

Facility: Peach Bottom Unit 2 & 3Date of Examination: Week of Feb. 5, 2001Examination Level (circle one): (RO) SROOperating Test Number: RO - 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Temporary Modification to Procedure JPM	Prepare a "Partial Procedure" for Post-Maintenance Testing of a Component (JPM)
	Parameter Verification JPM	Perform a Manual Heat Balance (JPM)
A.2	Clearance and Tagging JPM	Identify Clearance Boundaries for component maintenance (JPM)
A.3	Control of Radiation Releases JPM	Perform the Plant Reactor Operator (PRO) Actions for a Liquid Radwaste Discharge (JPM)
A.4	Emergency Communicator JPM	Perform the duties of the NRC Communicator for an Emergency Event – Activate the Emergency Response Data System (JPM)

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PECO NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: 3421130302

K/A: 2.2.11

URO: 2.5 SRO: 3.4

TASK DESCRIPTION: Prepare a Partial Procedure

A. NOTES TO EVALUATOR:

1. An asterisk (*) before the step number denotes a CRITICAL STEP. CRITICAL STEPS are those steps which when not performed correctly will prevent the system from functioning properly or prevent successful task completion.
2. System cues included in the performance checklist are to be provided to the examinee when no system response is available.
3. JPM Performance
 - a. "Control Room" JPMs are designed to be performed in the simulator. If a "Control Room" JPM is to be performed in the Control Room all perform steps (P) shall be simulated (S).
 - b. When performing "In-Plant" JPMs, no equipment will be operated without Shift Management approval.
4. Satisfactory performance of this JPM is accomplished if:
 - a. The task standard is met.
 - b. JPM completion time requirement is met.
 - 1) For non-time critical JPMs, completion within double the estimated time (listed in paragraph D.2) is acceptable provided the evaluator determines that the progress to completion is acceptable.
 - 2) For time critical JPMs, completion within the estimated time (listed in paragraph D.2) is required.
5. The estimated time to complete this JPM, though listed in the task standard, is not to be given to the examinee.

B. TOOLS AND EQUIPMENT

1. A blank copy of ST-O-010-401-2, Rev. 0, "RHR Manual Isolation Valves Remote Position Indication Verification"

C. REFERENCES

1. A-3, Rev. 18, "Temporary Changes to Procedures and Partial Procedure Use"
2. ST-O-010-401-2, Rev. 0, "RHR Manual Isolation Valves Remote Position Indication Verification"

D. TASK STANDARD

1. Satisfactory task completion is indicated when the candidate has correctly prepared ST-O-010-401-2, "RHR Manual Isolation Valves Remote Position Indication Verification" as a partial for the completion of Post Maintenance Testing on the "B" RHR Loop Manual Isolation Valve.
2. Estimated time to complete: 15 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to prepare a partial procedure for Post Maintenance Testing of the "B" RHR Loop Manual Isolation Valve using appropriate procedures. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. An outage is in progress on Unit 2.
2. The plant is in Mode 4.
3. Work has been performed on HV-2-10-081B, "RHR Loop B Manual Isolation Valve".
4. Maintenance has completed repairs on the valve and it is ready for Post Maintenance Testing.

G. INITIATING CUE

The Control Room Supervisor directs you to prepare a Partial Procedure using ST-O-010-401-2, "RHR Manual Isolation Valves Remote Position Indication Verification" to complete Post Maintenance Testing of the HV-2-10-081B. Submit the completed partial procedure for review and approval.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Obtain a copy of the procedure. Note: Partial Procedures are completed in accordance with A-3, "Temporary Changes to Procedures and Partial Procedure Use". The candidate may refer to this procedure during the JPM.	P	A copy of ST-O-010-401-2 is obtained.
*2	Enter the word "PARTIAL" on the first page of the procedure.	P	The word "PARTIAL" is entered on the front page.
*3	Record the reason for the partial and whether additional testing is required to fulfill surveillance test requirements.	P	Candidate writes words that indicate the partial is being used as Post Maintenance Test and that it will meet the surveillance requirements for the position indication of the "B" manual isolation valve.
*4	Indicate changes on the procedure to those steps or portions of the procedure that are not required to be performed.	P	Steps which do not support the testing of the "B" RHR Loop Manual Isolation Valve are changed or crossed out. <ul style="list-style-type: none"> • Steps 6.1.2 through 6.1.5 should be crossed out. • Step 7.1.1 should be crossed out. • Information for HV-2-10-081A on Data Sheet 1 should be crossed out.
5	Submit the partial for approval. (Cue: Accept partial for approval.)	P	Candidate will give evaluator the marked up procedure for approval.
*** NOTE ***			
Terminate the exercise when the activities listed above are performed.			

