initiate a CR <b><u>THEN</u></b> respond “<b>Acknowledge Initiation of CR.</b>”</li></ul>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** When the performer has completed review for the second discharge permit “This JPM is complete.”

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

SO-119-JP03B, Review and Approve Liquid Radiological Waste Discharge Permit, Rev. C

**During the evaluation, the trainee:**

**Evaluation**

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  PASS  FAIL
- Never put anyone's safety at risk.  PASS  FAIL
- Never put equipment reliability at risk.  PASS  FAIL
- Never violated radiological work practices.  PASS  FAIL
- Demonstrated effective use of event-free human performance tools.  PASS  FAIL



SO-119-JP03B  
ATTACHMENT A.pdf



SO-119-JP03B  
ATTACHMENT B.pdf



SO-119-JP03B  
ATTACHMENT C.pdf



JPM SO-119-JP03B  
ATTACHMENT D.pdf



JPM SO-119-JP03B  
ATTACHMENT E.pdf

SIMULATOR SET UP:

- None

## TURNOVER SHEET

### INITIAL CONDITIONS:

- You are the Shift Manager.
- Current Plant Conditions are as follows:
  - Power was reduced to maintain vacuum following stopping CW pump 1B due to high vibrations at 0035
    - Generation at 540 MWe Gross
    - 90% NI Power
    - Thermal Power 1593 MWt
  - Actions to discharge CVC Monitor Tank 1A are in progress per NOP-CVC-007, "CVC Monitor Tanks and Pumps."
    - CVC Monitor Tank 1A has been sampled Yesterday at 2200 per NOP-CVC-007, "CVC Monitor Tanks and Pumps"

**THE STEPS IN THIS JPM SHOULD BE: PERFORMED**

**THIS TASK IS NOT TIME CRITICAL**

**INITIATING CUES:** APPROVE the Liquid Waste Discharge Permit for CVC Monitor Tank 1A.

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES or N/A" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols / 01/19/2011  
Validation Personnel /Date

\_\_\_\_\_  
Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel /Date

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Validation Personnel/Date

Historical Record:

Rev. A

- New.

Rev. B

- Updated to current procedure revisions and JPM Template version.
- Updated step 2 to include possibility of identifying > 2% differences in tank level during performance of this step.

Rev C

- Changed the order of the cues for step 2 to aid in administration

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** KPS

**JPM TITLE:** Determine Allowable Overtime

**JPM NUMBER:** RO-119-JP17A **REV.** B

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** 1190170301 / Control hours worked as established by the Overtime Policy

**K/A NUMBERS:** 2.1.5 RO / SRO Imp 2.9 / 3.9

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:

Simulator:  Other:   
Classroom

Lab:

Time for Completion: 16 Minutes Time Critical: No

Alternate Path / Faulted: No

**TASK APPLICABILITY:** RO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew P. Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andrew P. Fahrenkrug /s	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date



## JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- You are a licensed RO.
- The plant has been operating at 100% power for the past 30 days.
- You have been called to cover tomorrows shift as a NCO due to an illness.
- Your work history including the proposed shift is attached.

**THE STEPS IN THIS JPM SHOULD BE: PERFORMED****THIS TASK IS NOT TIME CRITICAL****INITIATING CUES (IF APPLICABLE):**

Determine your ability to complete the scheduled work hours without additional authorization(s) or limits exceeded.

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK

Do you have any questions before we begin? - Answer applicable questions

**Let's Begin**

Retention: Life of plant insurance policy + 10 years

KPS-JPMROA2-L-RO-A-01212011-102

Retain in: Training Program File

**JPM PERFORMANCE INFORMATION**

**Required Materials:** Attached work schedule  
LI-AA-700

**General References:** LI-AA-700, Fatigue Management and Work Hour Limits for Covered Workers, Rev. 2

**Task Standards:** Worker hours reviewed per LI-AA-700 step 5.2.8, and the following limitations identified:  
1. Will exceed 16 hours in a 24 hour period  
2. Does not have a break period of at least 8 hours between work shifts.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

<b>Performance Step: 1</b>	LI-AA-700, Step 3.1.1
<b>Critical: <u>No</u></b>	<b>REFER</b> to Attachment 1, Examples of Covered and Non-Covered Work
<b>Standard:</b>	Determine work is COVERED WORK.
<b>Evaluator Note:</b>	The performer should identify that the work he has completed and is scheduled to perform is covered work. The Performer is not required to state this but is inferred by determining limitations in the Critical Step. Step 3.1.2 is not required to be performed to determine covered status.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Performance Step: 2**

**Critical: No**

LI-AA-700, Step 3.2.1

APPLY work hour limits and the associated calculation and tracking of work hours to the individuals who direct or perform covered work

**Standard:**

Determine the following limitations apply for the given schedule without waivers or exceptions:

- No more than 16 consecutive hours
- No more than 16 hours worked in any rolling 24-hour period.
- No more than 26 hours worked in any rolling 48-hour period.
- No more than 72 hours worked in any rolling 168-hour (7-day) period.
- At least a 10-hour break between successive work periods or an 8-hour break when a break of less than 10 hours is necessary to accommodate a crew's or individual's scheduled transition between work schedules or shift.
- A 34-hour uninterrupted, continuous break in any 216-hour (9-day) period.

**Evaluator Note:**

This information is stated in step 3.3.1 and addressed in step 5.2.8 for each individual.

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

---

**Performance Step: 3**

**Critical: No**

LI-AA-700, Step 3.2.2 and 3.2.3

- **INCLUDE** the following in work hour calculations:
  - Covered work performed on-site
  - Call-in work periods
- **EXCLUDE** the following from work hour calculations:
  - Primary and Secondary shift turnover (See Attachment 15 for further guidance)

**Standard:**

Determine work 12 hours apply to work hour calculation for each work days 1 & 2 (1800 -0600); .12 hours apply for work days 5, 6, 7 and 8 (0600 – 1800); and 12 hours apply for the proposed work day tomorrow (0100 – 1300).

Determine the times listed as TO (P) for each work day are excluded from work hour calculations.

**Evaluator Note:**

Steps 3.2.2 and 3.2.3 cover a laundry list of items that are considered for inclusion or exclusion from work hour calculations. This step only identifies those that are applicable to the current situation.

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

---

**Performance Step: 4**

**Critical: No**

LI-AA-700, Step 3.3.3

During online operations and without issuance of a waiver, **ENSURE** an individual's required average minimum days off adheres to the requirements listed in Table 2 (averaged over the shift cycle).

**Table 2: Required Minimum Days Off (Non-Outage)**

Covered Individual**	8-Hour Shift*	10-Hour Shift*	12-Hour Shift*
Maintenance	1 day/week	2 days/week	2 days/week
Operations, HP, Chemistry, Fire Brigade	1 day/week	2 days/week	2.5 days/week
Security	1 day/week	2 days/week	3 days/week

\*Average over a shift cycle of no more than 6 weeks

\*\*See 5.3.10 for definition of covered work.

**Standard:**

Determine required minimum days off is 2.5 days per week

**Evaluator Note:**

Steps 3.1.4 through 3.3.7 do not apply.

The next applicable section 3.7, with consideration for call-in work.

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

---

**Performance Step: 5**

**Critical: Yes**

LI-AA-700, Step 3.7.5

To determine if an individual can be called in to work or work in excess of scheduled hours, **USE** the following guidelines to determine if a work hour limit will be exceeded:

- a. **EVALUATE** hours worked to determine if any limit will be exceeded based on the work schedule by a backward look at the number of hours that have or will have been worked based on a time in the future (i.e., if the individual works at time T, how many hours will be worked in the 24 hours/48 hours/168 hours preceding time T relative to 10 CFR 26 work hour limits as well as minimum days off and between shift break requirements).

**Standard:**

Determine the following limits will be exceeded if the schedule is followed:

- No more than 16 hours worked in any rolling 24-hour period.

AND

- At least a 10-hour break between successive work periods or an 8-hour break when a break of less than 10 hours is necessary to accommodate a crew's or individual's scheduled transition between work schedules or shift.

**Evaluator Note:**

The performer should identify that the following 2 limits will be exceeded with the proposed work schedule.

Day 8 (Today) work 12 hours (0600-1800) and Proposed (Tomorrow) work 12 hours but 5 of those hours are within the same 24 hour period extending from Day 8 for a total of 17 hours. (No more that 16 work hours in any rolling 24-hour period)

Day 8 (Today) and Proposed (Tomorrow) only have 7 hours of break time between work shifts (At least a 10-hour break between successive work periods or an 8-hour break when a break of less than 10 hours is necessary to accommodate a crew's or individual's scheduled transition between work schedules or shift).

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

---

**Terminating Cues:** When the performer has evaluated the individuals for satisfying the overtime requirements, "This JPM is complete."

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

Retention: Life of plant insurance policy + 10 years

KPS-JPMROA2-L-RO-A-01212011-102

Retain in: Training Program File

**During the evaluation, the trainee:**

**Evaluation**

- |   |                               |                               |
|---|-------------------------------|-------------------------------|
| • Performed the task correctly and in accordance with procedure usage and adherence requirements. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never put anyone's safety at risk.  | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never put equipment reliability at risk.  | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never violated radiological work practices.   | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Demonstrated effective use of event-free human performance tools.                               | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |

## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- You are a licensed RO.
- The plant has been operating at 100% power for the past 30 days.
- You have been called to cover tomorrows shift as a NCO due to an illness.
- Your work history including the proposed shift is attached.

### **THE STEPS IN THIS JPM SHOULD BE: PERFORMED**

### **THIS TASK IS NOT TIME CRITICAL**

### **INITIATING CUES (IF APPLICABLE):**

Determine your ability to complete the scheduled work hours without additional authorization(s) or limits exceeded.

RO-119-JP17A, Rev. B

DAY 1	DAY 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8 (Today)	Proposed (Tomorrow)
1800 - 0600 1735 - 1800 TO (P)	1800 - 0600 1740 - 1800 TO (P)	OFF	OFF	0600 - 1800 0545 - 0600 TO (P)	0600 - 1800 0545 - 0600 TO (P)	0600 - 1800 0535 - 0600 TO (P)	0600 - 1800 0545 - 0600 TO (P)	0100 – 1300 (early call-in)

“TO” indicates the time that was spent for shift turnover activities (primary).

