

**PPL SUSQUEHANNA, LLC**  
**JOB PERFORMANCE MEASURE**  
**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|                            |                                    |                      |                         |   |                       |                            |
|----------------------------|------------------------------------|----------------------|-------------------------|---|-----------------------|----------------------------|
| <u>S/RO</u><br>Appl.<br>To | <u>78.AD.001.101</u><br>JPM Number | <u>0</u><br>Rev. No. | <u>09/26/05</u><br>Date | <u>2.1.18</u><br>NUREG 1123<br>Sys. No. | <u>N/A</u><br>K/A No. | <u>2.9/3.0</u><br>K/A Imp. |
|----------------------------|------------------------------------|----------------------|-------------------------|---|-----------------------|----------------------------|

Task Title: Document a Failed LPRM Detector

|                            |                                  |
|----------------------------|----------------------------------|
| Completed By:              | Validated                        |
| <u>Rich Chin</u><br>Writer | <u>09/26/05</u><br>Date          |
|                            | <u>Instructor/Writer</u><br>Date |

Approval:

|                            |             |
|----------------------------|-------------|
| <u>Nuclear Trng. Supv.</u> | <u>Date</u> |
|----------------------------|-------------|

|                             |  |                          |
|-----------------------------|--|--------------------------|
| <u>Date of Performance:</u> | <u>15/25</u><br>Validation Time (Min.) | <u>Time Taken (Min.)</u> |
|-----------------------------|--|--------------------------|

JPM Performed By:

|               |             |              |             |                            |
|---------------|-------------|--------------|-------------|----------------------------|
| Student Name: | <u>Last</u> | <u>First</u> | <u>M.I.</u> | <u>Employee # / S.S. #</u> |
|---------------|-------------|--------------|-------------|----------------------------|

Performance Evaluation:      (    ) Satisfactory      (    ) Unsatisfactory

|                 |                  |                         |
|-----------------|------------------|-------------------------|
| Evaluator Name: | <u>Signature</u> | <u>Typed or Printed</u> |
|-----------------|------------------|-------------------------|

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
S/RO 78.AD.001.101**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. OI-078-001 LPRM STATUS CONTROL, (Rev. 8)
- B. TS amendment 217

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the requirements of Operational Activity(s):

None

**IV. TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 80% power.
- B. Reactor Engineering has completed their evaluation of a downscale alarm condition for LPRM detector 48-17B. LPRM detector 48-17B is failed
- C. The PCOP has just **NOW** bypassed LPRM detector 48-17B in the lower relay room.
- D. All OPRM channels are INOPERABLE

**V. INITIATING CUE**

Complete all required "hardcopy" documentation in accordance with the appropriate instructions for LPRM detector 48-17B.

**VI. TASK STANDARD**

Zone 4 is identified as not having more than 50% upscale alarms operable, placard place on reactor panel, Unit Supervisor Notified to reference TRO 3.3.9, SROs must additionally identify required TRO actions.

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: S/RO 78.AD.001.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard                                | Eval | Comments |
|------|---|---|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• Ensure the following material is available to support performance of this JPM: <ul style="list-style-type: none"> <li>• A copy of OI-078-001.</li> <li>• Prepare attachments A &amp; B with zone 4 having exactly 50% operable LPRM upscale alarms.</li> <li>• Blank copy of attachment A &amp; B.</li> </ul> </li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Task Conditions and Initiating Cue Sheet.</p> |   |      |          |
| 1    | Obtains a controlled copy of procedure.   | Controlled copy of OI-078-001 obtained. |      |          |
| 2    | Refers to correct section.  | Refers to section 4.                    |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 3    | <p>Determines current LPRM status.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>When the candidate identifies where the current LPRM Upscale Alarm Status Control Log is retained provide the candidate with previously filled-out copy of Attachments A &amp; B.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Allow candidate to use blank attachments from the copy of the procedure provided.</p> | Obtains the Operations Special Log Book in the Unit 1 control room and locates the previously completed copy of Attachment A & B. |      |          |
| 4    | Obtains a blank copy of Attachment A & B.   | Blank copy obtained.  |      |          |
| 5    | Completes new Attachment A.   | Enters 1 for Unit.  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: S/RO 78.AD.001.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p>If candidate elects to verify position of switches in lower relay room, provide the cue that the switches are in the positions indicated on Attachment A (Special log book)</p> | <p>Transfers the previous LPRM data to the new Attachment A.</p> <p>OR</p> <p>Candidate may desire to verify switches in lower relay room.</p> |      |          |
| 6    | Enter a check (✓) in column (2) for LPRM alarms determined inoperable or bypassed for all other reasons.   | Place a checkmark in column 2 adjacent to LPRM detector 48-17B in Zone 4.  |      |          |
| 7    | Consider all LPRM Upscale Alarms with a check in column (1) or (2) of Attachment A as inoperable   | Circles YES for zone 1, 2, 3, 5, 6, 7, 8, and 9.   |      |          |
|      | Determine if ≥50% of LPRM Upscale alarms in each zone are operable.  |  |      |          |
| *8   |  | Circles NO for zone 4.   |      |          |
| 9    | Notify Reactor Engineering of all LPRM upscale alarms determined inoperable.   | N/A<br>Previously noted in JPM cue.  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: S/RO 78.AD.001.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| *10  | Attach placard to 1C651 indicating < required # of LPRM Upscale Alarms.<br><br><b><u>EVALUATOR NOTE:</u></b><br>The placard is required to remain posted until all zones have >50% upscale alarms operable.            | Attaches placard to operating panel 1C651.                          |      |          |
| *11  | Refer to TRO 3.3.9 LPRM, upscale alarm instrumentation   | Notifies the Unit Supervisor to Refer to TRO 3.3.9 LPRM             |      |          |
| 12   | Complete an LPRM vs. APRM/LPRM Group Status Control Log (Attachment B) each time LPRM operability status is changed<br><br>Circle all inoperable LPRM's on LPRM vs. APRM/LPRM Group Status Control Log (Attachment B). | Enters 1 for Unit.  |      |          |
| 13   |  | Transfers the previous LPRM data to the new Attachment B.           |      |          |
| 14   |  | Circles LPRM detector 48-17 for APRM E, under the column 'B' Level. |      |          |
| 15   | Obtains review.  | Submit the completed Attachment A and B to the Unit Supervisor.     |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: S/RO 78.AD.001.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p><b>This completes the JPM for the ROs ONLY</b></p> <p><b><u>EVALUATOR CUE:</u></b></p> <p><b><u>FOR SRO CANDIDATES ONLY</u></b></p> <p>Give the SRO candidate the second cue sheet that addresses the Tech Spec and TRO for the INOPERABLE LPRMs Upscale alarms.</p> |  |      |          |
| 16   | Obtains a copy of the Tech Specs and TRM  | <p>References:</p> <p>TRO 3.3.9</p>  |      |          |
| *17  | Determines required actions   | <p>Determines the following actions are required:</p> <p>TRO 3.3.9 condition H</p> <p>Within 1 hour Post a sign on the reactor panel that less than 50% of the LPRM Upscale alarms are OPERABLE</p> <p style="text-align: center;"><b>AND</b></p> <p>TRO 3.3.9 Condition E</p> <p>Immediately Place the reactor mode switch in the shutdown position</p> |      |          |

\*Critical Step

#Critical Sequence

**PERFORMANCE CHECKLIST**

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Appl. To/JPM No.: S/RO 78.AD.001.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard | Eval | Comments |
|------|---|----------|------|----------|
|      | <b><u>EVALUATOR CUE:</u></b><br><br>This completes the JPM. |          |      |          |

\*Critical Step

#Critical Sequence



### **TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 80% power.
- B. Reactor Engineering has completed their evaluation of a downscale alarm condition for LPRM detector 48-17B. LPRM detector 48-17B is failed
- C. The PCOP has just **NOW** bypassed LPRM detector 48-17B in the lower relay room.
- D. All OPRM channels are INOPERABLE

### **INITIATING CUE**

Complete all required "hardcopy" documentation in accordance with the appropriate instruction for LPRM detector 48-17B.

### **TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 80% power.
- B. Reactor Engineering has completed their evaluation of a downscale alarm condition for LPRM detector 48-17B. LPRM detector 48-17B is failed
- C. The PCOP has just **NOW** bypassed LPRM detector 48-17B in the lower relay room.
- D. All OPRM channels are INOPERABLE

### **INITIATING CUE**

Complete all required "hardcopy" documentation in accordance with the appropriate instruction for LPRM detector 48-17B.

# SRO ONLY

## **TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 80% power.
- B. Reactor Engineering has completed evaluation of a downscale alarm condition for LPRM detector 48-17B.
- C. LPRM detector 48-17B is failed and bypassed.
- D. All OPRM channels are INOPERABLE
- E. It has been determined that < 50% of LPRM Upscale alarms in zone 4 are operable.
- F. The combination of thermal power and core flow is IN Region II of the power to Flow Map.

## **INITIATING CUE**

Determine the required Tech Spec and TRO actions.

# SRO ONLY

## TASK CONDITIONS

- A. Unit 1 is in MODE 1 at 80% power.
- B. Reactor Engineering has completed evaluation of a downscale alarm condition for LPRM detector 48-17B.
- C. LPRM detector 48-17B is failed and bypassed.
- D. All OPRM channels are INOPERABLE
- E. It has been determined that < 50% of LPRM Upscale alarms in zone 4 are operable.
- F. The combination of thermal power and core flow is IN Region II of the power to Flow Map.

## INITIATING CUE

Determine the required Tech Spec and TRO actions.



**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.AD.273.002**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgement of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

NDAP-QA-0312, "CONTROLS OF LCO'S, TRO'S AND SAFETY FUNCTION DETERMINATION PROGRAM"  
(Revision 8)  
Tech Specs

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the requirements of Operational Activity(s):

NONE

**IV. TASK CONDITIONS**

- A. Unit 1 is in Mode 1 at 100% power.
- B. "B" RPS Bus De-energized 30 minutes ago due to a voltage regulator failure in the MG set.
- C. "B" RPS has been transferred to the alternate power supply IAW ON-158-001, LOSS OF RPS attachment B.
- D. At step 9 of ON-158-001, LOSS OF RPS attachment B, a problem was encountered. NONE of the CRM AIR SAMPLE ISO LOOP valves (HS-157110A1, A2, B1, B2) could be OPENED. All other steps of the attachment were completed successfully.
- E. Electrical maintenance was dispatched to determine the problem with the CRM AIR SAMPLE ISO LOOP valves. Electrical maintenance has determined the cause to be a failure of the MDR relay.
- F. AR-146-A02 CONTN RAD DET SYSTEM A TROUBLE alarm is locked in.
- G. AR-146-A05 CONTN RAD DET SYSTEM B TROUBLE alarm is locked in.
- H. No Tech Spec actions, TRO actions or Loss of safety function worksheets are in effect at either Unit.

**V. INITIATING CUE**

Based on these plant conditions, IAW with the appropriate procedure, determine the required Tech Spec/TRM actions, and complete the necessary tracking forms.

**VI. TASK STANDARD**

Entry into LCO 3.4.6 declared with LCO/TRO log and Operations portion of Chemistry/Health Physics LCO/TRO Sample /Survey Log sheet filled-out, and Chemistry notified.