Under "ACT" P - must perform
S - must simulate

I. TERMINATING CUE

When the candidate submits the Partial Procedure for approval, the evaluator will then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. An outage is in progress on Unit 2.**
- 2. The plant is in Mode 4.**
- 3. Work has been performed on HV-2-10-081B, "RHR Loop B Manual Isolation Valve".**
- 4. Maintenance has completed repairs on the valve and it is ready for Post Maintenance Testing.**

INITIATING CUE

The Control Room Supervisor directs you to prepare a Partial Procedure using ST-O-010-401-2, "RHR Manual Isolation Valves Remote Position Indication Verification" to complete Post Maintenance Testing of the HV-2-10-081B. Submit the completed partial procedure for review and approval.

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PECO NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: 2990730101

K/A: 2.2.13

URO: 3.6 SRO: 3.8

TASK DESCRIPTION: Knowledge of tagging and clearance procedures

A. NOTES TO EVALUATOR:

1. An asterisk (*) before the step number denotes a CRITICAL STEP. CRITICAL STEPS are those steps which when not performed correctly will prevent the system from functioning properly or prevent successful task completion.
2. System cues included in the performance checklist are to be provided to the examinee when no system response is available.
3. JPM Performance
 - a. "Control Room" JPMs are designed to be performed in the simulator. If a "Control Room" JPM is to be performed in the Control Room all perform steps (P) shall be simulated (S).
 - b. When performing "In-Plant" JPMs, no equipment will be operated without Shift Management approval.
4. Satisfactory performance of this JPM is accomplished if:
 - a. The task standard is met.
 - b. JPM completion time requirement is met.
 - 1) For non-time critical JPMs, completion within double the estimated time (listed in paragraph D.2) is acceptable provided the evaluator determines that the progress to completion is acceptable.
 - 2) For time critical JPMs, completion within the estimated time (listed in paragraph D.2) is required.
5. The estimated time to complete this JPM, though listed in the task standard, is not to be given to the examinee.

B. TOOLS AND EQUIPMENT

1. P&ID M-356 sheet 1 Rev. 65
2. Electrical drawing E-8 sheet Rev. 16

C. REFERENCES

1. P&ID M-356 sheet 1 Rev. 65
2. Electrical drawing E-8 sheet 1 Rev. 16

D. TASK STANDARD

1. Satisfactory task completion is indicated when the clearance points for the control rod drive pump have been identified.
2. Estimated time to complete: 15 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, determine the clearance points necessary to replace the outboard pump bearing on the 2B Control Rod drive Pump.

F. TASK CONDITIONS/PREREQUISITES

1. The CRD pump 2BP039 outboard pump bearing needs to be replaced.
2. The Turbine Building Closed Cooling Water (TBCCW) System cooler will not be breached.

G. INITIATING CUE

The Control Room Supervisor directs you to identify the clearance points for the repair of the control rod drive pump bearing. Inform the Control Room Supervisor when complete.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	<p>Locate the component to be repaired on the P&ID drawing.</p> <p>(Cue: Provide the candidate with a copy of M-356 Sheet 1.)</p>	P	Locate CRD Pump 2BP039 on M-356 sheet 1, (C-5).
2	<p>Locate the component to be repaired on electrical print.</p> <p>(Cue: Provide the candidate with a copy of E-8 Sheet 1.)</p>	P	Locate CRD Pump 2BP039 on E-8 Sheet 1.
*3	<p>Determine the clearance points.</p> <p>(Cue: Acknowledge the blocking point selections.)</p>	P	<p>The operator determines the following minimum clearance points on 2BP039:</p> <ol style="list-style-type: none"> 1. Pump control switch OFF 2. BKR 152-1805 OPEN and racked out. 3. HV 2-3-35B "Suction Block VLV" - CLOSED 4. HV 2-3-36B "Inner Disch Block VLV" - CLOSED 5. HV 2-3-39 "Seal Flood Cross Conn. VLV" - CLOSED 6. HV 2-3-37B "Recirc to CST" - CLOSED 7. HV 2-2A-23045B "CRD PMP Disch VLV to Recirc PMP Seal Purge" - CLOSED 8. HV 2-3-21659B "Blowdown VLV" - OPEN (see note) and/or HV 2-3-21670B "Drain VLV" - OPEN (see note) 9. RTV-2-3-38B "CRD Pp suct-lo" - OPEN 10. IDV-2-3-201B "Inst. drain VLV" - OPEN (see note) <p>NOTE: at least one vent valve and one drain valve is required.</p>

STEP NO	STEP	ACT	STANDARD
4	Inform Control Room Supervisor of task completion. (Cue: The Control Room Supervisor acknowledges the report.)	P	The operator informs the Control Room Supervisor of task completion.
<p style="text-align: center;">*** NOTE ***</p> <p>Terminate the exercise when the activities listed above are performed.</p>			

Under "ACT" P - must perform
S - must simulate

I. TERMINATING CUE

When the clearance points have been identified, and the Control Room Supervisor informed, the evaluator will terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. The CRD pump 2BP039 outboard pump bearing needs to be replaced.**
- 2. The Turbine Building Closed Cooling Water (TBCCW) System cooler will not be breached.**

INITIATING CUE

The Control Room Supervisor directs you to identify the clearance points for the repair of the control rod drive pump bearing. Inform the Control Room Supervisor when complete.