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Chris Brandt 011/19/2011  
Validation Personnel /Date

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Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel /Date

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Validation Personnel/Date

Retention: Life of plant insurance policy + 10 years  
Retain in: Training Program File

KPS-JPMROA2-L-RO-A-01212011-102

RO-119-JP17A, Determine Allowable Overtime, Rev. B

Historical Record:

Rev. A

- New.

Rev. B – SJ. Incorporate NRC comments on JPM

- Updated to Rev. 2 of LI-AA-700.
- In Initial Cues and Turnover Information, Initial Cues: added bullet, “You are a licensed RO.” and changed another bullet to read, “You have been called to cover tomorrow’s shift as a NCO due to an illness.”
- Removed JPM title from page containing work history that is to be provided to Performer.
- Changed Performance Steps to reflect to the specific action step from the procedure LI-AA-700. Added new steps 1 through 4 to tie procedural action steps to Performance Steps. Critical Step was also tied to procedural action step (LI-AA-700, step 3.7.5).

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station

**JPM TITLE:** Review SP-87-151: Faulted DG A Fuel Oil Level

**JPM NUMBER:** SO-119-JP011 **REV.** B

**RELATED PRA INFORMATION:** Kewaunee System Importance to at Power CDF/LERF EDG 1<sup>st</sup>/4<sup>th</sup>

**TASK NUMBER(S) / TASK TITLE(S):** 1190010202 Review A Completed Surveillance Procedure

**K/A NUMBERS:** 2.1.25 Ability to Interpret reference materials, such as graphs, curves, tables, etc. (CFR 41.10/43.5/45.12 SRO 4.2)

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path / Faulted: YES

**TASK APPLICABILITY:** SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date

**JPM Number:** SO-119-JP011

**JPM Title:** Review SP-87-151, Faulted DG A Fuel Oil Level

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

**COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).**


**EVALUATOR'S SIGNATURE:** \_\_\_\_\_

*NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.*

## JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- The unit is at 100% Rated Thermal Power
  - Current burnup for the core is 15,000 MWD/MTU
  - Current RCS boron is 400 ppm.
  - The Boric Acid Storage Tanks are at 8.0 weight% boric acid.
  - All automatic systems are operating at program values.
  - PPCS is currently unavailable.
- SP-87-151, Weekly Instrument Channel Checks, has just been completed.
- Annunciator 47093-C, Diesel Gen A Fuel Oil Level Abnormal is LIT – Crew is performing actions per the ARP. - Maintenance has reported that automatic make up to the day tank is NOT working, however manual makeup to the day tank is available. I&C has determined that the setpoint for maintaining day tank level were set too low

**INITIATING CUES (IF APPLICABLE):**

- As the supervisor review the complete SP-87-151

**CUE:**

After the examinee has been given the initial conditions and the initiating cue then give the candidate the marked up copy of SP-87-151

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

Do you have any questions before we begin? - Answer applicable questions

**Let's Begin**

**JPM PERFORMANCE INFORMATION**

Retention: Life of plant insurance policy + 10 years

KPS-JPMSROA2-L-SRO-A-01212011-097

Retain in: Training Program File

**Required Materials:**      **Completed SP-87-151 with the following:**

- **Faulted reading for EDG A Fuel Tank Level. Attachment A: A.1.2.c has 106.4 in H2O and A.1.2.d has level corresponding to Attachment B level not Attachment A level (Level below TS SR 3.8.3.1)**

**Technical Specifications and Bases**  
**Technical Requirements Manual**  
**COLR**  
**Completed Reactivity Plaque card**  
**Marked Up Copy of ARP-47093-C, Diesel Gen Fuel Oil Level Abnormal**

**General References:**      **SP-87-151, Weekly Instrument Channel Checks**  
**Technical Specifications and Bases**  
**Technical Requirements Manual**  
**C1033 Safeguard's Diesel Fuel Oil Storage Volume Calculation**  
**OP-KW-ORT-DGM-001A, Emergency Diesel Generator 1A Operation Log, Rev 9**

**Task Standards:**              **Examinee required to identify the following items:**

1.    **Need to Order Fuel Oil**
2.    **LCO 3.8.1 NOT MET**
3.    **Required Actions and Completion Times for LCO 3.8.1 Condition B**

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**NOTE:** The steps of this JPM may be performed in any order.

**NOTE:** If this step is performed in the simulator without any other JPMS in progress then update the reactivity plaque card with information contained in the attachment and Activate annunciator 47093-C.

**Evaluator Cue:** If during the performance of the JPM the examinee request the status of performing ARP-47093-C then provide the marked up copy of the ARP to the examinee

<b>Performance Step:1</b>	<b>Review SP-87-151 Weekly Instrument Channel Checks Data Sheet</b>
<b>Critical <u>NO</u></b>	
<b>Standard:</b>	Identify that value recorded for the Dsl Gen Fuel Oil Day Tks 1A1/1A2 on Weekly Instrument Channel Checks Data Sheet page 1 of 4 is below the acceptance value
<b>Evaluator Note:</b>	Level on data sheet is 5.4 ft. Acceptance Criteria is 6.4 – 7.8 feet
	UNSAT value is marked and noted on the SP. The examinee will be using this information later in evaluation of TS
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step:2</b>	<b>Review SP-87-151 Weekly Instrument Channel Checks, Attachment A Data Sheet</b>
<b>Critical <u>NO</u></b>	
<b>Standard:</b>	Identify that the acceptance criteria for the Diesel Generator A Fuel Oil Day Tank Volume is marked correctly as UNSAT.
<b>Evaluator Note:</b>	Level on data sheet is 5.4 ft. Acceptance Criteria is > 5.5 ft and Annunciator 47093-C, Diesel Gen A Fuel Oil Level Abnormal Clear.
	OSP-DGM-001A acceptance criteria for SR-3.8.1.4 Verify day tanks for each DG contain ≥ 1000 gal of fuel oil. – Acceptance criteria: level > 5.5 ft and Annunciator 47093-C, Diesel Gen A Fuel Oil Level Abnormal Clear. Level of > 5.5ft ensures greater than 1000gallons.
	Item will be marked as UNSAT in the SP. Identify the associated TS later in the JPM is the critical step
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step:3</b> <b>Critical <u>YES</u></b>	<b>Review SP-87-151, Weekly Instrument Channel Checks, Attachment A</b>
<b>Standard:</b>	<b>Identify that value recorded for the Diesel Gen Fuel Oil Storage Tank 1A on Weekly Instrument Channel Checks Data Sheet page 1 of 4 is incorrect by reviewing Attachment A of SP-87-151.</b>
<b>Evaluator Note:</b>	<b>The fuel oil tank level is from the Attachment B volume for the Heise gauge reading</b>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step:4</b> <b>Critical <u>YES</u></b>	<b>Review Attachment A of SP-87-151</b>
<b>Standard:</b>	<b>Using Table 1 in Attachment A identify that value for the Diesel Gen Fuel Oil Storage Tank 1A is 33,445 gallons</b>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step:5</b> <b>Critical <u>YES</u></b>	<b>Review Attachment A of SP-87-151</b>
<b>Standard:</b>	<b>Identify that the total volume for the FOST is &lt; 33,450 gallons and that have to ENSURE that fuel is ordered so 33,450 gallons are available to run monthly diesel test</b>
<b>Evaluator Cue:</b>	<b>If the examinee states that fuel oil is required to be order then acknowledge the ordering fuel oil</b>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step:6</b>	<b>Review Attachment A of SP-87-151</b>
<b>Critical <u>NO</u></b>	
<b>Standard:</b>	<b>Identify that value for the Diesel Gen Fuel Oil Storage Tank 1A is still above the acceptance level listed in Attachment A and Weekly Instrument Channel Check Data sheet level of 33,080 gallons. Level from Attachment A Table A 33,445 gallons</b>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**Performance Step:7**      **Review Technical Specification for Diesel Generator Day Tank < 5.5 ft**  
**Critical** YES

**Standard:**      Identify SR 3.8.1.4 NOT MET  
 Identify SR 3.8.1.6 NOT Met  
 Identify LCO 3.8.1 NOT MET  
 (c) Identify need to enter LCO3.8.1 Condition B for One EDG Inoperable with the following required actions and completion times:

Item with (C) is the critical part of the standard

Required Action		Completion Time
B.1	Perform 3.8.1.1 for the offsite circuit(s)	1 hour <u>AND</u> Once per 8 hours thereafter
<u>AND</u>		
B.2	Declare required feature(s) supported by the inoperable DG inoperable when its redundant feature(s) is inoperable	4 hours from discovery of Condition B concurrent with inoperability of redundant required feature(s)
<u>AND</u>		
B.3.1	Determine OPERABLE DG is not inoperable due to common failure	24 hours
<u>OR</u>		
B.3.2	Perform SR 3.8.1.2 for OPERABLE DG	24 hours
<u>AND</u>		
B.4	Restore DG to OPERABLE status	7 days

**Evaluator Note:**      **SR-3.8.1.4 Verify day tanks for each DG contain ≥ 1000 gal of fuel oil**

**SR-3.8.1.6 Verify each fuel oil transfer system operates to automatically transfer fuel oil from the storage tank to the associated day tanks.**

**LCO 3.8.1 The following AC electrical sources shall be OPERABLE:**

- a. Two qualified circuits between the offsite transmission network and the onsite Class 1E AC Electrical Power Distribution System; and
- b. Two diesel generators (DGs) capable of supplying the onsite Class 1E power distribution subsystem(s)

**Performance:**      **SATISFACTORY**  **UNSATISFACTORY**

**Comments:** \_\_\_\_\_

<b>Performance Step:8</b> <b>Critical <u>NO</u></b>	<b>Complete review of SP-87-151 Weekly Instrument Channel Checks Data Sheet</b>
<b>Standard:</b>	<b>Identify NO other conditions that fail to meet its acceptance criteria</b>
<b>Evaluator Cue:</b>	<b>If the examinee asks for the completed reactivity plaque card then provide them with the card attached to this JPM</b>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**Terminating Cues:** The examinee has identified the actions associated with not meeting LCO 3.8.1, and ensured that fuel oil needs to be ordered.