# PERFORMANCE CHECKLIST

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Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Due to the nature of this JPM, the candidate may refer to several procedures before determining CRM A &amp; B are both INOPERABLE and LCO 3.4.6 entry is required. Allow candidate to use the forms from the copy of NDAP-QA-0312 that is provided with this JPM.</p> |  |      |          |
| 1    | Obtain a controlled copy of NDAP-QA-0312, "CONTROLS OF LCO'S, TRO'S AND SAFETY FUNCTION DETERMINATION PROGRAM"  | Controlled copy obtained.  |      |          |
| 2    | Selects the correct section to perform.   | Selects section 6.3  |      |          |
| 3    | Review applicable TS LCO and Bases or TRM TRO and Bases.  | Reviews TS LCO and Bases and TRM TRO and Bases.<br>Determines LCO 3.4.6 is applicable. |      |          |
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Placing Unit 1 in either of the appropriate blocks in the next 2 steps will satisfy the "Critical " portion for BOTH steps.</p>   |  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: 00.AD.273.002

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *4   | In accordance with the applicable TS/TRM, complete a LCO/TRO log sheet (Form NDAP-QA-0312-1) as follows:<br><br>Enter the applicable unit for which the log sheet is being completed. | Fills out a copy of Attachment C of NDAP-QA-0312 (Form NDAP-QA-0312-1)<br><br>Records a <b>1</b> in the space provided to designate Unit 1 |      |          |
| *5   | Enter the unit containing the inoperable equipment.   | Records a <b>1</b> in the space provided to designate Unit 1   |      |          |
| 6    | Enter the system number.  | Records a <b>79</b> in the space provided.   |      |          |
| *7   | Circle or enter whether the Action is an LCO or TRO and enter the specification number.   | Circles or records <b>LCO</b><br><br>Then records <b>3.4.6.</b>  |      |          |
| *8   | Enter the applicable MODES.<br><br><b><u>EVALUATOR NOTE:</u></b><br><br>Candidate may choose to place references in the reference document section, however this is not required.     | Records <b>1,2,3.</b>  |      |          |
| 9    | Enter the reference documents, if applicable. The Reference Documents section may also be used to provide clarifying information for the reason the LCO/TRO is being entered.         | Determines <b>NO</b> reference documents are applicable.   |      |          |

\*Critical Step

#Critical Sequence



# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: 00.AD.273.002

Student Name: \_\_\_\_\_

| Step  | Action  | Standard  | Eval | Comments |
|---|---|---|------|----------|
| *10   | Review/revise all active LOSF worksheets based on the above inoperable equipment.   | Determines from initial conditions that No Tech Spec actions , TRO actions or Loss of safety function worksheets are in affect at either Unit and<br><br>Records <b>N/A</b> in the space provided   |      |          |
| *11   | Determine if LCO 3.0.6 has been applied for any other system on both Units 1 and 2. | Determines from initial conditions that No Tech Spec actions , TRO actions or Loss of safety function worksheets are in affect at either Unit and<br><br>Records an <b>X</b> in the "Is this a Safety Function Determination support system?" NO space provided<br><br><b>AND</b><br><br>Records an <b>X</b> in the "If YES, is TS 3.0.6 to be applied?" NA space provided. |      |          |
| <p><b><u>EVALUATOR NOTE:</u></b></p> <p>The next 4 steps of this JPM will require 2 separate line item entries on Attachment C of NDAP-QA-0312. One for action B.1, and one for B.2.</p> <p>See attached answer key for specifics of this form should be completed.</p> |   |   |      |          |

\*Critical Step

#Critical Sequence

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Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| 12   | Enter the Date and Time that the CONDITION was entered.  | Records <b>B</b> in CONDITION block for both line items<br><br>Records <b>date and time</b> for each of the actions in the space provided.  |      |          |
| *13  | Enter the reason for CONDITION and the appropriate REQUIRED ACTION. The REQUIRED ACTION should be listed by number and include a brief noun description. | Records all of the following<br><br><b>Required Primary Containment Atmospheric Monitoring System INOPERABLE</b><br><br><b>B.1 Analyze grab samples of primary containment atmosphere</b><br><br><b>AND</b><br><br><b>B.2 Restore required Primary Containment Atmospheric Monitoring System to OPERABLE status</b> |      |          |
| *14  | Enter the Date and Time by when the REQUIRED ACTION must be completed.   | In the spaces provided Records:<br><br><b>Once per 12 hours B.1</b><br><br><b>Within 30 days</b> for item B.2   |      |          |
| *15  | Initial that the CONDITION has been entered.   | Records <b>candidate initials</b> in the spaces provided  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 16   | Have another SRO Peer Check the LCO/TRO entry and also initial in the "Entered By" box.   | Asks another SRO to Peer Check the LCO/TRO entry and initial in the "Entered By" box.                                       |      |          |
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p>Role-play the second SRO and inform the candidate that you have Peer Checked the LCO/TRO entry, and they can assume that you have initialed the "Entered By" box.</p>  |   |      |          |
| 17   | <p>If required, additional CONDITION(S) can be entered within the same LCO/TRO as follows:</p> <p>If the REQUIRED ACTION requires a repetitive action (ex; perform action once every 8 hours);</p> <p>COMPLETE Form NDAP-QA-0312-5 "LCO/TRO Repetitive Required Action Completion Sheet" and attach to the LCO/TRO log sheet</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>It is not necessary to initiate a Chemistry/Health Physics LCO/TRO Sample/Survey Log if the LCO is expected to be cleared prior to the first required action/sample. However, caution must be used to ensure the sample/survey is not missed in the event the LCO is not cleared in a timely manner.</p> | <p>Determines:</p> <p>Form NDAP-QA-0312-5 "LCO/TRO Repetitive Required Action Completion Sheet" <b>IS NOT REQUIRED.</b></p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| 18   | If the LCO/TRO Condition requires Chemistry or Health Physics to sample or perform a survey, Shift Supervision shall initiate a Chemistry/Health Physics LCO/TRO Sample/Survey Log (FORM NDAP-QA-0312-3) by: | Determines:<br><br>Chemistry/Health Physics LCO/TRO Sample/Survey Log (FORM NDAP-QA-0312-3)<br><br><b>IS REQUIRED</b>   |      |          |
| *19  | Completing the top section of FORM NDAP-QA-0312-3.   | Places the following information on top section of FORM NDAP-QA-0312-3.<br><br><b>UNIT 1</b><br><br>The LCO/TRO for operation of the<br><b>BOTH Primary Containment Atmospheric Monitoring System INOPERABLE</b><br><br>Commenced at <b>LCO entry time</b><br><b>TS LCO 3.4.6</b><br><br>Action <b>B.1</b><br><br>Sample/Survey within <b>Once per 12 hours</b> |      |          |
| *20  | Notifying Chemistry/Health Physics to pick up the log sheet in the Control Room.<br><br><b><u>EVALUATOR CUE:</u></b><br><br>Role-play Chemistry and acknowledge the report.                                  | Contacts Chemistry to pick up the log sheet in the Control Room.  |      |          |

\*Critical Step

#Critical Sequence

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Student Name: \_\_\_\_\_

| Step | Action  | Standard | Eval | Comments |
|------|---|----------|------|----------|
|      | <b><u>EVALUATOR CUE:</u></b><br>That completes this JPM |          |      |          |

\*Critical Step

#Critical Sequence

# ANSWER KEY DO NOT GIVE TO CANDIDATES

UNIT 1 LCO/TRO LOG SHEET

|                  |                     |                                    |                      |
|------------------|---------------------|------------------------------------|----------------------|
| UNIT<br><b>1</b> | SYSTEM<br><b>79</b> | <b>LCO/TRO</b><br><b>LCO 3.4.6</b> | MODE<br><b>1,2,3</b> |
|------------------|---------------------|------------------------------------|----------------------|

|                     |         |
|---------------------|---------|
| Reference Documents | Chem/HP |
|---------------------|---------|

Review/revise all active LOSF worksheets based on the above inoperable equipment.

Review Complete **N/A**

Is this a Safety Function Determination support system?

YES ☐ NO ☒

If YES, is TS 3.0.6 to be applied?

YES ☐ NO ☐ NA ☒

If YES, perform a LOSF Determination using the Safety Function Determination Work Sheet. If NO, cascade LCO's.

| Compl. Time Extension.?  | CONDITION | LCO/TRO CONDITION Entered    |   |                          |                           | LCO/TRO CONDITION Cleared |            |
|--------------------------|-----------|------------------------------|---|--------------------------|---------------------------|---------------------------|------------|
|                          |           | Date/Time Entered            | REASON AND REQUIRED ACTION  | Completion Date/Time     | Entered By                | Date/Time                 | Cleared By |
| <input type="checkbox"/> | <b>B</b>  | <b>Today's date and time</b> | <b>Required Primary Containment Atmospheric Monitoring System INOPERABLE</b><br><b>B.1 Analyze grab samples of primary containment atmosphere</b><br><br><b>AND</b> | <b>Once per 12 hours</b> | <b>candidate initials</b> |                           |            |
| <input type="checkbox"/> | <b>B</b>  | <b>Today's date and time</b> | <b>B.2 Restore required Primary Containment Atmospheric Monitoring System to OPERABLE status</b>  | <b>Within 30 days</b>    | <b>candidate initials</b> |                           |            |
| <input type="checkbox"/> |           |                              |   |                          |                           |                           |            |
| Reviewed OPS Supv-Nuc:   |           |                              |   | LCO Entered              |                           | LCO Cleared               |            |

# ANSWER KEY DO NOT GIVE TO CANDIDATES

Unit 1

## CHEMISTRY/HEALTH PHYSICS LCO/TRO SAMPLE/SURVEY LOG

The LCO TRO for operation of the **BOTH Primary Containment Atmospheric Monitoring System INOPERABLE**

commenced at **LCO** / **Today** . Chemistry samples/Health Physics surveys shall be taken per:  
**entry**  
**time**

| TS/TR            | ACTION     | SAMPLE/SURVEY WITHIN     | ANALYSIS COMPLETED WITHIN |
|------------------|------------|--------------------------|---------------------------|
| <b>LCO 3.4.6</b> | <b>B.1</b> | <b>Once per 12 hours</b> |                           |
|                  |            |                          |                           |
|                  |            |                          |                           |
|                  |            |                          |                           |

Report chemistry analysis results to Shift Supervision.

\_\_\_\_\_  
Shift Supervision

### HEALTH PHYSICS

The Desk Foreman - Health Physics or the HP Shift Lead Technicians shall notify the HP Duty Foreman immediately following receipt of this log.

### CHEMISTRY

FIRST SAMPLE DUE DATE/TIME

--OR--

FIRST ANALYSIS COMPLETION DUE DATE/TIME

| SAMPLE/SURVEY DATE/TIME | REQUIRED ANALYSIS DUE DATE/TIME | ANALYSIS COMPLETE DATE/TIME | RESULTS | NEXT DUE SAMPLE/SURVEY DATE/TIME | NEXT DUE ANALYSIS DATE/TIME | INIT. |
|-------------------------|---------------------------------|-----------------------------|---------|----------------------------------|-----------------------------|-------|
|                         |                                 |                             |         |                                  |                             |       |
|                         |                                 |                             |         |                                  |                             |       |
|                         |                                 |                             |         |                                  |                             |       |
|                         |                                 |                             |         |                                  |                             |       |

LCO/TRO cleared at \_\_\_\_\_  
Date/Time

By \_\_\_\_\_  
Shift Supervision

Copy sent to Chemistry/HP Foreman.

\_\_\_\_\_  
Technician

COMPLETED FORMS SHALL BE INCLUDED WITH THE LCO/TRO LOG SHEET FOR THE SAMPLING LCO/TRO.