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

**During the evaluation, the trainee:**

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The unit is at 100% Rated Thermal Power
  - Current burnup for the core is 15,000 MWD/MTU
  - Current RCS boron is 400 ppm.
  - The Boric Acid Storage Tanks are at 8.0 weight% boric acid.
  - All automatic systems are operating at program values.
  - PPCS is currently unavailable.
- SP-87-151, Weekly Instrument Channel Checks, has just been completed.
- Annunciator 47093-C, Diesel Gen A Fuel Oil Level Abnormal is LIT – Crew is performing actions per the ARP. - Maintenance has reported that automatic make up to the day tank is NOT working, however manual makeup to the day tank is available. I&C has determined that the setpoint for maintaining day tank level were set too low

### INITIATING CUES (IF APPLICABLE):

- As the supervisor review the complete SP-87-151

SO-119-JP011, Rev. B  
REACTIVITY PLACARD INFORMATION

GENERAL INFORMATION

Power Defect -26.00 pcm/%pwr

MTC -33.0 pcm/°F

DBW -7.35 pcm/ppm

DILUTE

1 PPM 84.0 gallons water/ppm

% pwr 295 gallons water/%pwr

°F 363 gallons water/°F

BORATE

1 PPM 2.52 gallons boron/ppm

% pwr 8.85 gallons boron/%pwr

°F 10.9 gallons boron/°F

DATE "Today's Date"

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols 01/19/2011  
Validation Personnel /Date

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Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel /Date

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Validation Personnel/Date

SO-119-JP011 Rev B, Review SP-87-151, Faulted DG A Fuel Oil Level

Historical Record:

Rev A

Original

Rev B

Fixed Typo on directions for filling out initial documentation.

Retention: Life of plant insurance policy + 10 years

KPS-JPMSROA2-L-SRO-A-01212011-097

Retain in: Training Program File

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station

**JPM TITLE:** Equipment Tagging (Faulted)

**JPM NUMBER:** RO-119-JP121 **REV.** D

**RELATED PRA INFORMATION:** N/A

**TASK NUMBER(S) / TASK TITLE(S):** 1190150301 / Perform requirements of Tag Out Control  
1190120302 / Process a Tagout (SRO)

**K/A NUMBERS:** 2.2.13 - Knowledge of tagging and clearance procedures. IMP 4.1 / 4.3

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 30 Minutes Time Critical: No

Alternate Path / Faulted: Yes

**TASK APPLICABILITY:** RO / SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s Instructor	01/19/2011 Date
<b>Validated by:</b>	Andrew Fahrenkrug /s Validation Instructor (See JPM Validation Checklist, Attachment 1)	01/19/2011 Date
<b>Approved by:</b>	Randy Hastings /s Training Supervisor	01/24/2011 Date
<b>Approved by:</b>	Mark Goolsbey /s Facility Representative	01/25/2011 Date

JPM Number: RO-119-JP121  
JPM Title: Equipment Tagging (Faulted)  
Examinee: \_\_\_\_\_ Evaluator: \_\_\_\_\_  
Job Title: \_\_\_\_\_ Date: \_\_\_\_\_  
Start Time \_\_\_\_\_ Finish Time \_\_\_\_\_

PERFORMANCE RESULTS: SAT:  UNSAT:

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

EVALUATOR'S SIGNATURE: \_\_\_\_\_

*NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.*

## JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- Maintenance is preparing to repair or replace the Control Room Hot Water Heating Pump.
- You have been provided with a copy of Work Order KW100368717 for 22-HS-MECH-00005, Training Module for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005, which addresses this work.

**INITIATING CUES (IF APPLICABLE):**

- Verify the tagout for accuracy.

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

Do you have any questions before we begin? - Answer applicable questions.

**Let's Begin**

**JPM PERFORMANCE INFORMATION**

**Required Materials:** Work Order KW100368717  
Training Module for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005  
Tagout Preparation and Review Checklist  
Highlight the drawings using the following convention

- Red for boundary items
- Yellow for Caution
- Orange for component being worked on

**General References:** OP-AA-200, Equipment Clearance, Rev. 10  
N-ACC-25-CL, Control Room Air Conditioning System Prestartup Checklist, Rev. 35

**Task Standards:** Inadequate clearance point(s) identified.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**Performance Step: 1**  
**Critical No**

OP-AA-200, Step 3.2.3.c

REVIEW the completed Tagging Record for accuracy and completeness, referencing controlled documents as necessary. The Reviewing SRO or designee shall:

- **ENSURE** that the tag-out is adequate for the tasks and hazards involved.
- **ENSURE** that the proper sequence of component alignment and tag placement is specified.
- **ENSURE** that the tag-out is in compliance with Technical Specification and regulatory requirements including maintaining redundant equipment operable.
- **ENSURE** that the appropriate entries have been made in the comment section of the Tagging Record.
- **DETERMINE** if support is required from Maintenance Personnel to execute the tag-out.

**Standard:**

Refer to documents as necessary to:

- **ENSURE** that the tag-out is adequate for the tasks and hazards involved.
- **ENSURE** that the proper sequence of component alignment and tag placement is specified.
- **ENSURE** that the appropriate entries have been made in the comment section of the Tagging Record.

**NOTE:**

Steps 3.2.3.d and 3.2.3.e provide direction for review of work package, and use of human performance toll checklists during the approval process, respectively.

**Performance:**

SATISFACTORY  UNSATISFACTORY

**Comments:**

---

<b>Performance Step: 2</b>	OP-AA-200, Step 3.2.3.f
<b>Critical <u>Yes</u></b>	<b>IF</b> the review indicates a deficiency, <b>THEN</b> the SRO or designee shall <b>NOTIFY</b> the preparer and <b>RESOLVE</b> the problem <b>OR RETURN</b> the tag-out to the preparer for resolution.
<b>Standard:</b>	<b>IDENTIFY</b> one of the following conditions to correct the tagging boundary: a. HS-1126, Shift Manager Office RHT Coil Hot WTR Return, must be added to the Tagging Record in CLOSED position. <b>OR</b> b. HS-1127, CR & SM Office Reheat Hot Water Return, and HS-1128, Control Room Hot Wtr Recirc Isol, must be added to the Tagging Record in CLOSED position.
<b>Evaluator Cue:</b>	If asked, only interested in the hanging portion of the procedure
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**Terminating Cues:** When the Tagging Record has been returned, "This completes this JPM."

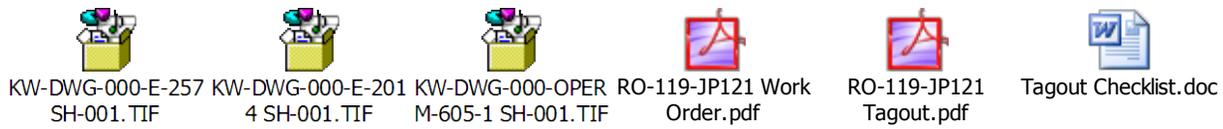
**Stop Time:** \_\_\_\_\_

RO-119-JP121, Equipment Tagging (Faulted), Rev. D

During the evaluation, the trainee:

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.



## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- Maintenance is preparing to repair or replace the Control Room Hot Water Heating Pump.
- You have been provided with a copy of Work Order KW100368717 for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005, which address this work.

### **INITIATING CUES (IF APPLICABLE):**

- Verify the tagout for accuracy.

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols 01/19/2011  
Validation Personnel /Date

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Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel/Date

Historical Record:

Revision B –

- Removed the reference to work on BT-32A.

Revision C –

- Added RO Task and Task Number
- Corrected JPM IMP values to NUREG-1122, Rev. 2 Supplement 1 values.
- Simplified Initial Conditions and Initiating Cue to reflect those associated with the task.
- General Reference procedure OP-KW-200-1001 is superseded by OP-AA-200, and has been deleted as a reference.
- Added the applicable conditions the reviewing person is directed to review in accordance with AOP-AA-200.
- Added additional isolation points which are also acceptable for isolating the work boundary. These include both of the return and recirculation isolation valves downstream of HS-1126 and HS-1124. Removed the statement that allowed the use of webtop.

Revision D

- Updated directions for highlighting the drawings Red for boundary, orange for component being worked on, yellow for caution.
- Incorporated NRC comment to have Performance Steps reflect steps of OP-AA-200: Steps 3.2.3.c and 3.2.3.f are the appropriate functional Performance Steps.
- OP-AA-200 revised to Rev. 10
- Changed Performance Step 1 to reflect actions of Step 3.2.3.c
- Added NOTE to Performance Step 1 to indicate what the intervening steps 3.2.3.d and 3.2.3.e direct.
- Changed Performance Step 2 to reflect actions of Step 3.2.3.f
- Added cue to step 2 for only interested in hanging portion of the procedure
- Changed Tagout Sheet to show status 42

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station

**JPM TITLE:** Equipment Tagging (Faulted)

**JPM NUMBER:** RO-119-JP121 **REV.** D

**RELATED PRA INFORMATION:** N/A

**TASK NUMBER(S) / TASK TITLE(S):** 1190150301 / Perform requirements of Tag Out Control  
1190120302 / Process a Tagout (SRO)

**K/A NUMBERS:** 2.2.13 - Knowledge of tagging and clearance procedures. IMP 4.1 / 4.3

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 30 Minutes Time Critical: No

Alternate Path / Faulted: Yes

**TASK APPLICABILITY:** RO / SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date

**JPM Number:** RO-119-JP121  
**JPM Title:** Equipment Tagging (Faulted)  
**Examinee:** \_\_\_\_\_ **Evaluator:** \_\_\_\_\_  
**Job Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Start Time** \_\_\_\_\_ **Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**                      **SAT:**                       **UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**EVALUATOR'S SIGNATURE:** \_\_\_\_\_

*NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.*

## JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- Maintenance is preparing to repair or replace the Control Room Hot Water Heating Pump.
- You have been provided with a copy of Work Order KW100368717 for 22-HS-MECH-00005, Training Module for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005, which addresses this work.

**INITIATING CUES (IF APPLICABLE):**

- Verify the tagout for accuracy.

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

Do you have any questions before we begin? - Answer applicable questions.