Page 1 of \_\_\_\_\_

## **TASK CONDITIONS**

- A. Unit 1 is in Mode 1 at 100% power.
- B. "B" RPS Bus De-energized 30 minutes ago due to a voltage regulator failure in the MG set.
- C. "B" RPS has been transferred to the alternate power supply IAW ON-158-001, LOSS OF RPS attachment B.
- D. At step 9 of ON-158-001, LOSS OF RPS attachment B, a problem was encountered. NONE of the CRM AIR SAMPLE ISO LOOP valves (HS-157110A1, A2, B1, B2) could be OPENED. All other steps of the attachment were completed successfully.
- E. Electrical maintenance was dispatched to determine the problem with the CRM AIR SAMPLE ISO LOOP valves. Electrical maintenance has determined the cause to be a failure of the MDR relay.
- F. AR-146-A02 CONTN RAD DET SYSTEM A TROUBLE alarm is locked in.
- G. AR-146-A05 CONTN RAD DET SYSTEM B TROUBLE alarm is locked in.
- H. No Tech Spec actions, TRO actions or Loss of safety function worksheets are in effect at either Unit.

## **INITIATING CUE**

Based on these plant conditions, IAW with the appropriate procedure, determine the required Tech Spec/TRM actions, and complete the necessary tracking forms.



## **TASK CONDITIONS**

- A. Unit 1 is in Mode 1 at 100% power.
- B. "B" RPS Bus De-energized 30 minutes ago due to a voltage regulator failure in the MG set.
- C. "B" RPS has been transferred to the alternate power supply IAW ON-158-001, LOSS OF RPS attachment B.
- D. At step 9 of ON-158-001, LOSS OF RPS attachment B, a problem was encountered. NONE of the CRM AIR SAMPLE ISO LOOP valves (HS-157110A1, A2, B1, B2) could be OPENED. All other steps of the attachment were completed successfully.
- E. Electrical maintenance was dispatched to determine the problem with the CRM AIR SAMPLE ISO LOOP valves. Electrical maintenance has determined the cause to be a failure of the MDR relay.
- F. AR-146-A02 CONTN RAD DET SYSTEM A TROUBLE alarm is locked in.
- G. AR-146-A05 CONTN RAD DET SYSTEM B TROUBLE alarm is locked in.
- H. No Tech Spec actions, TRO actions or Loss of safety function worksheets are in effect at either Unit.

## **INITIATING CUE**

Based on these plant conditions, IAW with the appropriate procedure, determine the required Tech Spec/TRM actions, and complete the necessary tracking forms.

**PPL SUSQUEHANNA, LLC**  
**JOB PERFORMANCE MEASURE**  
**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|       |              |      |          |            |         |          |
|-------|--------------|------|----------|------------|---------|----------|
| S/RO  | 45.ON.007101 | 1    | 09/26/05 | 2.1.25     | N/A     | 2.8/3.1  |
| Appl. | JPM Number   | Rev. | Date     | NUREG 1123 | K/A No. | K/A Imp. |
| To    |              | No.  |          | Sys. No.   |         |          |

Task Title: Determine Cause for Reactor Water Level Indication Anomaly/Identify required Tech Spec Actions

Completed By:

Validated:

Rich Chin  
Writer

09/26/05  
Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

Date of Performance:

10/20  
Validation Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

( ) Satisfactory

( ) Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
S/RO 45.ON.007.101**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. ON-145-004, RPV WATER LEVEL ANOMALY (Rev. 8)
- B. Tech Specs

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the requirements of Operational Activity(s):

None

**IV. TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 100% reactor power.
- B. An anomaly exists with RPV water level instrument indication.

**V. INITIATING CUE**

Use the appropriate procedure to address the anomaly.

**VI. TASK STANDARD**

Identifies instrument anomaly is due to Instrument Bus 1 1Y125 breaker 01 being tripped or de-energized, and re-energizes the instruments. SROs additionally, identify the Required Tech Spec Actions.

# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| *1   | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• This JPM must be performed in the simulator.</li> <li>• Establish task conditions as directed on attached setup instructions.</li> <li>• When the candidate is ready to begin <b>JPM</b>, place the simulator to <b>RUN</b>.</li> </ul> | <p>Determines the following level indicators are reading zero:</p> <p>LI-14201B1 on 1C651</p> <p>LI-14201B on 1C601</p> <p>LI-14203B on 1C601</p> |      |          |
|      | <p>Reviews RPV water level instruments indications in the simulator to determine which indicators are affected.</p>   |   |      |          |
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Candidate may reference ON-117-001, LOSS OF INSTRUMENT BUS instead of ON-145-004, RPV WATER LEVEL ANOMALY. As long as all critical steps are accomplished this would be acceptable. However, it may be necessary to ask a follow-up question for the Tech Specs.</p>          |   |      |          |
| 2    | Obtains a controlled copy of ON-145-004.  | Controlled copy obtained.   |      |          |
| 3    | Reviews Symptoms and Observations for applicability.  | Ensures the Symptoms and Observations are applicable.   |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 4 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 4    | Records date and time of event.  | Enter current date and time.   |      |          |
| 5    | Selects the appropriate section and attachment.  | Selects Section 3.5 and Attachment B.  |      |          |
| 6    | <p>Perform following for level instrumentation malfunction:</p> <p>Refer to Attachment B checking following:</p> <p>Instruments with common reference leg condensing chambers or excess flow check valves.</p> | <p>On Attachment B pages 1 and 2 determines the following common reference leg condensing chambers and excess flow check valves are still indicating normal values and are NOT the source of the anomaly:</p> <p>LI-B21 1R605</p> <p>LR-C32 1R608</p> <p>LI-14201A</p> <p>LI-14201A1</p> <p>LI-14203A</p> <p>LI-B21 1R604</p> <p>LI-C23 1R606B</p> <p>LR/PR 14201A</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 5 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 7    | <p>Instruments and indications with common variable leg supplies or excess flow check valves.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>If requested, inform candidate all instrumentation power is selected to its normal source.</p> | <p>On Attachment B pages 1 and 2 determines the following common variable leg condensing chambers and excess flow check valves are still indicating normal values and are NOT the source of the anomaly:</p> <p>LI-B21 1R605<br/>                     LR-C32 1R608<br/>                     LI-14201A<br/>                     LI-14201A1<br/>                     LI-14203A<br/>                     LI-B21 1R604<br/>                     LI-C23 1R606B<br/>                     LR/PR 14201A</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 6 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| *8   | Instruments with common power supplies.   | <p>Determines the following indicators a common power supply:</p> <p>LI-14201B1 on 1C651</p> <p>LI-14201B on 1C601</p> <p>LI-14203B on 1C601</p> <p>Identifies a loss of 1Y125 breaker 01 as the common mode failure.</p> |      |          |
| 9    | Automatic actions and alarms.   | NONE  |      |          |
| 10   | IF level cannot be determined $\geq +13"$ by at least two (2) independent indications, Enter EO 100 102, RPV Control.   | Determines this is N/A since other level indications are available.   |      |          |
| *11  | <p>Comply with TS 3.3.1.1, 3.3.2.2, 3.3.6.1, 3.3.6.2, 3.3.5.1, 3.3.4.2 and 3.3.5.2.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>If necessary, Role-play Unit Supervisor and acknowledge the request.</p> | <p>Recognizes the need to Comply with TS 3.3.1.1, 3.3.2.2, 3.3.6.1, 3.3.6.2, 3.3.5.1, 3.3.4.2 and 3.3.5.2.</p>  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 7 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 12   | IF applicable, Restore power supplies for failed instrumentation.<br><br><b><u>EVALUATOR CUE:</u></b><br><br>Role-play NPO and report 1Y125 breaker 01 is tripped.  | Contacts NPO to check status of 1Y125 breaker 01          |      |          |
| 13   | 13<br><br>Informs Unit Supervisor that 1Y125 breaker 01 is tripped.<br><br><b><u>EVALUATOR CUE:</u></b><br><br>Role-play Unit Supervisor and acknowledge the report And Instruct candidate to attempt one closure of 1Y125 breaker 01 is tripped. | Informs Unit Supervisor that 1Y125 breaker 01 is tripped. |      |          |
| *14  | Contact NPO and instruct NPO to close 1Y125 breaker 01.<br><br><b><u>BOOTH OPERATOR CUE:</u></b><br><br>Remove malfunction on 1Y125 breaker 01.<br><br><b>MRF DB117271 CLOSE</b>  | Contacts NPO and instructs NPO to close 1Y125 breaker 01. |      |          |

\*Critical Step

#Critical Sequence



# PERFORMANCE CHECKLIST

Page 8 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| 15   | <p><b><u>EVALUATOR CUE:</u></b></p> <p>Role-play NPO and report 1Y125 breaker 01 is CLOSED.</p>  | <p>Verifies the following indicators are now reading normal:</p> <p>LI-14201B1 on 1C651</p> <p>LI-14201B on 1C601</p> <p>LI-14203B on 1C601</p> |      |          |
|      | <p>Verifies level instruments are reading NORMAL</p>   |   |      |          |
| 16   | <p><b><u>EVALUATOR CUE:</u></b></p> <p>This completes the JPM for the RO ONLY.</p>   | <p>References:</p> <p>Tech Spec 3.3.3.1</p>   |      |          |
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p><b><u>FOR SRO CANDIDATES ONLY</u></b></p> <p>Give the SRO candidate the second cue sheet that addresses the Tech Spec required actions for the failed level transmitters.</p> <p>Obtains a copy of the Tech Specs</p> |   |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 9 of 9

Appl. To/JPM No.: 45.ON.007.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *17  | <p>Determines required actions</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>This completes the JPM.</p> | <p>Determines the following action is required:</p> <p>Within 30 days restore required channel to operable status.</p> |      |          |

\*Critical Step

#Critical Sequence

# SRO ONLY

## **TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 100% reactor power.
- B. An anomaly exists with RPV water level instrument indication.
- C. It has been determined that extended range level transmitter LT-14203B has lost power.

## **INITIATING CUE**

Determine the required Tech Spec actions.

# SRO ONLY

## **TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 100% reactor power.
- B. An anomaly exists with RPV water level instrument indication.
- C. It has been determined that extended range level transmitter LT-14203B has lost power.

## **INITIATING CUE**

Determine the required Tech Spec actions.

**TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 100% reactor power.
- B. An anomaly exists in RPV water level instrument indication.

**INITIATING CUE**

Use the appropriate procedure to address the anomaly.

**TASK CONDITIONS**

- A. Unit 1 is in MODE 1 at 100% reactor power.
- B. An anomaly exists in RPV water level instrument indication.

**INITIATING CUE**

Use the appropriate procedure to address the anomaly.

## APPROVAL AND ADMINISTRATIVE DATA SHEET

**Task Title:** Determine Trip Inputs to Zone 3 Iso Signals Lockout Relay XY07553A Using Controlled Electrical Prints

|           |          |                   |      |
|-----------|----------|-------------------|------|
| Rich Chin | 09/26/05 |                   |      |
| Writer    | Date     | Instructor/Writer | Date |

Nuclear Trng. Supv. Date

JPM Performed By:

Performance Evaluation: ( ) Satisfactory ( ) Unsatisfactory

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
S/RO 00.AD.269.101**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. E 201 sheet 1 (Rev. 27)
- B. E 184 sheet 1 (Rev. 19)
- C. E 184 sheet 3 (Rev. 17)

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the requirements of Operational Activity(s):

None

**IV. TASK CONDITIONS**

- A. Electrical maintenance is preparing to replace the Zone 3 Iso Signals Lockout Relay XY07553A on panel 0C681.

**V. INITIATING CUE**

Your supervisor asks you to use the controlled electrical prints to identify all of the trip input signals to this relay, and report your results to back to your supervisor.

**VI. TASK STANDARD**

All of the trip input signals to Zone 3 Iso Signals Lockout Relay XY07553A are identified. SROs must additionally identify the required Tech Spec actions for an inoperable input.