**Let's Begin**

**JPM PERFORMANCE INFORMATION**

**Required Materials:** Work Order KW100368717  
Training Module for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005  
Tagout Preparation and Review Checklist  
Highlight the drawings using the following convention

- Red for boundary items
- Yellow for Caution
- Orange for component being worked on

**General References:** OP-AA-200, Equipment Clearance, Rev. 10  
N-ACC-25-CL, Control Room Air Conditioning System Prestartup Checklist, Rev. 35

**Task Standards:** Inadequate clearance point(s) identified.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**Performance Step: 1**  
**Critical No**

OP-AA-200, Step 3.2.3.c

REVIEW the completed Tagging Record for accuracy and completeness, referencing controlled documents as necessary. The Reviewing SRO or designee shall:

- **ENSURE** that the tag-out is adequate for the tasks and hazards involved.
- **ENSURE** that the proper sequence of component alignment and tag placement is specified.
- **ENSURE** that the tag-out is in compliance with Technical Specification and regulatory requirements including maintaining redundant equipment operable.
- **ENSURE** that the appropriate entries have been made in the comment section of the Tagging Record.
- **DETERMINE** if support is required from Maintenance Personnel to execute the tag-out.

**Standard:**

Refer to documents as necessary to:

- **ENSURE** that the tag-out is adequate for the tasks and hazards involved.
- **ENSURE** that the proper sequence of component alignment and tag placement is specified.
- **ENSURE** that the appropriate entries have been made in the comment section of the Tagging Record.

**NOTE:**

Steps 3.2.3.d and 3.2.3.e provide direction for review of work package, and use of human performance toll checklists during the approval process, respectively.

**Performance:**

SATISFACTORY  UNSATISFACTORY

**Comments:**

---

<b>Performance Step: 2</b>	OP-AA-200, Step 3.2.3.f
<b>Critical <u>Yes</u></b>	<b>IF</b> the review indicates a deficiency, <b>THEN</b> the SRO or designee shall <b>NOTIFY</b> the preparer and <b>RESOLVE</b> the problem <b>OR RETURN</b> the tag-out to the preparer for resolution.
<b>Standard:</b>	<b>IDENTIFY</b> one of the following conditions to correct the tagging boundary: a. HS-1126, Shift Manager Office RHT Coil Hot WTR Return, must be added to the Tagging Record in CLOSED position. <b>OR</b> b. HS-1127, CR & SM Office Reheat Hot Water Return, and HS-1128, Control Room Hot Wtr Recirc Isol, must be added to the Tagging Record in CLOSED position.
<b>Evaluator Cue:</b>	If asked, only interested in the hanging portion of the procedure
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**Terminating Cues:** When the Tagging Record has been returned, "This completes this JPM."

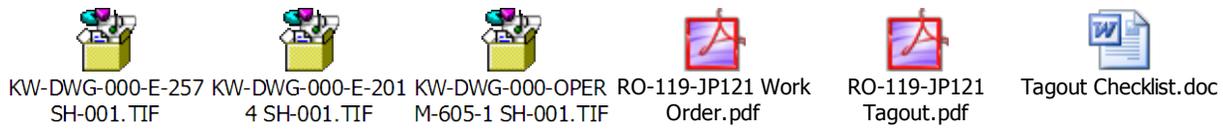
**Stop Time:** \_\_\_\_\_

RO-119-JP121, Equipment Tagging (Faulted), Rev. D

During the evaluation, the trainee:

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.



## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- Maintenance is preparing to repair or replace the Control Room Hot Water Heating Pump.
- You have been provided with a copy of Work Order KW100368717 for 22-HS-MECH-00005, and Drawings for 22-HS-MECH-00005, which address this work.

### **INITIATING CUES (IF APPLICABLE):**

- Verify the tagout for accuracy.

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols 01/19/2011  
Validation Personnel /Date

\_\_\_\_\_  
Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel/Date

Historical Record:

Revision B –

- Removed the reference to work on BT-32A.

Revision C –

- Added RO Task and Task Number
- Corrected JPM IMP values to NUREG-1122, Rev. 2 Supplement 1 values.
- Simplified Initial Conditions and Initiating Cue to reflect those associated with the task.
- General Reference procedure OP-KW-200-1001 is superseded by OP-AA-200, and has been deleted as a reference.
- Added the applicable conditions the reviewing person is directed to review in accordance with AOP-AA-200.
- Added additional isolation points which are also acceptable for isolating the work boundary. These include both of the return and recirculation isolation valves downstream of HS-1126 and HS-1124. Removed the statement that allowed the use of webtop.

Revision D

- Updated directions for highlighting the drawings Red for boundary, orange for component being worked on, yellow for caution.
- Incorporated NRC comment to have Performance Steps reflect steps of OP-AA-200: Steps 3.2.3.c and 3.2.3.f are the appropriate functional Performance Steps.
- OP-AA-200 revised to Rev. 10
- Changed Performance Step 1 to reflect actions of Step 3.2.3.c
- Added NOTE to Performance Step 1 to indicate what the intervening steps 3.2.3.d and 3.2.3.e direct.
- Changed Performance Step 2 to reflect actions of Step 3.2.3.f
- Added cue to step 2 for only interested in hanging portion of the procedure
- Changed Tagout Sheet to show status 42

## JOB PERFORMANCE MEASURE (JPM)

**SITE:** Kewaunee Power Station

**JPM TITLE:** Review Fuel Assembly Handling Deviation Report

**JPM NUMBER:** SO-119-JP311 **REV.** C

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** 1190310302 / Supervise Refueling operations

**K/A NUMBERS:** 2.1.42 RO Imp /SRO Imp 2.5 / 3.4

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Classroom  
 Lab:

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path / Faulted: Yes

**TASK APPLICABILITY:** SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andrew Fahrenkrug /s	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date



JPM BRIEFING/TURNOVER

**Read to Examinee:**

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS:**

- You are the Refueling SRO.
- Fuel movement is in progress.
- A condition has occurred such that the fuel assembly J53 assigned to core location G-12 is required to be moved to a temporary storage location at core location E-12.
- A qualified fuel Handler is stationed at the proposed storage location
- NF-KW-RRF-014 ATTACHMENT C, Fuel Assembly Handling Deviation Report (FAHDR), has been created to document this change in the Fuel Assembly Movement Sequence (FAMS).

**THE STEPS IN THIS JPM SHOULD BE: PERFORMED**

**THIS JPM IS NOT TIME CRITICAL.**

**INITIATING CUES (IF APPLICABLE):**

You have been asked to review the FAHDR allowing fuel assembly J53 to be moved to core location E-12 for approval per NF-KW-RRF-014, step 5.1.8.b through 5.1.8.e.

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

Do you have any questions before we begin? - Answer applicable questions

**Let's Begin**

Retention: Life of plant insurance policy + 10 years

KPS-JPMSROA1-L-SRO-A-01212011-098

Retain in: Training Program File

### JPM PERFORMANCE INFORMATION

**Required Materials:** Marked up page from FAMS showing previous fuel assembly movement and the next set of movements.  
FAHDR showing movement of assembly to Temporary Storage location.  
CORE Layout with identified fuel assemblies  
Marked up NF-KW-RRF-014

**General References:** GNP-02.07.01, Refueling Operations – Logkeeping Watchstanding, and Shift Turnover, Rev. 3;  
NF-KW-RRF-014, Fuel Movement During a Refueling Outage, Rev. 7  
RE-24, Special Nuclear Materials Control, Rev. 22  
NAD-02.07, Kewaunee Refueling Operations, Rev 7

**Task Standards:** SRO denies approval of FAHDR due to location at core baffle with less than two open spaces between temporary storage location and core assemblies, and less than one open location between the core and the stored assembly.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

<b>Performance Step: 1</b>	NF-KW-RRF-014, Step 5.1.8.b.
<b>Critical <u>No</u></b>	<b>IF</b> deviations from the sequence listed in the FAMS are necessary, <b>THEN ENSURE</b> the following conditions are satisfied:  The deviation does NOT violate Technical Specification 4.3, Fuel Storage, requirements.
<b>Standard:</b>	Determine the requirements of Technical Specification 4.3 are met.
<b>Evaluator Note:</b>	<b>Technical Specification 4.3 relates to new and spent fuel storage. The TS applies to the SFP spent fuel storage racks, spent fuel pool drainage, and capacity.</b>
<b>Evaluator Cue:</b>	<b>If asked about Step 5.1.8.a and the Westinghouse Field Specification F-5 requirements, "You and the Reactor Engineer have reviewed the F-5 requirements and determined the move is not prohibited by any of these requirements."</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 2</b>	NF-KW-RRF-014, Step 5.1.8.c.
<b>Critical <u>Yes</u></b>	IF deviations from the sequence listed in the FAMS are necessary, THEN VERIFY the following conditions are satisfied:  Deviations to temporary locations meet the guidelines of Steps 4.26 and 4.27.
<b>Standard:</b>	Reviews the guidelines of Steps 4.26 and 4.27 Determine the requirements of 4.26 are met. Determine the requirements of 4.27 are NOT met since the assembly is being stored in a baffle location, with NO open location existing between the temporary storage location and the fuel assemblies already in the core.
<b>Evaluator Note:</b>	<b>The P&amp;Ls read:</b> <b>4.26 Irradiated nuclear fuel and inserts shall only be permanently stored in the reactor core or spent fuel pool racks. The following guidelines shall be adhered to when temporarily storing irradiated fuel and inserts:</b> <ul style="list-style-type: none"><li>• Temporary storage is allowed only when the fuel handling crew is on station at the storage location</li><li>• Temporary storage locations include the manipulator crane, SFP bridge crane, RCC change fixture, upender, and new fuel elevator</li></ul> <b>4.27 Temporary storage of assemblies in baffle locations is permissible if <u>NO</u> stored assembly is face-adjacent to any other stored assembly and there are at least two open locations between the stored assembly and the core assemblies. At the core periphery, at least one open location shall be maintained between the core and any stored baffle assembly.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 3</b>	NF-KW-RRF-014, Step 5.1.8.d.
<b>Critical <u>Yes</u></b>	IF deviations from the sequence listed in the FAMS are necessary, THEN VERIFY the following conditions are satisfied:  The deviation is approved by the RXE and Refueling SRO (approval may be verbal to facilitate fuel movement but must be initialed before the end of the current shift).
<b>Standard:</b>	Approval for the deviation is denied by the Refueling SRO based on not meeting the requirements of P&L 4.27.
<b>Evaluator Note:</b>	<b>This step may not be performed. If the Performer identifies the movement is NOT allowed during Performance Step 2, he/she may refuse approval at that step without proceeding to the next procedure step. That is satisfactory performance for this critical step.</b>
<b>Evaluator Cue:</b>	<b>If Performer does not give reason for not approving FAHDR, then ask followup question, "Why have you decided NOT to approve the FAHDR?"</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 4</b>	NF-KW-RRF-014, Step 5.1.8.e.
<b>Critical <u>No</u></b>	IF deviations from the sequence listed in the FAMS are necessary, THEN VERIFY the following conditions are satisfied:  The deviation is documented on ATTACHMENT C.
<b>Standard:</b>	None
<b>Evaluator Note:</b>	<b>This step may not be performed since the approval should be denied. The deviation is listed on ATTACHMENT C, Fuel Assembly Handling Deviation Report (FAHDR), but should not be approved or performed.</b>
<b>Evaluator Note:</b>	<b>The evaluator may wish to add a follow-up question of “where an acceptable temporary storage location would be?”</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**Terminating Cues:** When decision on FAHDR approval is made: “This completes this JPM.”