# PERFORMANCE CHECKLIST

Page 3 of 7

Appl. To/JPM No.: S/RO 00.AD.269.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
|      | <p><b><u>EVALUATOR NOTE</u></b></p> <p>Candidate may use any number of different mediums to obtain the controlled copy of the electrical drawings. These would all be acceptable.</p>  |   |      |          |
| 1.   | Candidate obtains the controlled copy of the electrical print.   | References the electrical print index, OR the operating manuals and determine the appropriate print is E 201 sheet 1. |      |          |
| 2.   | Locates relay XY07553A on print E 201 sheet 1.   | Locates relay XY07553A at grid location C6.   |      |          |
|      | <p><b><u>EVALUATOR NOTE</u></b></p> <p>The following steps 3 – 9 may be done in any order. Candidate may also elect not to report result back to supervisor until they have completed the task. This JPM is written with a report back after each determination as a convenience to the evaluator.</p> |   |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

2005 NRC Exam Rev. 1

# PERFORMANCE CHECKLIST

Page 4 of 7

Appl. To/JPM No.: S/RO 00.AD.269.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| *3   | Candidate determines Unit 1 High radiation inputs a trip signal to relay XY07553A. | <p>Determines that High radiation from the following Unit 1 locations will input a trip signal into relay XY07553A [Grid location B7]</p> <ul style="list-style-type: none"> <li>• Refuel floor exhaust</li> <li>• Refuel floor wall exhaust</li> <li>• Railroad access shaft exhaust</li> </ul> <p>AND</p> <p>Reports this to the supervisor</p> |      |          |
| *4   | Candidate determines Unit 2 High radiation inputs a trip signal to relay XY07553A. | <p>Determines that High radiation from the following Unit 2 locations will input a trip signal into relay XY07553A [Grid location B8]</p> <ul style="list-style-type: none"> <li>• Refuel floor exhaust</li> <li>• Refuel floor wall exhaust</li> </ul> <p>AND</p> <p>Reports this to the supervisor</p>  |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

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# PERFORMANCE CHECKLIST

Page 5 of 7

Appl. To/JPM No.: S/RO 00.AD.269.101

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| 5    | Determines the need to transition to another electrical drawing.                                | Determines the other 2 inputs to trip relay XY07553A are on drawings 184 sheet 1 and 3 by observing the notes  |      |          |
| 6    | Candidate obtains the controlled copy of the electrical print E 184 sheet 1.                    | Obtains the controlled copy of the electrical print E 184 sheet 1.   |      |          |
| *7   | Candidate determines Unit 1 Div 1 LOCA isolation signal inputs a trip signal to relay XY07553A. | <p>Determines Unit 1 Div 1 LOCA isolation signal inputs a trip signal to relay XY07553A and this signal is generated by :</p> <ul style="list-style-type: none"> <li>• Manual isolation</li> <li>• Lo-Lo water reactor level (trip2)</li> <li>• Hi drywell pressure</li> <li>• Switch in "TEST" mode</li> </ul> <p>AND</p> <p>Reports this to the supervisor</p> |      |          |
| 8    | Candidate obtains the controlled copy of the electrical print E 184 sheet 3.                    | Obtains the controlled copy of the electrical print E 184 sheet 3.   |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

2005 NRC Exam Rev. 1

# PERFORMANCE CHECKLIST

Page 6 of 7

Appl. To/JPM No.: S/RO 00.AD.269.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| *9   | Candidate determines Unit 2 Div 1 LOCA isolation signal inputs a trip signal to relay XY07553A.  | <p>Determines Unit 2 Div 1 LOCA isolation signal inputs a trip signal to relay XY07553A and this signal is generated by :</p> <ul style="list-style-type: none"> <li>• Manual isolation</li> <li>• RPV low level (trip 2)</li> <li>• Hi drywell pressure</li> <li>• Switch in "TEST" mode</li> </ul> <p>AND</p> <p>Reports this to the supervisor</p> |      |          |
| 10   | <p>Candidate determines there are no more inputs to relay XY07553A</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>This completes the JPM for the ROs ONLY.</p> | <p>Determines there are no more inputs to relay XY07553A, and reports this to the supervisor.</p>   |      |          |

# PERFORMANCE CHECKLIST

Page 7 of 7

Appl. To/JPM No.: S/RO 00.AD.269.101

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p><b><u>FOR SRO CANDIDATES ONLY</u></b></p> <p>Give the SRO candidate the second cue sheet that addresses the Tech Spec LCO for the INOPERABLE relay.</p> |   |      |          |
| 11   | Obtains a copy of the Tech Specs   | References Tech Spec 3.3.6.2  |      |          |
| *12  | Determines required actions for Tech Spec 3.3.6.2  | <p>Determines the following actions will be required:</p> <p>Within 24 hours place the following channel in TRIP:</p> <p>Unit 1 Refuel floor high exhaust duct radiation-high</p> |      |          |
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p>This completes the JPM</p>  |   |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

2005 NRC Exam Rev. 1

# SRO ONLY

## **TASK CONDITIONS**

Unit 1 is in Mode 1

Unit 2 is in Mode 4 with:

**NO** Core alterations taking place and

**NO** Irradiated fuel movements taking place and

**NO** activities with the potential for draining the reactor vessel taking place.

- A. Electrical maintenance has determined the Unit 1 Refuel Floor High Exhaust Duct Radiation Monitor is INOPERABLE.

## **INITIATING CUE**

What Technical Specifications action(s), including time limits, is/are required as a result of this determination?

# SRO ONLY

## **TASK CONDITIONS**

Unit 1 is in Mode 1

Unit 2 is in Mode 4 with:

**NO** Core alterations taking place and

**NO** Irradiated fuel movements taking place and

**NO** activities with the potential for draining the reactor vessel taking place.

- A. Electrical maintenance has determined the Unit 1 Refuel Floor High Exhaust Duct Radiation Monitor is INOPERABLE.

## **INITIATING CUE**

What Technical Specifications action(s), including time limits, is/are required as a result of this determination?

## **TASK CONDITIONS**

- A. Electrical maintenance is preparing to replace the Zone 3 Iso Signals Lockout Relay XY07553A on panel 0C681.

## **INITIATING CUE**

Your supervisor asks you to use the controlled electrical prints to identify all of the trip input signals to this relay, and report your results to back to your supervisor.



## **TASK CONDITIONS**

- A. Electrical maintenance is preparing to replace the Zone 3 Iso Signals Lockout Relay XY07553A on panel 0C681.

## **INITIATING CUE**

Your supervisor asks you to use the controlled electrical prints to identify all of the trip input signals to this relay, and report your results to back to your supervisor.

|       |               |      |         |            |         |          |
|-------|---------------|------|---------|------------|---------|----------|
| SRO   | 69.OP.044.051 | 1    | 9/27/05 | 2.3.6      | N/A     | 3.1      |
| Appl. | JPM Number    | Rev. | Date    | NUREG 1123 | K/A No. | K/A Imp. |
| To    |               | No.  |         | Sys. No.   |         |          |

Date \_\_\_\_\_

Approval:

Date \_\_\_\_\_

Time Taken (Min.)

JPM Performed By:

Employee # / S.S. #

Performance Evaluation:      (      )    Satisfactory                      (      )    Unsatisfactory

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 69.OP.044.051**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

OP-069-050, Release of Liquid Radioactive Waste (Revision 31)

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the requirements of Operational Activity(s):

NONE

**IV. TASK CONDITIONS**

- A. Both Units are at 100% power, all systems in normal alignment.
- B. Total Site Blowdown Flow Transmitter FIT-01596 is out of service.
- C. A Radioactive Liquid Release Permit is being prepared for Laundry Drain Sample Tank OT-312.
- D. OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" has been completed through step 2.1.7
- E. Background reading for LIQUID RADWASTE RADIATION MONITOR [RITS-06433] is 3.10E3 CPM

**V. INITIATING CUE**

Verify completeness and accuracy of the permit and Independently verify Liquid Radwaste radiation monitor setup IAW OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" step 2.1.8 and sign the appropriate block on the form.

**VI. TASK STANDARD**

Identifies INCORRECT settings for Actual High Rad setpoint and Actual Alert Rad setpoint.

# PERFORMANCE CHECKLIST

Page 3 of 6

Appl. To/JPM No.: 69.OP.044.051

Student Name: \_\_\_\_\_

| Step | Action  | Standard                  | Eval | Comments |
|------|---|---------------------------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• Provide the candidate with a filled out copy of OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" completed through step 2.1.8. Insure High Rad setpoint calculation (in step 2.1.6.n) AND ACTUAL High Rad setpoint (in step 2.1.7 Position 0) are filled out with the MATH errors specified in steps 3 and 4 of this JPM. Student may use OP-069-050, Release of Liquid Radioactive Waste for guidance, however no marks should be made on that copy.</li> <li>• Provide the candidate with a filled out OP-069-050, Release of Liquid Radioactive Waste Attachment F.</li> <li>• Provide the candidate with a blank OP-069-050, Release of Liquid Radioactive Waste Attachment G.</li> <li>• Provide the candidate with a filled out OP-069-050, Release of Liquid Radioactive Waste Attachment H.</li> <li>• A complete Release permit for Laundry Drain Sample Tank OT-312 will consist of Attachments A, F, G, and H.</li> </ul> |                           |      |          |
| 1    | Obtain a controlled copy of OP-069-050, Release of Liquid Radioactive Waste   | Controlled copy obtained. |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: 69.OP.044.051

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| 2    | <p>Selects the correct section to perform.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Due to the nature of this JPM, the candidate may elect to perform the calculations FIRST before proceeding to Radwaste to Verify the proper setpoints. This is acceptable.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>If candidate indicates that he/she would proceed to Radwaste to Verify the proper setpoints, provide the candidate with the necessary cues from the attached OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" for items 2.1.5.g, 2.1.6.f, 2.1.6.k, 2.1.6.l</p> | <p>Selects section step 2.1.8 which requires review of previously completed steps 2.1.5.g through 2.1.7 of OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit"</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: 69.OP.044.051

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *3   | Verifies High Rad setpoint  | Performs the following calculation:<br>$7.0E4 + 3.1E3 = 7.31E4$ and compares this to the number in block 2.1.6.n (1.1E5)<br><br>AND<br><b>Determines there is a math error</b>     |      |          |
| *4   | Verifies Alert Rad setpoint   | Performs the following calculation:<br>$5.6E4 + 3.1E3 = 5.91E4$ and compares this to the number in block 3.1.6.o (8.7E5)<br><br>AND<br><b>Determines there is a math error</b>     |      |          |
| *5   | Verifies Liquid Radwaste Radiation Monitor Setpoint inputs for Function Switch position 0 | Checks required setpoint and actual setpoint for High Rad setpoint.<br><br>Determines<br><b>Setpoints have been incorrectly set to the setpoints determined by the math error.</b> |      |          |

\*Critical Step

#Critical Sequence

## PERFORMANCE CHECKLIST

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Appl. To/JPM No.: 69.OP.044.051

Student Name: \_\_\_\_\_

[illegible]

**\*Critical Step**

### #Critical Sequence

## **TASK CONDITIONS**

- A. Both Units are at 100% power, all systems in normal alignment.
- B. Total Site Blowdown Flow Transmitter FIT-01596 is out of service.
- C. A Radioactive Liquid Release Permit is being prepared for Laundry Drain Sample Tank OT-312.
- D. OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" has been completed through step 2.1.7
- E. Background reading for LIQUID RADWASTE RADIATION MONITOR [RITS-06433] is 3.10E3 CPM

## **INITIATING CUE**

Verify completeness and accuracy of the permit and Independently verify Liquid Radwaste radiation monitor setup IAW OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" step 2.1.8 and sign the appropriate block on the form.