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

SO-119-JP311, Review Fuel Assembly Handling Deviation Report, Rev. C

**During the evaluation, the trainee:**

**Evaluation**

- |   |                               |                               |
|---|-------------------------------|-------------------------------|
| • Performed the task correctly and in accordance with procedure usage and adherence requirements. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never put anyone's safety at risk.  | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never put equipment reliability at risk.  | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Never violated radiological work practices.   | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| • Demonstrated effective use of event-free human performance tools.                               | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |

## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

- You are the Refueling SRO.
- Fuel movement is in progress.
- A condition has occurred such that the fuel assembly J53 assigned to core location G-12 is required to be moved to a temporary storage location at core location E-12.
- A qualified fuel Handler is stationed at the proposed storage location
- NF-KW-RRF-014 ATTACHMENT C, Fuel Assembly Handling Deviation Report (FAHDR), has been created to document this change in the Fuel Assembly Movement Sequence (FAMS).

### **THE STEPS IN THIS JPM SHOULD BE: PERFORMED**

**THIS JPM IS NOT TIME CRITICAL.**

### **INITIATING CUES (IF APPLICABLE):**

You have been asked to review the FAHDR allowing fuel assembly J53 to be moved to core location E-12 for approval per NF-KW-RRF-014, step 5.1.8.b through 5.1.8.e.

**Inform Evaluation when you are ready to begin.**

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
• Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols 01/19/2011  
Validation Personnel /Date

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Validation Personnel/Date

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Validation Personnel /Date

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Validation Personnel/Date

SO-119-JP311, Review Fuel Assembly Handling Deviation Report, Rev. C

Historical Record:

Rev. A:

- NEW

Rev B

- Updated to the currently revision level of the procedures.
- Updated to the currently template revision level.

Rev C

Updated initial conditions to reflect P&L 4.26 for qualified fuel handler stationed  
Updated for Procedure Revision to NF-KW-RRF-014

**JOB PERFORMANCE MEASURE (JPM) THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**SITE:** KPS

**JPM TITLE:** Make Initial Event Notification

**JPM NUMBER:** AO-119-JP231 **REV.** D

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** 1190230304 - Demonstrate an understanding of the responsibilities and requirements for the NAO.  
1190060301 - Perform emergency notifications from the control room

**K/A NUMBERS:** 2.4.43 RO 2.8/ SRO 3.5

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 15 Minutes Time Critical: Yes

Alternate Path / Faulted: Yes

**TASK APPLICABILITY:** \_\_\_\_\_

Additional signatures may be added as needed.

<b>Developed by:</b>	Andy Fahrenkrug /s	01/19/2011
	Instructor	Date
<b>Validated by:</b>	Andy Fahrenkrug /s	01/19/2011
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	John Egdorf /s	01/24/2011
	Emergency Preparedness	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date



**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

JPM BRIEFING/TURNOVER

***Read to Examinee:***

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**INITIAL CONDITIONS/ INITIATING CUE:**

- The Shift Manager, acting as Emergency Director, just declared a Site Area Emergency due to a LOCA.

Evaluator Note: Record Time and Date for the classification on the NARS Form as the start time of the JPM

- The ED/SM informs you that you are the Notifier with an event in progress. Prepare to make the initial event notifications by performing the actions of the Control Room Notifier.

**THIS TASK IS TIME CRITICAL**

- **INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

Do you have any questions before we begin? - Answer applicable questions

- **Let's Begin**

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN  
ACCORDANCE WITH 10CFR2.390**  
**JPM PERFORMANCE INFORMATION**

**Required Materials:** Form EPIPF-AD-07-01 Nuclear Accident Reporting Form (NARS), Rev. 28 Event Notice filled in by ED (Blocks 1-11 plus Approval Signature)  
Form EPIPF-AD-07-05, State and County Notification, Rev 4

**General References:** EPIP-AD-07, Emergency Notification, Rev. 57

**Task Standards:** Complete event notifications IAW EPIP-AD-07 with initial State & County contact made within 15 minutes of the event declaration. County contact is satisfied when either the Kewaunee County Sheriff Dispatch or the Manitowoc County Sheriff is called.

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Yes” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**Evaluator NOTE:** A blank NARS form (Form EPIPF-AD-07-01) has been provided if it is desired to transcribe the Performer’s message to the State and County personnel.

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**Evaluator Cue: 9 minutes after classification time recorded on the NARS form record time for ED signature**

- 1. State the following “I want you to read the NARS form to me then begin Notifications”**
- 2. Hand the NARS form to the performer**
- 3. Answer any questions that the performer may have on the entries.**

**Performance Step: 1**

EPIP-AD-07, Step 5.2.2

**Critical: No**

Notifications are performed per EPIPF-AD-07-05, “State and County Notifications.”

**Standard:**

Obtain a copy of Form EPIPF-AD-07-05.

**Evaluator Note:**

**Reference to EPIP-AD-07 is NOT required. The individual is expected to follow the guidance of Form EPIPF-AD-07-05, State And County Notification. The form is normally contained in the Control Room Notifier notebook at the notification desk. Additional copies of this form are located in the lower left drawer at the notifier desk. The Performer will be expected to obtain the form from one of these locations.**

**Evaluate Note/Cue:**

**The performer may ask the following question referring to the performance of steps in EPIP-AD-07 if this occurs then State the following for questions**  
**1. SAS notification? – Response “SAS has been notified”**

**Performance:**

SATISFACTORY  UNSATISFACTORY

**Comments:**

\_\_\_\_\_

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 2</b>	Form EIPF-AD-07-05, Step 1.
<b>Critical: <u>No</u></b>	Verify Form EIPF-AD-07-01, "Event Notice - Nuclear Accident Reporting System Form (NARS)," received from the SM/ED or ERM has their approval signature, time and date.
<b>Standard:</b>	<ul style="list-style-type: none"><li>• Verify Approval Signature blank between Blocks 11 and 12 completed with signature date and time.</li><li>• Check the blank next to step 1 on Form EIPF-AD-07-05.</li></ul>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 3</b>	Form EIPF-AD-07-05, Step 2.
<b>Critical: <u>No</u></b>	Complete Block 12 of Form EIPF-AD-07-01, "Event Notice- Nuclear Accident Reporting System Form (NARS)."
<b>Standard:</b>	Operator prints name in block 12, Emergency Communicator.
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 4</b>	Form EIPF-AD-07-05, Step 3
<b>Critical: <u>No</u></b>	"Pick up the Dial Select phone and verify the line is clear"
<b>Standard:</b>	Pick up the phone and listen to determine if the line is clear and operating.
<b>Evaluator Note:</b>	<b>The LINE will be dead; it will be unplugged to simulate a dead line.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 5</b>	Form EIPF-AD-07-05, Step 4
<b>Critical: <u>No</u></b>	“WHEN the line is clear, Dial “22” (All Call for agencies to be notified). a. If the Dial Select system is not operating, <u>THEN</u> go to Step 11 (Using Secondary Method, Commercial Phone)
<b>Standard:</b>	Identify that the Dial Select System is NOT operating and go to step 11.
<b>Evaluator Note:</b>	<b>The LINE will be dead; it will be unplugged to simulate a dead line.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b>	Form EIPF-AD-07-05, Step 11.a								
<b>Critical: <u>Yes</u></b>	IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.								
<b>TIME CRITICAL</b>									
<b>Time contact State</b>									
<b>Warning Center I or II 15 minutes from start of JPM</b>	<table border="0"> <thead> <tr> <th style="text-align: center;"><u>AGENCY</u></th> <th style="text-align: center;"><u>COMMERCIAL #</u></th> </tr> </thead> <tbody> <tr> <td>State Warning Center I or II</td> <td>9-1(800) 943-0003</td> </tr> <tr> <td>Kewaunee County Sheriff</td> <td>9-1(920) 388-7108</td> </tr> <tr> <td>Manitowoc County Sheriff</td> <td>9-1(920) 683-4201</td> </tr> </tbody> </table> <p>Call each applicable agency number in the order shown above</p>	<u>AGENCY</u>	<u>COMMERCIAL #</u>	State Warning Center I or II	9-1(800) 943-0003	Kewaunee County Sheriff	9-1(920) 388-7108	Manitowoc County Sheriff	9-1(920) 683-4201
<u>AGENCY</u>	<u>COMMERCIAL #</u>								
State Warning Center I or II	9-1(800) 943-0003								
Kewaunee County Sheriff	9-1(920) 388-7108								
Manitowoc County Sheriff	9-1(920) 683-4201								
<b>Standard:</b>	Call each agency in the proper sequence starting with the State Warning Center.								
<b>Evaluator Note:</b>	<b>Have the operator simulate using the phone. Only the first agency called will be completed (Steps 11.c through 11.e), as all others are only a repeat. The State Warning Center must be the agency called first for this to be completed correctly.</b>								
<b>Evaluator Cue:</b>	<b>Respond as the agency being called. “This is the State Warning Center I.”</b>								
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>								
<b>Comments:</b>	_____								

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 7</b>	Form EPIPF-AD-07-05, Step 11.b
<b>Critical: <u>NO</u></b>	IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.  <u>WHEN</u> the party answers, record the time on Form EPIPF-AD-07-01 (NARS form).
<b>Standard:</b>	<ul style="list-style-type: none"><li>• When the State Warning Center I answers the operator records the time in the correct blank on EPIPF-AD-07-01.</li><li>• The time recorded below (and on NARS for by Performer) is within the allowable time for notifications.</li></ul>
<b>Evaluator Note:</b>	<b>Have the operator simulate using the phone. Only the first agency called will be completed (Steps 11.c through 11.e), as all others are only a repeat. The State Warning Center must be the agency called first for this to be completed correctly. Ensure the time is recorded for the State Warning Center.</b>  Record Time contact to State Warning Center is made. _____
<b>Evaluator Cue:</b>	<b>Respond as the agency being called: “This is the State Warning Center I.”</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 8</b>	Form EPIPF-AD-07-05, Step 11.c
<b>Critical: <u>Yes</u></b>	IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.  Read the message on Form EPIPF-AD-07-01 text aloud, SLOWLY AND DELIBERATELY, using number and letter designation (Ref: "Phonetic Alphabet.").
<b>Standard:</b>	Read text from NARS from Blocks 1 through 12 using the proper number and letter designations.
<b>Evaluator Note:</b>	<b>If the Performer incorrectly reported information in this step, then repeat back of information as provided in Performance Step 12 allows for correction. If the Performer corrects all errors, then Performance Step 11 is performed SATISFACTORY.</b>
<b>Evaluator Cue:</b>	<b>Identify that you are prepared to receive the Kewaunee Nuclear Accident Reporting System (NARS) message.  Record message information such that repeat back can be performed. (See provided form)</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 9</b>	Form EPIPF-AD-07-05, Step 11.d
<b>Critical: <u>No</u></b>	IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.  Say: “agency name (State Warning Center I), please read back this message to verify accuracy.”
<b>Standard:</b>	Directs State Warning Center I to read back message and allows time for message to be read.
<b>Evaluator Note:</b>	<b>If the Performer incorrectly reported information in Performance Step 11, then repeat back of information as provided allows for correction. If the Performer corrects all errors, then Performance Step 11 is performed SATISFACTORY.</b>
<b>Evaluator Cue:</b>	<b>When asked to read back this message to verify accuracy, If all Blocks 1 through 12 were correctly read as written, “The message has been read back correctly.”</b>  <b>If any portion of the message was delivered incorrectly, read back the NARS form as reported including the incorrect information. If Performer identifies and corrects errors, then repeat back corrections. Report that all agencies have been contacted and they have all read back the messages accurately.</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 10</b> <b>Critical: <u>No</u></b>	Form EIPF-AD-07-05, Step 11.e  IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.  Say: "Relay this information to Emergency Management immediately. Have the appropriate personnel verify this message by placing a return phone call to the Kewaunee Power Station at 920-388-0101."  <b>Standard:</b> Read the message as stated.
<b>Evaluator Cue:</b>	<b>Acknowledge the message.</b>
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	<hr/>

<b>Performance Step: 11</b> <b>Critical: <u>Yes</u></b>	Form EIPF-AD-07-05, Step 11.f  IF any agencies did not respond to the Dial Select, THEN complete the State and County Event Notification using the secondary method, commercial phone.  UNTIL all agencies have been notified, repeat steps a through e.  <b>Standard:</b> Dials Kewaunee County Sheriff <b>OR</b> Manitowoc County Sheriff AND records time records the time in the correct blank on EIPF-AD-07-01.
<b>Evaluator Cue:</b>	<b>If Kewaunee County Sheriff called, "This is Kewaunee County Sheriff."  "Message has been received, repeat back performed and call completed for Kewaunee County Sheriff."  OR  If Manitowoc County Sheriff called, "This is Manitowoc County Sheriff."  "Message has been received, repeat back performed and call completed for Manitowoc County Sheriff."</b>
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	<hr/>

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**Terminating Cues:** When Performer contacted the State Warning Center, and either the Kewaunee County Sheriff or Manitowoc County Sheriff, “and read information on the NARS Form state “This completes the JPM.”

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

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**During the evaluation, the trainee:**

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.



Marked Up Nars  
Form.pdf



AO-119-JP231, Make Initial Event Notification, Rev. D

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

Retention: Life of plant insurance policy + 10 years  
Retain in: Training Program File

KPS-JPMROA4-L-RO-A-01212011-101

SIMULATOR SET UP:

Simulator Setup Instructions:

- 1. Unplug the Dial Select Phone cord to simulate a dead line.**

## **TURNOVER SHEET**

### **INITIAL CONDITIONS/ INITIATING CUE:**

- The Shift Manager, acting as Emergency Director, just declared a Site Area Emergency due to a LOCA
- The ED/SM informs you that you are the Notifier with an event in progress. Prepare to make the initial event notifications by performing the actions of the Control Room Notifier.

**THIS TASK IS TIME CRITICAL**

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**  
**ATTACHMENT 1**

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Chris Brandt 01/19/2011  
 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

\_\_\_\_\_  
 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

\_\_\_\_\_  
 Validation Personnel /Date

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 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

Retention: Life of plant insurance policy + 10 years  
 Retain in: Training Program File

KPS-JPMROA4-L-RO-A-01212011-101

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

Historical Record:

Rev B:

- Changed JPM number from “JP23B” to “JP231” to meet Standards of Training Job Aid 1 for JPM identification. This is an Alternate Path JPM and the last number should be a digit. The “normal” path using the Dial Select phone should be AO-119-JP23B.
- Verified steps updated to latest procedure revision.
- Updated steps to ensure Form EPIPF-AD-07-05 actions covered.
- Updated steps to ensure all three agencies are contacted as directed.
- Added step to notify ED/SM as appropriate ending point.

Rev C.

- Verified steps updated to latest procedure revision.
- Updated to the current JPM template.
- Added security note in the header.

Rev. D

Incorporated NRC Comments

- Removed the plant/event status information from Initiating Cues
- Added to Task Standard, “County contact is satisfied when either the Kewaunee County Sheriff Dispatch or the Manitowoc County Sheriff is called.”
- Changed the initiating cue to prepare to make initial event notifications
- Added Cue and Note prior to first step of JPM to direct the administrator to hand NARS form and cue performer to begin notifications 9 minutes after start of JPM. One minute is given to read the NARS form to the performer and for the performer to read the NARS form back to the administrator.
- Changed Performance Step 14 to have step satisfied if either the Kewaunee County Sheriff OR the Manitowoc County Sheriff contacted.
- Deleted Steps 1-4 and re-numbered replaced with notes
- Deleted Performance Step 15 concerning report to SM/ED
- Added Evaluator NOTE prior to Performance Steps that states a blank NARS form is provided for recording information as reported to State Warning Center
- Added blank NARS to JPM following Performance Steps
- Changed initial cues to aid in administration
- Incorporated Evaluator Notes and Cue prior to step 1 into step 1
- Made NARS form classification time and date blank

	<b>JOB PERFORMANCE MEASURE (JPM)</b> <b><u>THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD</u></b> <b><u>FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390</u></b>	
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**SITE:** Kewaunee Power Station

**JPM TITLE:** Determine PAR Change: Wind Shift

**JPM NUMBER:** SO-119-JP05E **REV.** C

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** 1190050502 Provide Off-Site authorities with Protective Action Recommendations

**K/A NUMBERS:** 2.4.29 - Knowledge of the Emergency Plan (CFR 41.10/43.5/45.11 SRO 4.4)  
 2.4.44 Knowledge of emergency plan protective action recommendations (CFR 41.10/41.12/43.5/45.11 SRO 4.4)

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 30 Minutes Time Critical: Yes

Alternate Path / Faulted: NO

**TASK APPLICABILITY:** SRO

Additional signatures may be added as needed.

<b>Developed by:</b>	Andrew Fahrenkrug /s	01/18/2011
	Instructor	Date
<b>Validated by:</b>	Andrew Fahrenkrug /s	01/18/2011
	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
<b>Reviewed by:</b>	John Egdorf /s	01/24/2011
	Emergency Preparedness	Date
<b>Approved by:</b>	Randy Hastings /s	01/24/2011
	Training Supervisor	Date
<b>Approved by:</b>	Mark Goolsbey /s	01/25/2011
	Facility Representative	Date

Retention: Life of plant insurance policy + 10 years  
 Retain in: Training Program File

KPS-JPMSROA5-L-SRO-A-01212011-096

**JPM Number:** SO-119-JP05E Rev C

**JPM Title:** Determine PAR Change: Wind Shift, Rev C

**Examinee:** \_\_\_\_\_ **Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_ **Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:** **SAT:**  **UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**EVALUATOR'S SIGNATURE:** \_\_\_\_\_

*NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.*

JPM BRIEFING/TURNOVER

***Read to Examinee:***

**DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

AOP and EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

1. Human Performance attributes should be visible. The student may use STAR and or request Peer Checks.
2. If peer checks are requested, the Instructor should reply – “Peer Check Acknowledged”. The instructor will acknowledge use of the human performance tool and not validate the proper component manipulation.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**EVALUATOR NOTE: Fill in notification time on NARS form giving to the performer as 7 minutes prior to JPM start time**

**INITIAL CONDITIONS:**

**\*THIS IS A DRILL\***

- You are the Shift Manager/Emergency Director
- A General Emergency FG1 was declared 20 minutes ago and notifications were completed 7 minutes ago.
- Current status of the plant:
- SG 'A' is Faulted – SG A PORV 3A has failed OPEN
- SG 'A' is Ruptured – The SG 'A' tube rupture has resulted in ECCS actuation
- A common failure in the Safety Injection Pump's wiring has resulted in the tripping of both Safety Injection Pumps
- Core Exit Thermocouple temperatures are 720°F and rising
- Total elapsed time from the beginning event (starting with the Reactor Trip) has been 32 minutes
- Notifier is still in the Control Room
- As the Shift Manager/Emergency Director in the Control Room you are implementing Emergency Plan Procedures for the given conditions and any additional reports up to and including completion of the NARS form and directing notification if required.
  - Provide the student at this time with the completed NARS form and marked copy of Form EPIPF-CR-01-01
  - After the student has had ample time to review the completed NARS form and marked up EPIP, and gain understanding of the initial conditions then give the initiating CUE
- Do you have any questions on the initial conditions before we begin? - Answer applicable questions