## **TASK CONDITIONS**

- A. Both Units are at 100% power, all systems in normal alignment.
- B. Total Site Blowdown Flow Transmitter FIT-01596 is out of service.
- C. A Radioactive Liquid Release Permit is being prepared for Laundry Drain Sample Tank OT-312.
- D. OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" has been completed through step 2.1.7
- E. Background reading for LIQUID RADWASTE RADIATION MONITOR [RITS-06433] is 3.10E3 CPM

## **INITIATING CUE**

Verify completeness and accuracy of the permit and Independently verify Liquid Radwaste radiation monitor setup IAW OP-069-050, Release of Liquid Radioactive Waste Attachment A "Laundry Drain Sample Tank OT-312 Radioactive Liquid Release Permit" step 2.1.8 and sign the appropriate block on the form.

PPL SUSQUEHANNA, LLC

JOB PERFORMANCE MEASURE

APPROVAL AND ADMINISTRATIVE DATA SHEET

|             |               |          |         |                        |         |          |
|-------------|---------------|----------|---------|------------------------|---------|----------|
| RO          | 00.EP.004.002 | 0        | 9/27/05 | 2.4.43                 | N/A     | 2.8      |
| Appl.<br>To | JPM Number    | Rev. No. | Date    | NUREG 1123<br>Sys. No. | K/A No. | K/A Imp. |

Task Title: Control Room Communicator Emergency Notification

Completed By:

Validated:

Rich Chin

9/27/05

Writer

Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

Date of Performance:

**Time Critical 15 Minutes**

Validated Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

( )

Satisfactory

( )

Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
RO 00.EP.004.002**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100 EMERGENCY DIRECTOR, CONTROL ROOM: Emergency-Plan-Position Specific Instruction (Rev. 22)
- B. EP-PS-126, EMERGENCY PLAN COMMUNICATOR: Emergency Plan-Position Specific Instruction (Rev. 23)
- C. EP-TP-003, COMMUNICATION PROCESS (Rev. 0)

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

An Alert has been declared due to sustained high winds greater than 80 mph resulting in visible damage to the ESSW pump house. (OA3)

**V. INITIATING CUE**

You have been assigned as the Control Room Communicator. Transmit initial information about the Emergency Condition to required organizations, IAW the appropriate procedure.

**VI. TASK STANDARD**

Identify the ENR form is incomplete; Contact the offsite agencies within 15 minutes from initiation of the ENR form; Communicate the Emergency Classification, Unit, declaration Time and Date to the offsite agencies.

# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• This is a time critical JPM.</li> <li>• Ensure a copy of EP-PS-100, EP-TP-003, and EP-PS-126 are available to support performance of this JPM.</li> <li>• Have current, filled-out copy of ENR Form available, <b>with Line 4 BLANK</b></li> <li>• If performing in the simulator, place a yellow sticky on each of the 2 communicator phones with the following call-back number:<br/><br/><b>570-759-4902</b></li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Task Conditions and Initiating Cue Sheet.</p> <p>Role play as Control Room ED and give student filled-out ENR Form.</p> |          |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *1   | <p>Obtain and review Event Notification Report (ENR) form with the Shift Manager/ED.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>Role play as Control Room ED and Place OA3 on line 4 of the ENR Form.</p> <p>Return completed ENR form to the candidate.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>After the ENR has been corrected and returned to the candidate, the Time Critical Portion of the JPM begins.</p> <p>Record Start Time _____</p> | <p>Reviews ENR form to verify Lines 1, 3, 4, 5, 6, and 7 are all filled out.</p> <p>Determines:</p> <p><b>Line 4 is NOT filled out</b></p> <p>Reports to the ED that line 4 MUST be filled out</p> |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

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# PERFORMANCE CHECKLIST

Page 5 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| *2   | <p><b>NOTE:</b></p> <p>If the MOC does not answer, do not wait. Transmit the ENR form information to the emergency agencies.</p> <p><b>NOTE:</b></p> <p>Do not communicate the control number to offsite agencies. This block is gray shaded on the ENR form.</p>  | <p>Dials "191" on the purple colored button</p> <p>Verifies the following agencies are on the line:</p> <p>(1) Penna. Emergency Management Agency</p> <p>(2) Columbia County EMA</p> <p>(3) Luzerne County EMA</p> <p>Media Operations Center</p> |      |          |
|      | <p>Within 15 minutes of declaration, using the purple colored phone button, dial "191" to transmit the ENR form to the following:<br/>(Dialing 191 will simultaneously connect the listed agencies in a conference call.)</p> <p><b><u>EVALUATOR/BOOTH CUE:</u></b></p> <p>Role-play the receiving agencies and confirm each agency is on the line and you are "Ready to Copy"</p> |   |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 6 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 3    | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After contact with the offsite agencies has been confirmed, the Time Critical Portion of the JPM ends.</p> <p>Record stop Time _____</p> <p><b>NOTE:</b></p> <p><b>When you communicate your phone number to the offsite agencies, the prefix for 4XXX numbers is (570) 759. (The 191 call originates from a 4XXX number.)</b></p> | <p>Communicates the following for line1 Call status:</p> <p><b>This is a Drill</b></p> |      |          |
|      | Communicate ENR Form   |  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 7 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 4    |   | <p>Communicates the following for line 2:</p> <p>This is: <b>Candidate's Name</b> at Susquehanna Steam Electric Station.</p> <p>My telephone number is: <b>570-759-4902</b></p> <p>Notification time is: <b>Current Time</b></p>  |      |          |
| *5   | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Initial Declaration is not critical</p> | <p>Communicates the following for line 3:</p> <p>EMERGENCY CLASSIFICATION:</p> <p><b>ALERT</b></p> <p>UNIT:</p> <p><b>ONE and TWO</b></p> <p>Declaration Time:</p> <p><b>5 MINUTES AGO</b></p> <p>DATE:</p> <p><b>TODAY'S DATE</b></p> <p>THIS REPRESENTS A/AN:</p> <p><b>INITIAL DECLARATION</b></p> |      |          |

\*Critical Step

#Critical Sequence



# PERFORMANCE CHECKLIST

Page 8 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action | Standard   | Eval | Comments |
|------|--------|--|------|----------|
| *6   |        | <p>Communicates the following for line 4:</p> <p>The Classification Designation is:</p> <p><b>OA3</b></p> <p>BRIEF NON-TECHNICAL DESCRIPTION OF THE EVENT:</p> <p><b>OA3</b></p> |      |          |
| 7    |        | <p>Communicates the following for line 5:</p> <p>THERE IS:</p> <p><b>NO</b></p> <p>NON-ROUTINE RADIOLOGICAL RELEASE IN PROGRESS</p>  |      |          |
| 8    |        | <p>Communicates the following for line 6:</p> <p>WIND DIRECTION IS FROM:</p> <p><b>21°</b></p> <p>WIND SPEED IS:</p> <p><b>85 mph</b></p>  |      |          |
| 9    |        | <p>Communicates the following for line 7:</p> <p><b>THIS IS A DRILL</b></p>  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 9 of 9

Appl. To/JPM No.: RO 00.EP.004.002

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
| *    | <b><u>EVALUATOR/BOOTH CUE:</u></b><br><br>Candidate may choose to have one of the offsite agencies "REPEAT" back the communicated information. If necessary, role-play the offsite agency and "Repeat" back the information. |          |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br><br>This completes the JPM   |          |      |          |
|      | <b><u>EVALUATOR NOTE:</u></b><br><br>In order for the candidate to pass the Time Critical element of this JPM, they must complete step 2 of this JPM within 15 minutes.  |          |      |          |

\*Critical Step

#Critical Sequence

**TASK CONDITIONS**

An Alert has been declared due to sustained high winds greater than 80 mph resulting in visible damage to the ESSW pump house. (OA3)

**INITIATING CUE**

You have been assigned as the Control Room Communicator. Transmit initial information about the Emergency Condition to required organizations, IAW the appropriate procedure.

**TASK CONDITIONS**

An Alert has been declared due to sustained high winds greater than 80 mph resulting in visible damage to the ESSW pump house. (OA3)

**INITIATING CUE**

You have been assigned as the Control Room Communicator. Transmit initial information about the Emergency Condition to required organizations, IAW the appropriate procedure.

**PPL SUSQUEHANNA, LLC**

**JOB PERFORMANCE MEASURE**

**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|            |                      |          |                |               |            |            |
|------------|----------------------|----------|----------------|---------------|------------|------------|
| <u>SRO</u> | <u>00.EP.001.304</u> | <u>0</u> | <u>9/27/05</u> | <u>2.4.41</u> | <u>N/A</u> | <u>4.0</u> |
| Appl.      | JPM Number           | Rev. No. | Date           | NUREG 1123    | K/A No.    | K/A Imp.   |
| To         |                      |          |                | Sys. No.      |            |            |

Task Title: Perform Emergency Plan Classification (Scenario ILO-304) and Complete the ENR form

Completed By:

Validated:

Rich Chin

9/27/05

Writer

Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

|                             |  |                          |
|-----------------------------|--|--------------------------|
|                             | <b><u>Time Critical 15 Minutes</u></b> |                          |
| <u>Date of Performance:</u> | <u>Validated Time (Min.)</u>           | <u>Time Taken (Min.)</u> |

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance

( )

Satisfactory

( )

Unsatisfactory

Evaluation:

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.EP.001.304**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100, EMERGENCY DIRECTOR CONTROL ROOM, REV. 18
- B. ILO-304, SIMULATOR EVALUATION SCENARIO
- C. EP-PS-100-A
- D. EP-PS-100-C
- E. EP-PS-100-9

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario. Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

**V. INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**VI. TASK STANDARD**

Emergency classification of Alert Emergency declared within 15 minutes.

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• This JPM must be performed in the simulator following completion of the scenario ILO-304 as Unit Supervisor.</li> <li>• This is a time critical JPM.</li> <li>• Ensure a copy of EP-PS-100 is available to support performance of this JPM.</li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Initiating Cue Sheet.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After the candidate reviews the Task Conditions / Initiating Cue Sheet:</p> <ul style="list-style-type: none"> <li>• Ask if the candidate is ready to begin the JPM.</li> <li>• When the candidate is ready to begin the JPM inform the candidate that this is a Time Critical JPM.</li> </ul> <p>Record Start Time _____</p> |          |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action   | Standard  | Eval | Comments |
|------|--|---|------|----------|
| 1    | Obtains a copy of EP-PS-100.   | Controlled copy obtained.   |      |          |
| 2    | Identifies appropriate Tab   | Determines Tab A is appropriate Tab to classify the event.  |      |          |
| 3    | <p>Evaluates information.</p> <p><b><u>EVALUATOR CUE:</u></b></p> <p>Assistance may be necessary for some specific scenario data or sequence of events. Use your judgment on acceptable levels of cueing based on candidate's request.</p> | Identifies from participation as The Unit Supervisor, that an RCS leak > 50 gpm has occurred, and a momentary ATWS. |      |          |