**This is a TIME CRITICAL JPM**

**INITIATING CUES (IF APPLICABLE):**

The STA has reported the wind has just suddenly shifted

**INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**

**Let's Begin**

**JPM PERFORMANCE INFORMATION**

**Required Materials:** EPIP-AD-19 Rev. 28, “Determining Protective Action Recommendations”  
EPIP-AD-02 Rev. 46, “Emergency Class Determination”  
Form EIPF-AD-07-01 Rev 31, “Event Notice-NARS Form”  
Form EIPF-CR-01-01 Rev. 9, “EMERGENCY DIRECTOR (CR) CHECKLIST”  
Emergency Action Level Matrix Rev 7  
KW-PLAN-000-EAL Rev 6, “Kewaunee Power Station Emergency Action Level Technical Bases Document”

**General References:** EPIP-CR-01 Rev 5, “Control Room Emergency Response.”  
Emergency Action Level Matrix Rev 7  
EPIP-AD-02 Rev. 46 “Emergency Class Determination”  
EPIP-AD-19 Rev. 28, “Determining Protective Action Recommendations”  
EPIP-AD-07 Rev. 57, “Emergency Notifications”  
Form EIPF-AD-07-01 Rev 29, Event Notice-NARS Form  
Form EIPF-CR-01-01 Rev. 6, EMERGENCY DIRECTOR (CR) CHECKLIST  
DNAP-2605 Rev 10, “Emergency Preparedness Performance Indicators”  
KW-PLAN-000-EAL Rev 6, “Kewaunee Power Station Emergency Action Level Technical Bases Document”

**Task Standards:** Timely and accurate completion of EIPF-AD-07-01 for PAR Change due to a wind shift

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

**NOTE:** When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

**NOTE:** Review GNP-05.16.06, ATTACHMENT A for Time Dependent Operator Actions. If the JPM addresses one of these tasks and the JPM is determined to be time critical or contain time critical performance steps, then GNP-05.16.06 will be included in the General References below. [OTH 12765]

**NOTE:** Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

**NOTE:** Completed EIPF-AD-07-01 forms are provided as a KEY

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 1</b> <b>Critical <u>YES</u></b>	<b>Examinee recognizes that a new EPIPF-AD-07-01 is required.</b>
<b>Standard:</b>	<b>Examinee recognizes that a new EPIPF-AD-07-01 is required.</b>
<b>Evaluator Cue:</b>	None
<b>Evaluator Note:</b>	EPIPF-AD-07-01, EPIP-CR-01, And EPIP-AD-07 all contain guidance that a new EPIPF-AD-07-01 is required for a changed in wind direction which is a PAR Change.  EPIPF-CR-01-01 Section 2, Ongoing actions with command and control in the control room, gives direction on monitoring EALS and PARS. Provides direction for a new NARS form with a PAR Change.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b> <b>Critical: <u>No</u></b>	<b>Sentence above Box 1 circle CR in the sentence: This is the Kewaunee Power Station calling from the (circle one) CR/TSC/EOF. An incident has occurred at our facility.</b>
<b>Standard:</b>	<b>Circle CR in the sentence: This is the Kewaunee Power Station calling from the (circle one) CR/TSC/EOF. An incident has occurred at our facility.</b>
<b>Evaluator Note:</b>	This <u>IS NOT</u> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b> <b>Critical: <u>No</u></b>	<b>Box 1: Reason For Call: Check box for PAR Change</b>
<b>Standard:</b>	<b>Box 1: Check box for PAR Change</b>
<b>Evaluator Note:</b>	Box 1 <u>IS NOT</u> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step:4</b> <b>Critical: <u>Yes</u></b>	<b>Box 2: Status: Check Box for [B] Drill/Exercise</b>
<b>Standard:</b>	<b>(c) Box 2: Box checked for [B] Drill/Exercise</b>
<b>Evaluator Note:</b>	Box 2 <u>IS</u> graded during EP exercises and must be marked “[B]”. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step:5</b> <b>Critical: <u>No</u></b>	<b>Box 3: Station/Affected Unit: Check Box for Kewaunee</b>
<b>Standard:</b>	<b>Box 3: Check Box for Kewaunee</b>
<b>Evaluator Note:</b>	Box 3 <u>IS NOT</u> graded during EP exercises. Reference DNAP-2605. Box 3 is pre-checked on Form
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step: 6</b> <b>Critical: <u>Yes</u></b>	<b>Box 4: Onsite Classification: Check box for General Emergency</b>
<b>Standard:</b>	<b>(c) Box 4: Check box for General Emergency</b>
<b>Evaluator Note:</b>	Box 4 <u>IS</u> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 7</b> <b>Critical: <u>YES</u></b>	<b>Box 5: Time &amp; Date of Classification / PAR Change / Termination</b> 1) Check Box [B] PAR Change 2) Complete PAR Change Time and Date
<b>Standard:</b> (c)	<b>Box 5: Time &amp; Date of Classification / PAR Change / Termination</b> 1) Check Box [B] PAR Change 2) Complete PAR Change Time and Date Time and should match date and time of JPM being administered
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step:8</b> <b>Critical: <u>Yes</u></b>	<b>Box 6: Release Status: Check box [B] OCCURRING</b>
<b>Standard:</b>	(c) <b>Box 6: Check box [B] OCCURRING</b>
<b>Evaluator Note:</b>	Box 6 <u>IS</u> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: <u>No</u></b>	<b>Box 7: Type of Release: Check box [B] Airborne</b>
<b>Standard:</b>	<b>Box 7: Check box [B] Airborne</b>
<b>Evaluator Note:</b>	Box 7 <u>IS NOT</u> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step:10</b>	<b>BOX 8: Wind Direction:</b>
<b>Critical: <u>NO</u></b>	1) Enter Wind Direction: 56 2) Circle Downwind Sectors: K L M N
<b>Standard:</b>	<b>BOX 8: Wind Direction:</b>
(c)	1) Enter Wind Direction: 56 degrees 2) Circle Downwind Sector: “K L M N” Circled
<b>Evaluator Cue:</b>	<b><u>IF</u></b> asked primary 10-meter MET DATA is functioning normal
<b>Evaluator Note:</b>	The student will have to locate the information on PPCS or if the student uses the electronic NARS form this information will be filled in automatically
<b>Evaluator Note:</b>	For current Information from a PPCS workstation, go to: Main Menu / EP Menu / TSC 2 Environmental / Radiation
<b>Evaluator Note:</b>	Box 8 wind direction value <u>IS</u> graded during EP exercises. Minor discrepancies in wind speed need not count as a missed notification provided the discrepancy would not result in an incorrect PAR.
<b>Evaluator Note:</b>	<b>Box becomes a critical step if the performer does not use the computer</b>
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b>	<b>Block 9: Wind Speed:</b>
<b>Critical: <u>NO</u></b>	1) MILES/HR – 15 2) Stability Class – Circle E
<b>Standard:</b>	<b>Block 9: Wind Speed:</b>
(c)	1) MILES/HR – 15 2) Stability Class – Circle E
<b>Evaluator Cue:</b>	<b><u>IF</u></b> asked primary 10-meter MET DATA is functioning normal
<b>Evaluator Note:</b>	Box 9 wind speed value <u>IS</u> graded during EP exercises. Minor discrepancies in wind speed need not count as a missed notification provided the discrepancy would not result in an incorrect PAR.
<b>Evaluator Note:</b>	<b>Box becomes a critical step if the performer does not use the computer</b>
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**NOTE: The instructions for determining PAR are contained in EPIP-AD-019. For this instance the PAR has not changed completing the NARS form a change in release status**

**Performance Step: 12**  
**Critical: Yes**

**Block 10: Protective Action Recommendations:**  
1) Check Box [B]  
2) On the lines with box [B] complete the PAR

**Standard:**

**Block 10: Protective Action Recommendations:**  
(c) 1) Check Box [B]  
(c) 2) The lines associated with box [B] read the following:  
**EVACUATE ALL SECTORS OUT TO 2 MILES**  
**EVACUATE SECTORS K L M N P OUT TO 5 MILES**

**Evaluator Note:**

The performer may use EPIP-AD-19 to determine PARS recommendation. Using either the checklist EIPF-AD-20-02 or procedure EPIP-AD-19 is acceptable to determine the PARS for this JPM.

**Evaluator Note:**

For current Information from a PPCS workstation, go to: Main Menu / EP Menu / TSC 2 Environmental / Radiation

**Evaluator Note:**

All of Box 10 IS graded during EP exercises. Reference DNAP-2605

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

\_\_\_\_\_

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 13</b>	<b>EPIP-AD-19 for PAR Determination</b>
<b>Critical <u>NO</u></b>	<b>5.1 Determine a default PAR for the declared emergency classification</b> <b>5.1.1 Evaluate if Sheltering is preferable to evacuation due to</b> <b>a. Significant core damage has occurred and</b> <b>b. A release is in progress and of a known short duration</b>
<b>Standard:</b>	<b>Determine that evacuation IS preferable to sheltering due to the absence of BOTH significant core damage <u>AND</u> a release in progress of known short duration</b>
<b>Evaluator Cue:</b>	<ul style="list-style-type: none"><li>• <b><u>IF</u></b> asked if there is significant core damage, <b><u>THEN</u></b> state “There has been no reports from the US, STA or Board Operators indicating significant core damage.”</li><li>• <b><u>IF</u></b> asked for R-40 or R-41 Reading, <b><u>THEN</u></b> state “That R-40 is reading &lt;1R/hr and R-41 is reading &lt;1R/hr and stable.”</li><li>• <b><u>IF</u></b> asked for CET, <b><u>THEN</u></b> state “That CET is 721°F and slowly rising.”</li></ul>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

Performance Step: 14      Refer to EPIP-AD-19 for PAR Determination  
Critical NO              5.1 Determine a default PAR for the declared emergency classification  
                                    5.1.2 Evaluate if Sheltering is preferable to evacuation due to  
                                    a. The presence of severe weather  
                                    b. Competing disasters or  
                                    c. Local physical dangers that impede evacuation

Standard:                      Determine that evacuation is preferable to sheltering due to the absence of severe weather, competing disasters or local physical dangers that impede evacuation.

- Evaluator Cue:
- **IF** asked if there is severe weather, **THEN** state “That there is no severe weather.”
  - **IF** asked if there are competing disasters, **THEN** state “There are no competing disasters.”
  - **IF** asked if there are any local physical dangers that have been reported that would impeded evacuation state, **THEN** state “There are no local physical dangers reported that would impede evacuation.”

Performance:                      SATISFACTORY  UNSATISFACTORY

Comments:                      \_\_\_\_\_

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 15</b> <b>Critical <u>NO</u></b>	<b><u>IF</u> evacuation is determined to be preferable to sheltering, <u>THEN</u> use step 5.1.5 to complete form EPIPF-AD-07-01, “Event Notice – Nuclear Accident Reporting System Form (NARS),” Box 10</b>
<b>Standard:</b>	<b>Determine evacuation IS preferable to sheltering due to the absence of severe weather, competing disasters or local physical dangers that impede evacuation.</b>
<b>Evaluator Cue:</b>	<ul style="list-style-type: none"><li>• <b><u>IF</u></b> asked if there is severe weather, <b><u>THEN</u></b> state “That there is no severe weather.”</li><li>• <b><u>IF</u></b> asked if there are competing disasters, <b><u>THEN</u></b> state “There are no competing disasters.”</li><li>• <b><u>IF</u></b> asked if there are any local physical dangers that have been reported that would impeded evacuation state, <b><u>THEN</u></b> state “There are no local physical dangers reported that would impede evacuation.”</li></ul>
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step: 16</b> <b>Critical <u>NO</u></b>	<b>EPIP-AD-19 Section 5.15, IF Adverse Meteorology Exist</b>
<b>Standard:</b>	<b>Determine that Adverse meteorology DOES NOT Exist.</b>
<b>Evaluator Note:</b>	The examinee can use PPCS screens to determine. The electronic NARS form should automatically determine this
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 17</b> <b>Critical <u>YES</u></b>	<b>EPIP-AD-19 Section 5.15, IF Adverse Meteorology DOES NOT Exist then recommend to off-site authorities using form EPIPF-AD-07-01, Event Notice- Nuclear Accident Reporting System Form (NARS),” Box 10 to: EVACUATE ALL SECTORS OUT TO <u>2</u> MILES EVACUATE SECTORS <u>K L M N P</u> OUT TO <u>5</u> MILES</b>
<b>Standard:</b>	<b>Determine that Adverse meteorology DOES NOT Exist.</b>
<b>Evaluator Note:</b>	This step is the same critical action in filling out box 10 of EPIPF-AD-07-01, repeated here to show were the examinee gets the information to complete box 10
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

<b>Performance Step: 18</b> <b>Critical: <u>Yes</u></b>	<b>Block 11: ADDITIONAL INFORMATION: <u>IF</u> making a PAR change <u>THEN</u> write NONE PAR CHANGE or applicable information related to the PAR</b>
<b>Standard:</b>	<b>Block 11: ADDITIONAL INFORMATION: (c) 1) NONE PAR CHANGE or applicable information related to the PAR – Correct as long as no incorrect information.</b>
<b>Evaluator Note:</b>	Box 11 <u>IS</u> graded during EP exercises. There must be a description of the event which accurately describes the event and can be understood by recipient(s). Reference DNAP-2605.  Wording does not have to exactly match as long as the EVENT and PAR are accurately described.
<b>Performance:</b>	<b>SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/></b>
<b>Comments:</b>	_____

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>Performance Step: 19</b>	<b>Approval Signature EPIPF-AD-07-01, EVENT NOTICE</b>
<b>Critical: <u>YES</u></b>	<b>Sign, Date, Time, and circle emergency director</b>
<b>Standard:</b>	(c) 1. Sign <b><u>Approval Signature</u></b> blank 2. Write current date and time in <b><u>Date/Time Approved</u></b> blanks 3. Circle <b><u>Emergency Director.</u></b>
<b>Evaluator Note:</b>	The approval signature of the emergency director <b><u>IS</u></b> graded during EP exercises. Reference DNAP-2605
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 20</b>	<b>EPIPF CR-01-01, Section 1.3.D Initial Actions</b>
<b>Critical: <u>Yes</u></b>	<b>A. Direct the Notifier or another to initiate notifications per EPIPF-AD-07, “Emergency Notifications,” using the completed and approved NARS Form.</b>
<b>Time Critical</b>	
<b>Standard:</b>	(c) <b>Give Form EPIPF-AD-07-01 to the notifier and direct to begin notification of State and County within 14 minutes of start of JPM</b>
<b>Evaluator:</b>	Record time form given to notifier _____
<b>Evaluator:</b>	Record time of contact with State or County if required _____
<b>Evaluator Cue:</b>	<b>Acknowledge direction to perform notification. Repeat the NARS form to the examinee if asked to read the form the examinee.</b>
<b>Evaluator Cue:</b>	<b>If the examinee does not complete the NARS form and direct notification within the required time then terminate the JPM by stating this completes the JPM</b>
<b>Performance:</b>	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** When the examinee has directed performance of notifications for the PAR change

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

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

**During the evaluation, the trainee:**

- Performed the task correctly and in accordance with procedure usage and adherence requirements.  Yes  No
- Never put anyone's safety at risk.  Yes  No
- Never put equipment reliability at risk.  Yes  No
- Never violated radiological work practices.  Yes  No
- Demonstrated effective use of event-free human performance tools.  Yes  No

Note: The above information may be used in conjunction with the trainees' performance to determine JPM failure if the trainees' actions would have endangered the health and safety of the public, plant workers, themselves or damage plant equipment even if all critical tasks are met.



SO-119-JP05E  
Attachments Rev B.p

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

SIMULATOR SET UP:

- Reset the simulator to any Full power IC
- Go to RUN
- Enter the codes in the INSTRUCTOR SUMMARY (This can be done manually or with a batch or caep file) *This JPM can be run with another JPM in the simulator*
- Allow the simulator to run until wind direction stabilizes at 77° and wind speed is 15 mph.
- Snap IC if desired

**THIS JPM HAS SECURITY RELATED INFORMATION – WITHHOLD FROM PUBLIC DISCLOSURE IN ACCORDANCE WITH 10CFR2.390**

<b>REV INPUT SUMMARY</b>						
Description	Delay Time	Ramp Time	Event Trigger	Severity Or Value	Final Value	Relative Order
<b>MALFUNCTIONS</b>						
<b>REMOTE FUNCTIONS</b>						
MT101 M0001A Primary Tower – 60M Wind Speed	00:00:00	00:00:00	None	15	15	preload
MT102 M0002A Primary Tower – 60M Wind Dir From	00:00:00	00:00:00	None	56	56	preload
MT103 M0003A Primary Tower – 10M Ambient Temp	00:00:00	00:00:00	None	56	56	preload
MT104 M0004A Primary Tower – Delta Temp	00:00:00	00:00:00	None	1.05	1.05	preload
MT107 M0007A Primary Tower – 10M Sigma	00:00:00	00:00:00	None	3	3	preload
MT108 M0008A Primary Tower – 10M Wind Speed	00:00:00	00:00:00	None	15	15	preload
MT109 M0009A Primary Tower – 10M Wind Dir From	00:00:00	00:00:00	None	56	56	preload
MT121 M0021A Backup Tower – 10M Wind Speed	00:00:00	00:00:00	None	15	15	preload
MT122 M0022A Backup Tower – 10M Wind Dir From	00:00:00	00:00:00	None	56	56	preload
MT123 M0023A Backup Tower – 10M Ambient Sigma	00:00:00	00:00:00	None	3	3	preload
MT124 M0024A Backup Tower – 10M Ambient Temp	00:00:00	00:00:00	None	55	55	preload

Retention: Life of plant insurance policy + 10 years  
Retain in: Training Program File

KPS-JPMSROA5-L-SRO-A-01212011-096

## **TURNOVER SHEET**

### **INITIAL CONDITIONS:**

# **\*THIS IS A DRILL\***

- You are the Shift Manager/Emergency Director
- A General Emergency FG1 was declared 20 minutes ago and notifications were completed 7 minutes ago.
- Current status of the plant:
- SG 'A' is Faulted – SG A PORV 3A has failed OPEN
- SG 'A' is Ruptured – The SG 'A' tube rupture has resulted in ECCS actuation
- A common failure in the Safety Injection Pump's wiring has resulted in the tripping of both Safety Injection Pumps
- Core Exit Thermocouple temperatures are 720°F and rising
- Total elapsed time from the beginning event (starting with the Reactor Trip) has been 32 minutes
- Notifier is still in the Control Room
- As the Shift Manager/Emergency Director in the Control Room you are implementing Emergency Plan Procedures for the given conditions and any additional reports up to and including completion of the NARS form and directing notification if required.

**This is a TIME CRITICAL JPM**

**ATTACHMENT 1**

**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Mike Nichols 01/18/2011  
Validation Personnel /Date

\_\_\_\_\_  
Validation Personnel/Date

\_\_\_\_\_  
Validation Personnel /Date

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Validation Personnel /Date

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Validation Personnel/Date

SO-119-JP05E, Determine PAR Change: Wind Shift, Rev. C

Historical Record:

Rev A.

Original

Rev B.

- Changed name to Par Change for Wind Shift and eliminate change in release status.
- Removed steps for NARS form for change in release status
- Changed initial condition so the initial cue is the STA report
- Updated Task Standard to reflect removal release status portion of the JPM
- Updated Termination Criteria for remove o Change of release status
- Updated Initial Condition Cues to aid in administration
- Changed Steps 10 and 11 to not critical based on the computer automatically filling in the information. Becomes critical if the student does not use the computer.
- Added direction to the administrator to fill in Notification time for the NARS form given to the student as 7 minutes prior to start time of JPM