\*Critical Step

#Critical Sequence



# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| *4   | Choose appropriate emergency classification level.               | <p>FA1</p> <p>Any loss or potential loss of either the Fuel clad or RCS</p> <p><b>OR</b></p> <p>MA3</p> <p>RPS setpoint exceeded and RPS automatic scram did not reduce reactor power to &lt; 5%</p> <p><b>AND</b></p> <p>ARI initiated to reduce power below 5%</p> |      |          |
| 5    | Record Time of Alert<br>Emergency declaration _____              |  |      |          |
| 6    | Determines appropriate procedure section for the classification. | <p>Determines TAB C Manage the Alert</p> <p>Emergency is the appropriate TAB.</p>  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 7    | Document and communicate the Emergency Classification.          | <p>Announces to Control Room Personnel:<br/>I am assuming duties of the Emergency Director.<br/>Alert Emergency Classification declared based on FA1<br/>Any loss or potential loss of either the Fuel clad or RCS</p> <p><b>OR</b></p> <p>MA3<br/>RPS setpoint exceeded and RPS automatic scram did not reduce reactor power to &lt; 5%</p> <p><b>AND</b></p> <p>ARI initiated to reduce power below 5%<br/>Time and Date of Classification.</p> |      |          |
| 8    | If not performed earlier appoint an Emergency Plan Communicator | Appoints an Emergency Plan Communicator and instruct him/her to immediately perform EP-PS-126 E Plan Communicator.  |      |          |
| 9    | If not performed earlier, appoint an NRC communicator.          | Appoints an NRC Communicator and instruct him/her to perform EP-PS-135 NRC Communicator   |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 10   | Generate and approve an ENR form to be transmitted by the Emergency Plan Communicator.   | Refers to ENR Form under Tab 9.  |      |          |
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p>Inform the candidate that the Control # in the next step will be CR-ILO-304</p>   |  |      |          |
| 11   | Fill out and approve the Emergency Notification Report Form.   | <p>Fills out and approves the Emergency Notification Report Form as follows:</p> <p>Control # <b>CR-ILO-304</b></p> <p>LINE 1.</p> <p>Call Status:</p> <p><b>Places checkmark in This is a drill box</b></p> |      |          |
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>The communicator will fill out the communicator name, callback telephone number, and time notification is initiated. (Line 2 of the Emergency Notification Report Form).</p> |  |      |          |

\*Critical Step

#Critical Sequence

## PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *12  | <p>Completes line 3</p> <p><b>EVALUATOR NOTE:</b></p> <p>Initial Declaration is not critical</p><br><br><p><b>EVALUATOR NOTE:</b></p><br><br><p>FA1 or MA3 alone is sufficient for the Brief Non-Technical Description for the initial notification.</p> <p>Candidate may paraphrase this description</p> | <p>LINE 3.</p> <p>Emergency Classification:</p> <p><b>Places checkmark in Alert Emergency box</b></p> <p><b>Places checkmark in Unit one box</b></p> <p>Records the <b>Declaration time and date.</b></p> <p>Places a checkmark in <b>this represents A/AN initial declaration box</b> in classification status.</p> |      |          |
| *13  | <p>Completes line 4</p>   | <p>LINE 4.</p> <p>The Emergency action level (EAL) number is:</p> <p>Records EAL <b>FA1 OR MA3</b></p><br><p>Brief non –technical description of the event:</p> <p>Records <b>FA1 OR MA3</b></p>   |      |          |

**\*Critical Step**

### #Critical Sequence

# PERFORMANCE CHECKLIST

Page 9 of 10

Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step  | Action  | Standard  | Eval | Comments |
|---|---|---|------|----------|
| *14   | Completes line 5                                | LINE 5.<br><b>Places a checkmark in the No non-routine radiological release box</b>   |      |          |
| 15  | Completes line 6                                | LINE 6<br>Records Wind Direction is from: <b>10°</b><br>Wind Speed is: <b>5 mph</b>   |      |          |
| 16  | Completes line 7                                | LINE 7.<br>Conclusion:<br><b>Places a checkmark in this is a drill box.</b>   |      |          |
| *17   | Approves the Emergency Notification Report Form | Records the following on space provided:<br>Approved: - <b>His/Her name</b><br>Time: - <b>Current time</b><br>Date: - <b>Current Date</b> |      |          |
| <b><u>EVALUATOR NOTE:</u></b><br>Candidate may review the filled out ENR form with the E Plan Communicator. |   |   |      |          |

\*Critical Step                      #Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

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# PERFORMANCE CHECKLIST

Page 10 of 10

Appl. To/JPM No.: SRO 00.EP.001.304

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| 18   | <p>Give the approved ENR form to the E Plan Communicator.</p> <p><b><u>EVALUATOR CUE:</u></b><br/>If necessary, Role-play the communicator and accept the filled out form.</p> <p><b><u>EVALUATOR CUE:</u></b><br/>Inform the candidate the JPM is complete.</p> <p><b><u>EVALUATOR NOTE:</u></b><br/>The total time from the JPM start to step 5 of the JPM must be <math>\leq 15</math> minutes in order for the time critical portion of the JPM to be satisfactory.</p> | Provides the filled out ENR form to the E Plan Communicator. |      |          |

\*Critical Step

#Critical Sequence

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.



**PPL SUSQUEHANNA, LLC**

**JOB PERFORMANCE MEASURE**

**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|            |                      |          |                |               |            |            |
|------------|----------------------|----------|----------------|---------------|------------|------------|
| <u>SRO</u> | <u>00.EP.001.305</u> | <u>0</u> | <u>9/27/05</u> | <u>2.4.41</u> | <u>N/A</u> | <u>4.0</u> |
| Appl.      | JPM Number           | Rev. No. | Date           | NUREG 1123    | K/A No.    | K/A Imp.   |
| To         |                      |          |                | Sys. No.      |            |            |

Task Title: Perform Emergency Plan Classification (Scenario ILO-305) and Complete the ENR form

Completed By:

Validated:

Rich Chin

9/27/05

Writer

Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

**Time Critical 15 Minutes**

Date of Performance:

Validated Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

( ) Satisfactory

( ) Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.EP.001.305**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100, EMERGENCY DIRECTOR CONTROL ROOM, REV. 18
- B. ILO-305, SIMULATOR EVALUATION SCENARIO
- C. EP-PS-100-A
- D. EP-PS-100-D
- E. EP-PS-100-9

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario. Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

**V. INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**VI. TASK STANDARD**

Emergency classification of Site Area Emergency declared within 15 minutes.

# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>This JPM must be performed in the simulator following completion of the scenario ILO-305 as Unit Supervisor.</li> <li>This is a time critical JPM.</li> <li>Ensure a copy of EP-PS-100 is available to support performance of this JPM.</li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Initiating Cue Sheet.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After the candidate reviews the Task Conditions / Initiating Cue Sheet:</p> <ul style="list-style-type: none"> <li>Ask if the candidate is ready to begin the JPM.</li> <li>When the candidate is ready to begin the JPM inform the candidate that this is a Time Critical JPM.</li> </ul> <p>Record Start Time _____</p> |          |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 4 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 1    | Obtains a copy of EP-PS-100.  | Controlled copy obtained.   |      |          |
| 2    | Identifies appropriate Tab  | Determines Tab A is appropriate Tab to classify the event.  |      |          |
| 3    | Evaluates information.  | Identifies from participation as The Unit Supervisor, that 2 Reactor Building Areas exceeded Max Safe Radiation levels. |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Assistance may be necessary for some specific scenario data or sequence of events. Use your judgment on acceptable levels of cueing based on candidate's request. |   |      |          |
| *4   | Choose appropriate emergency classification level.  | FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers   |      |          |
| 5    | Record Time of Site Area<br>Emergency declaration _____   |   |      |          |
| 6    | Determines appropriate procedure section for the classification.  | Determines TAB D Manage the Site Area<br>Emergency is the appropriate TAB.  |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 5 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 7    | Document and communicate the Emergency Classification.  | Announces to Control Room Personnel:<br>I am assuming duties of the Emergency Director.<br>Site Area Emergency Classification declared based on FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers<br>Time and Date of Classification. |      |          |
| 8    | If not performed earlier appoint an Emergency Plan Communicator   | Appoints an Emergency Plan Communicator and instruct him/her to immediately perform EP-PS-126 E Plan Communicator.  |      |          |
| 9    | If not performed earlier, appoint an NRC communicator.  | Appoints an NRC Communicator and instruct him/her to perform EP-PS-135 NRC Communicator   |      |          |
| 10   | Generate and approve an ENR form to be transmitted by the Emergency Plan Communicator.                          | Refers to ENR Form under Tab 9.   |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br><br>Inform the candidate that the Control # in the next step will be CR-ILO-305 |   |      |          |

\*Critical Step                      #Critical Sequence

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# PERFORMANCE CHECKLIST

Page 6 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 11   | <p>Fill out and approve the Emergency Notification Report Form.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>The communicator will fill out the communicator name, callback telephone number, and time notification is initiated. (Line 2 of the Emergency Notification Report Form).</p> | <p>Fills out and approves the Emergency Notification Report Form as follows:</p> <p>Control # <b>CR-ILO-305</b></p> <p>LINE 1.</p> <p>Call Status:</p> <p><b>Places checkmark in This is a drill box</b></p>   |      |          |
| *12  | <p>Completes line 3</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Initial Declaration is not critical</p>  | <p>LINE 3.</p> <p>Emergency Classification:</p> <p><b>Places checkmark in Site Area Emergency box</b></p> <p><b>Places checkmark in Unit one box</b></p> <p>Records the <b>Declaration time and date.</b></p> <p>Places a checkmark in <b>this represents A/AN initial declaration box</b> in classification status.</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 7 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>FS1 alone is sufficient for the Brief Non-Technical Description for the initial notification.<br/>Candidate may paraphrase this description</p> |   |      |          |
| *13  | Completes line 4  | <p>LINE 4.</p> <p>The Emergency action level (EAL) number is:<br/>Records EAL <b>FS1</b></p> <p>Brief non –technical description of the event:<br/>Records <b>FS1</b></p> |      |          |
| *14  | Completes line 5  | <p>LINE 5.</p> <p><b>Places a checkmark in the</b><br/><b>AN Airborne Non-routine radiological release box</b></p>  |      |          |
| 15   | Completes line 6  | <p>LINE 6</p> <p>Records Wind Direction is from: <b>10°</b><br/>Wind Speed is: <b>5 mph</b></p>   |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 8 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 16   | Completes line 7  | LINE 7.<br>Conclusion:<br><b>Places a checkmark in this is a drill box.</b>   |      |          |
| *17  | Approves the Emergency Notification Report Form<br><br><b><u>EVALUATOR NOTE:</u></b><br>Candidate may review the filled out ENR form with the E Plan Communicator.  | Records the following on space provided:<br>Approved: - <b>His/Her name</b><br>Time: - <b>Current time</b><br>Date: - <b>Current Date</b> |      |          |
| 18   | Give the approved ENR form to the E Plan Communicator.<br><br><b><u>EVALUATOR CUE:</u></b><br>If necessary, Role-play the communicator and accept the filled out form.<br><br><b><u>EVALUATOR CUE:</u></b><br>Inform the candidate the JPM is complete. | Provides the filled out ENR form to the E Plan Communicator.  |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

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**PERFORMANCE CHECKLIST**

Page 9 of 9

Appl. To/JPM No.: SRO 00.EP.001.305

Student Name: \_\_\_\_\_

| Step | Action  | Standard | Eval | Comments |
|------|---|----------|------|----------|
| *    | <b><u>EVALUATOR NOTE:</u></b><br>The total time from the JPM start to step 5 of the JPM must be $\leq$ 15 minutes in order for the time critical portion of the JPM to be satisfactory. |          |      |          |

\*Critical Step

#Critical Sequence

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

PPL SUSQUEHANNA, LLC

JOB PERFORMANCE MEASURE

APPROVAL AND ADMINISTRATIVE DATA SHEET

|       |               |          |         |            |         |          |
|-------|---------------|----------|---------|------------|---------|----------|
| SRO   | 00.EP.001.504 | 0        | 9/27/05 | 2.4.41     | N/A     | 4.0      |
| Appl. | JPM Number    | Rev. No. | Date    | NUREG 1123 | K/A No. | K/A Imp. |
| To    |               |          |         | Sys. No.   |         |          |

Task Title: Perform Emergency Plan Classification (Scenario ILO-504) and Complete the ENR form

Completed By:

Validated:

Rich Chin

9/27/05

Writer

Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

**Time Critical 15 Minutes**

Date of Performance:

Validated Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

( ) Satisfactory

( ) Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.EP.001.504**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100, EMERGENCY DIRECTOR CONTROL ROOM, REV. 18
- B. ILO-504, SIMULATOR EVALUATION SCENARIO
- C. EP-PS-100-A
- D. EP-PS-100-D
- E. EP-PS-100-9

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario. Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

**V. INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**VI. TASK STANDARD**

Emergency classification of Site Area Emergency declared within 15 minutes.

# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>This JPM must be performed in the simulator following completion of the scenario ILO-504 as Unit Supervisor.</li> <li>This is a time critical JPM.</li> <li>Ensure a copy of EP-PS-100 is available to support performance of this JPM.</li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Initiating Cue Sheet.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After the candidate reviews the Task Conditions / Initiating Cue Sheet:</p> <ul style="list-style-type: none"> <li>Ask if the candidate is ready to begin the JPM.</li> <li>When the candidate is ready to begin the JPM inform the candidate that this is a Time Critical JPM.</li> </ul> <p>Record Start Time _____</p> |          |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

2005 NRC Exam Rev. 1

# PERFORMANCE CHECKLIST

Page 4 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 1    | Obtains a copy of EP-PS-100.  | Controlled copy obtained.   |      |          |
| 2    | Identifies appropriate Tab  | Determines Tab A is appropriate Tab to classify the event.                                      |      |          |
| 3    | Evaluates information.  | Identifies from participation as The Unit Supervisor, RPV water level dropped below -161 inches |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Assistance may be necessary for some specific scenario data or sequence of events. Use your judgment on acceptable levels of cueing based on candidate's request. |   |      |          |
| *4   | Choose appropriate emergency classification level.  | FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers                                 |      |          |
| 5    | Record Time of Site Area<br>Emergency declaration _____   |   |      |          |
| 6    | Determines appropriate procedure section for the classification.  | Determines TAB D Manage the Site Area<br>Emergency is the appropriate TAB.                      |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

2005 NRC Exam Rev. 1

# PERFORMANCE CHECKLIST

Page 5 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 7    | Document and communicate the Emergency Classification.  | Announces to Control Room Personnel:<br>I am assuming duties of the Emergency Director.<br>Site Area Emergency Classification declared based on FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers<br>Time and Date of Classification. |      |          |
| 8    | If not performed earlier appoint an Emergency Plan Communicator   | Appoints an Emergency Plan Communicator and instruct him/her to immediately perform EP-PS-126 E Plan Communicator.  |      |          |
| 9    | If not performed earlier, appoint an NRC communicator.  | Appoints an NRC Communicator and instruct him/her to perform EP-PS-135 NRC Communicator   |      |          |
| 10   | Generate and approve an ENR form to be transmitted by the Emergency Plan Communicator.                      | Refers to ENR Form under Tab 9.   |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Inform the candidate that the Control # in the next step will be CR-ILO-504 |   |      |          |

\*Critical Step

#Critical Sequence



# PERFORMANCE CHECKLIST

Page 6 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| 11   | <p>Fill out and approve the Emergency Notification Report Form.</p> <p><b><u>EVALUATOR NOTE:</u></b><br/>The communicator will fill out the communicator name, callback telephone number, and time notification is initiated. (Line 2 of the Emergency Notification Report Form).</p> | <p>Fills out and approves the Emergency Notification Report Form as follows:</p> <p>Control # <b>CR-ILO-504</b></p> <p>LINE 1.</p> <p>Call Status:</p> <p><b>Places checkmark in This is a drill box</b></p>   |      |          |
| *12  | <p>Completes line 3</p> <p><b><u>EVALUATOR NOTE:</u></b><br/>Initial Declaration is not critical</p>  | <p>LINE 3.</p> <p>Emergency Classification:</p> <p><b>Places checkmark in Site Area Emergency box</b></p> <p><b>Places checkmark in Unit one box</b></p> <p>Records the <b>Declaration time and date.</b></p> <p>Places a checkmark in <b>this represents A/AN initial declaration box</b> in classification status.</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 7 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
|      | <b><u>EVALUATOR NOTE:</u></b><br><br>FS1 alone is sufficient for the Brief Non-Technical Description for the initial notification.<br>Candidate may paraphrase this description |  |      |          |
| *13  | Completes line 4  | LINE 4.<br>The Emergency action level (EAL) number is:<br>Records EAL <b>FS1</b><br>Brief non –technical description of the event:<br>Records <b>FS1</b> |      |          |
| *14  | Completes line 5  | LINE 5.<br><b>Places a checkmark in the</b><br><b>NO Non-routine radiological release box</b>  |      |          |
| 15   | Completes line 6  | LINE 6<br>Records Wind Direction is from: <b>10°</b><br>Wind Speed is: <b>5 mph</b>  |      |          |

\*Critical Step                      #Critical Sequence

# PERFORMANCE CHECKLIST

Page 8 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 16   | Completes line 7  | LINE 7.<br>Conclusion:<br><b>Places a checkmark in this is a drill box.</b>   |      |          |
| *17  | Approves the Emergency Notification Report Form<br><br><b><u>EVALUATOR NOTE:</u></b><br>Candidate may review the filled out ENR form with the E Plan Communicator.  | Records the following on space provided:<br>Approved: - <b>His/Her name</b><br>Time: - <b>Current time</b><br>Date: - <b>Current Date</b> |      |          |
| 18   | Give the approved ENR form to the E Plan Communicator.<br><br><b><u>EVALUATOR CUE:</u></b><br>If necessary, Role-play the communicator and accept the filled out form.<br><br><b><u>EVALUATOR CUE:</u></b><br>Inform the candidate the JPM is complete. | Provides the filled out ENR form to the E Plan Communicator.  |      |          |

\*Critical Step

#Critical Sequence

**PERFORMANCE CHECKLIST**

Page 9 of 9

Appl. To/JPM No.: SRO 00.EP.001.504

Student Name: \_\_\_\_\_

| Step | Action  | Standard | Eval | Comments |
|------|---|----------|------|----------|
|      | <b><u>EVALUATOR NOTE:</u></b><br>The total time from the JPM start to step 5 of the JPM must be $\leq$ 15 minutes in order for the time critical portion of the JPM to be satisfactory. |          |      |          |

\*Critical Step

#Critical Sequence

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**PPL SUSQUEHANNA, LLC**

**JOB PERFORMANCE MEASURE**

**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|            |                      |          |                |               |            |            |
|------------|----------------------|----------|----------------|---------------|------------|------------|
| <u>SRO</u> | <u>00.EP.001.505</u> | <u>0</u> | <u>9/27/05</u> | <u>2.4.41</u> | <u>N/A</u> | <u>4.0</u> |
| Appl.      | JPM Number           | Rev. No. | Date           | NUREG 1123    | K/A No.    | K/A Imp.   |
| To         |                      |          |                | Sys. No.      |            |            |

Task Title: Perform Emergency Plan Classification (Scenario ILO-505) and Complete the ENR form

Completed By:

Validated:

Rich Chin

9/27/05

Writer

Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

Date of Performance:

**Time Critical 15 Minutes**

Validated Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

( ) Satisfactory

( ) Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.EP.001.505**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100, EMERGENCY DIRECTOR CONTROL ROOM, REV. 18
- B. ILO-505, SIMULATOR EVALUATION SCENARIO
- C. EP-PS-100-A
- D. EP-PS-100-D
- E. EP-PS-100-9

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario. Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

**V. INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**VI. TASK STANDARD**

Emergency classification of Site Area Emergency declared within 15 minutes.



# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• This JPM must be performed in the simulator following completion of the scenario ILO-505 as Unit Supervisor.</li> <li>• This is a time critical JPM.</li> <li>• Ensure a copy of EP-PS-100 is available to support performance of this JPM.</li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Initiating Cue Sheet.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After the candidate reviews the Task Conditions / Initiating Cue Sheet:</p> <ul style="list-style-type: none"> <li>• Ask if the candidate is ready to begin the JPM.</li> <li>• When the candidate is ready to begin the JPM inform the candidate that this is a Time Critical JPM.</li> </ul> <p>Record Start Time _____</p> |          |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

Page 4 of 9

Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 1    | Obtains a copy of EP-PS-100.  | Controlled copy obtained.   |      |          |
| 2    | Identifies appropriate Tab  | Determines Tab A is appropriate Tab to classify the event.                                      |      |          |
| 3    | Evaluates information.  | Identifies from participation as The Unit Supervisor, RPV water level dropped below -161 inches |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Assistance may be necessary for some specific scenario data or sequence of events. Use your judgment on acceptable levels of cueing based on candidate's request. |   |      |          |
| *4   | Choose appropriate emergency classification level.  | FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers                                 |      |          |
| 5    | Record Time of Site Area<br>Emergency declaration _____   |   |      |          |
| 6    | Determines appropriate procedure section for the classification.  | Determines TAB D Manage the Site Area<br>Emergency is the appropriate TAB.                      |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 7    | Document and communicate the Emergency Classification.  | Announces to Control Room Personnel:<br>I am assuming duties of the Emergency Director.<br>Site Area Emergency Classification declared based on FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers<br>Time and Date of Classification. |      |          |
| 8    | If not performed earlier appoint an Emergency Plan Communicator   | Appoints an Emergency Plan Communicator and instruct him/her to immediately perform EP-PS-126 E Plan Communicator.  |      |          |
| 9    | If not performed earlier, appoint an NRC communicator.  | Appoints an NRC Communicator and instruct him/her to perform EP-PS-135 NRC Communicator   |      |          |
| 10   | Generate and approve an ENR form to be transmitted by the Emergency Plan Communicator.                          | Refers to ENR Form under Tab 9.   |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br><br>Inform the candidate that the Control # in the next step will be CR-ILO-505 |   |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 11   | <p>Fill out and approve the Emergency Notification Report Form.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>The communicator will fill out the communicator name, callback telephone number, and time notification is initiated. (Line 2 of the Emergency Notification Report Form).</p> | <p>Fills out and approves the Emergency Notification Report Form as follows:</p> <p>Control # <b>CR-ILO-505</b></p> <p>LINE 1.</p> <p>Call Status:</p> <p><b>Places checkmark in This is a drill box</b></p>   |      |          |
| *12  | <p>Completes line 3</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>Initial Declaration is not critical</p>  | <p>LINE 3.</p> <p>Emergency Classification:</p> <p><b>Places checkmark in Site Area Emergency box</b></p> <p><b>Places checkmark in Unit one box</b></p> <p>Records the <b>Declaration time and date.</b></p> <p>Places a checkmark in <b>this represents A/AN initial declaration box</b> in classification status.</p> |      |          |

\*Critical Step

#Critical Sequence

# PERFORMANCE CHECKLIST

Page 7 of 9

Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>FS1 alone is sufficient for the Brief Non-Technical Description for the initial notification.<br/>Candidate may paraphrase this description</p> |   |      |          |
| *13  | Completes line 4  | <p>LINE 4.</p> <p>The Emergency action level (EAL) number is:<br/>Records EAL <b>FS1</b></p> <p>Brief non –technical description of the event:<br/>Records <b>FS1</b></p> |      |          |
| *14  | Completes line 5  | <p>LINE 5.</p> <p><b>Places a checkmark in the<br/>NO Non-routine radiological release box</b></p>  |      |          |
| 15   | Completes line 6  | <p>LINE 6</p> <p>Records Wind Direction is from: <b>10°</b><br/>Wind Speed is: <b>5 mph</b></p>   |      |          |

\*Critical Step                      #Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 16   | Completes line 7  | LINE 7.<br>Conclusion:<br><b>Places a checkmark in this is a drill box.</b>   |      |          |
| *17  | Approves the Emergency Notification Report Form   | Records the following on space provided:<br>Approved: - <b>His/Her name</b><br>Time: - <b>Current time</b><br>Date: - <b>Current Date</b> |      |          |
|      | <b><u>EVALUATOR NOTE:</u></b><br>Candidate may review the filled out ENR form with the E Plan Communicator. |   |      |          |
| 18   | Give the approved ENR form to the E Plan Communicator.  | Provides the filled out ENR form to the E Plan Communicator.  |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>If necessary, Role-play the communicator and accept the filled out form.    |   |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Inform the candidate the JPM is complete.                                   |   |      |          |

\*Critical Step

#Critical Sequence

**PERFORMANCE CHECKLIST**

Page 9 of 9

Appl. To/JPM No.: SRO 00.EP.001.505

Student Name: \_\_\_\_\_

| Step | Action  | Standard | Eval | Comments |
|------|---|----------|------|----------|
|      | <b><u>EVALUATOR NOTE:</u></b><br>The total time from the JPM start to step 5 of the JPM must be $\leq$ 15 minutes in order for the time critical portion of the JPM to be satisfactory. |          |      |          |

\*Critical Step

#Critical Sequence

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## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.



## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**PPL SUSQUEHANNA, LLC**

**JOB PERFORMANCE MEASURE**

**APPROVAL AND ADMINISTRATIVE DATA SHEET**

|            |                      |          |                |               |            |            |
|------------|----------------------|----------|----------------|---------------|------------|------------|
| <u>SRO</u> | <u>00.EP.001.602</u> | <u>0</u> | <u>9/27/05</u> | <u>2.4.41</u> | <u>N/A</u> | <u>4.0</u> |
| Appl.      | JPM Number           | Rev. No. | Date           | NUREG 1123    | K/A No.    | K/A Imp.   |
| To         |                      |          |                | Sys. No.      |            |            |

Task Title: Perform Emergency Plan Classification (Scenario ILO-602) and Complete the ENR form

Completed By:

Validated:

Rich Chin  
Writer

9/27/05  
Date

Instructor/Writer

Date

Approval:

Nuclear Trng. Supv.

Date

Date of Performance:

**Time Critical 15 Minutes**

Validated Time (Min.)

Time Taken (Min.)

JPM Performed By:

Student Name:

Last

First

M.I.

Employee # / S.S. #

Performance  
Evaluation:

(     ) Satisfactory

(     ) Unsatisfactory

Evaluator Name:

Signature

Typed or Printed

Comments:

**REQUIRED TASK INFORMATION  
JOB PERFORMANCE MEASURE  
SRO 00.EP.001.602**

**I. SAFETY CONSIDERATIONS**

- A. All Operations personnel are responsible for maintaining their radiation exposure As Low As Reasonably Achievable in accordance with OP-AD-002, Standards for Shift Operations.
- B. All applicable safety precautions shall be taken in accordance with established PPL safety policies and the Safety Rule Book, for example:
  - 1. Whenever any electrical panel is opened for inspection during JPM performance.
  - 2. Whenever entering any plant area where specific safety equipment; such as hearing or eye protection, safety shoes, hardhats, etc; is required and/or posted as being necessary.
- C. If in the judgment of the evaluator any safety issue occurs during the performance of a JPM, the JPM will be terminated until the issue is resolved.
- D. Peer checking is the expectation for all evolutions; however, since a JPM is an individual effort, no peer check will be provided and Self Checking is required.

**II. REFERENCES**

- A. EP-PS-100, EMERGENCY DIRECTOR CONTROL ROOM, REV. 18
- B. ILO-602, SIMULATOR EVALUATION SCENARIO
- C. EP-PS-100-A
- D. EP-PS-100-D
- E. EP-PS-100-9

**III. REACTIVITY MANIPULATIONS**

This JPM satisfies the following Operational Activity(s):  
None

**IV. TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario. Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

**V. INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

**VI. TASK STANDARD**

Emergency classification of Site Area Emergency declared within 15 minutes.

# PERFORMANCE CHECKLIST

Page 3 of 9

Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action   | Standard | Eval | Comments |
|------|--|----------|------|----------|
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <ul style="list-style-type: none"> <li>• This JPM must be performed in the simulator following completion of the scenario ILO-602 as Unit Supervisor.</li> <li>• This is a time critical JPM.</li> <li>• Ensure a copy of EP-PS-100 is available to support performance of this JPM.</li> </ul> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>To begin this JPM, provide the candidate with the Initiating Cue Sheet.</p> <p><b><u>EVALUATOR NOTE:</u></b></p> <p>After the candidate reviews the Task Conditions / Initiating Cue Sheet:</p> <ul style="list-style-type: none"> <li>• Ask if the candidate is ready to begin the JPM.</li> <li>• When the candidate is ready to begin the JPM inform the candidate that this is a Time Critical JPM.</li> </ul> <p>Record Start Time _____</p> |          |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| 1    | Obtains a copy of EP-PS-100.  | Controlled copy obtained.   |      |          |
| 2    | Identifies appropriate Tab  | Determines Tab A is appropriate Tab to classify the event.  |      |          |
| 3    | Evaluates information.  | Identifies from participation as The Unit Supervisor, ATWS and RPV water level dropped below -161 inches                                  |      |          |
|      | <b><u>EVALUATOR CUE:</u></b><br>Assistance may be necessary for some specific scenario data or sequence of events. Use your judgment on acceptable levels of cueing based on candidate's request. |   |      |          |
| *4   | Choose appropriate emergency classification level.  | MS3<br>ATWS and ARI fail to reduce power to less than 5%<br><br>OR<br><br>FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers |      |          |

\*Critical Step

#Critical Sequence

Form NTP-QA-31.8-2, Rev. 0, Page 1 of 1

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 5    | Record Time of Site Area<br>Emergency declaration _____          |  |      |          |
| 6    | Determines appropriate procedure section for the classification. | Determines TAB D Manage the Site Area<br>Emergency is the appropriate TAB.   |      |          |
| 7    | Document and communicate the Emergency Classification.           | Announces to Control Room Personnel:<br>I am assuming duties of the Emergency Director.<br>Site Area Emergency Classification declared based on<br>MS3<br>ATWS and ARI fail to reduce power to less than 5%<br>OR<br>FS1<br>Loss or Potential loss of ANY 2 Fission Product Barriers<br>Time and Date of Classification. |      |          |
| 8    | If not performed earlier appoint an Emergency Plan Communicator  | Appoints an Emergency Plan Communicator and instruct him/her to immediately perform EP-PS-126 E Plan Communicator.   |      |          |
| 9    | If not performed earlier, appoint an NRC communicator.           | Appoints an NRC Communicator and instruct him/her to perform EP-PS-135 NRC Communicator  |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action   | Standard   | Eval | Comments |
|------|--|--|------|----------|
| 10   | Generate and approve an ENR form to be transmitted by the Emergency Plan Communicator.   | Refers to ENR Form under Tab 9.  |      |          |
|      | <p><b><u>EVALUATOR CUE:</u></b></p> <p>Inform the candidate that the Control # in the next step will be CR-ILO-602</p>   |  |      |          |
| 11   | Fill out and approve the Emergency Notification Report Form.   | <p>Fills out and approves the Emergency Notification Report Form as follows:</p> <p>Control # <b>CR-ILO-602</b></p> <p>LINE 1.</p> <p>Call Status:</p> <p><b>Places checkmark in This is a drill box</b></p> |      |          |
|      | <p><b><u>EVALUATOR NOTE:</u></b></p> <p>The communicator will fill out the communicator name, callback telephone number, and time notification is initiated. (Line 2 of the Emergency Notification Report Form).</p> |  |      |          |

\*Critical Step

#Critical Sequence

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## PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| *12  | <p>Completes line 3</p> <p><b>EVALUATOR NOTE:</b></p> <p>Initial Declaration is not critical</p><br><br><p><b>EVALUATOR NOTE:</b></p><br><br><p>MS3 or FS1 alone is sufficient for the Brief Non-Technical Description for the initial notification.</p> <p>Candidate may paraphrase this description</p> | <p>LINE 3.</p> <p>Emergency Classification:</p> <p><b>Places checkmark in Site Area Emergency box</b></p> <p><b>Places checkmark in Unit one box</b></p> <p>Records the <b>Declaration time and date.</b></p> <p>Places a checkmark in <b>this represents A/AN initial declaration box</b> in classification status.</p> |      |          |
| *13  | <p>Completes line 4</p>   | <p>LINE 4.</p> <p>The Emergency action level (EAL) number is:</p> <p>Records EAL</p> <p><b>MS 3 or FS1</b></p> <p>Brief non –technical description of the event:</p> <p>Records <b>MS 3 or FS1</b></p>   |      |          |

**\*Critical Step**

### #Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action  | Standard  | Eval | Comments |
|------|---|---|------|----------|
| *14  | Completes line 5  | LINE 5.<br><b>Places a checkmark in the<br/>NO Non-routine radiological release box</b>   |      |          |
| 15   | Completes line 6  | LINE 6<br>Records Wind Direction is from: <b>10°</b><br>Wind Speed is: <b>5 mph</b>   |      |          |
| 16   | Completes line 7  | LINE 7.<br>Conclusion:<br><b>Places a checkmark in this is a drill box.</b>   |      |          |
| *17  | Approves the Emergency Notification Report Form   | Records the following on space provided:<br>Approved: - <b>His/Her name</b><br>Time: - <b>Current time</b><br>Date: - <b>Current Date</b> |      |          |
|      | <b><u>EVALUATOR NOTE:</u></b><br>Candidate may review the filled out ENR form with the E Plan Communicator. |   |      |          |

\*Critical Step

#Critical Sequence

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# PERFORMANCE CHECKLIST

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Appl. To/JPM No.: SRO 00.EP.001.602

Student Name: \_\_\_\_\_

| Step | Action  | Standard   | Eval | Comments |
|------|---|--|------|----------|
| 18   | <p>Give the approved ENR form to the E Plan Communicator.</p> <p><b><u>EVALUATOR CUE:</u></b><br/>If necessary, Role-play the communicator and accept the filled out form.</p> <p><b><u>EVALUATOR CUE:</u></b><br/>Inform the candidate the JPM is complete.</p> <p><b><u>EVALUATOR NOTE:</u></b><br/>The total time from the JPM start to step 5 of the JPM must be <math>\leq</math> 15 minutes in order for the time critical portion of the JPM to be satisfactory.</p> <p><b><u>EVALUATOR NOTE:</u></b><br/>If RPV water level drops below -205 inches the EAL will escalate to a General Emergency under MG3, and the ENR form will also reflect AN airborne NON routine radiological release based on loss of the Fuel clad barrier.</p> | Provides the filled out ENR form to the E Plan Communicator. |      |          |

\*Critical Step

#Critical Sequence

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## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.

## **TASK CONDITIONS**

Consider the plant transient conditions and failures experienced in this scenario.  
Assume Wind Direction was from: 10° and Wind Speed was: 5 mph throughout the scenario.

## **INITIATING CUE**

Provide the highest emergency classification level for the events in the scenario just completed, and complete the Emergency Notification Form.