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PECO NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: 2730130202

K/A: 2.3.11

URO: 2.7 SRO: 3.2

TASK DESCRIPTION: Ability to control radiation releases.

A. NOTES TO EVALUATOR:

1. An asterisk (*) before the step number denotes a CRITICAL STEP. CRITICAL STEPS are those steps which when not performed correctly will prevent the system from functioning properly or prevent successful task completion.
2. System cues included in the performance checklist are to be provided to the examinee when no system response is available.
3. JPM Performance
 - a. "Control Room" JPMs are designed to be performed in the simulator. If a "Control Room" JPM is to be performed in the Control Room all perform steps (P) shall be simulated (S).
 - b. When performing "In-Plant" JPMs, no equipment will be operated without Shift Management approval.
4. Satisfactory performance of this JPM is accomplished if:
 - a. The task standard is met.
 - b. JPM completion time requirement is met.
 - 1) For non-time critical JPMs, completion within double the estimated time (listed in paragraph D.2) is acceptable provided the evaluator determines that the progress to completion is acceptable.
 - 2) For time critical JPMs, completion within the estimated time (listed in paragraph D.2) is required.
5. The estimated time to complete this JPM, though listed in the task standard, is not to be given to the examinee.

B. TOOLS AND EQUIPMENT

1. Copy of ST-C-095-805-2, Rev. 8, completed through step 6.12.8.

C. REFERENCES

1. ST-C-095-805-2, Rev. 8, "Liquid Radwaste Discharge".

D. TASK STANDARD

1. Satisfactory task completion is indicated when section 6.13 has been completed in its entirety.
2. Estimated time to complete: 12 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform the necessary steps to set-up the plant in preparation for a Liquid Radwaste discharge. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. Both units are operating at 100% power.
2. The Floor Drain Sample Tank (FDST) needs to be discharged.
3. Chemistry and Shift Management have completed ST-C-095-805-2, "Liquid Radwaste Discharge" through step 6.12.8.
4. Six Circulating Water Pumps are in operation.
5. The discharge Canal-To-Intake Pond crosstie gate is closed.
6. The PRO review and set-up has not been completed.

G. INITIATING CUE

You are the PRO. Complete section 6.13 of ST-C-095-805-2 "Liquid Radwaste Discharge".

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Record actual number of operating Circulating Pumps.	P	Visually verify six Circulating Pumps are operating, record and initial step 6.13.1.
*2	Set the HI Trip Setpoint.	P	Manually adjust the HI Setpoint Pot setting for RIS-0-17-350 to ≤ 4.43 , and record and initial step 6.13.2.
*3	Set the HI HI Trip Setpoint.	P	Manually adjust the HI HI Setpoint Pot setting for RIS-0-17-350 to ≤ 4.46 , and record and initial step 6.13.3.
4	Review PRO steps.	P	Visually verify all the PRO steps in section 6.13 are complete, and initial step 6.13.5 SAT.
5	Record your name and initials.	P	Print your name and initials in Section 10.0.
6	Forward the test. (Cue: Radwaste Operator has received the test.)	P	Forward this test to the Radwaste Operator, and initial step 6.13.6 SAT.
<p style="text-align: center;">*** NOTE ***</p> <p>Terminate the exercise when the activities listed above are performed.</p>			

Under "ACT" P - must perform
S - must simulate

I. TERMINATING CUE

When Section 6.13 of ST-C-095-805-2 has been completed, terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Both units are operating at 100% power.**
- 2. The Floor Drain Sample Tank (FDST) needs to be discharged.**
- 3. Chemistry and Shift Management have completed ST-C-095-805-2, "Liquid Radwaste Discharge" through step 6.12.8.**
- 4. Six Circulating Water Pumps are in operation.**
- 5. The discharge Canal-To-Intake Pond crosstie gate is closed.**
- 6. The PRO review and set-up has not been completed.**

INITIATING CUE

You are the PRO. Complete section 6.13 of ST-C-095-805-2 "Liquid Radwaste Discharge".

PECO NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

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POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: 2007500501

K/A: 2.4.39

URO: 3.3 SRO: 3.1

TASK DESCRIPTION: Knowledge of the RO's responsibilities in emergency plan implementation

A. NOTES TO EVALUATOR:

1. An asterisk (*) before the step number denotes a CRITICAL STEP. CRITICAL STEPS are those steps which when not performed correctly will prevent the system from functioning properly or prevent successful task completion.
2. System cues included in the performance checklist are to be provided to the examinee when no system response is available.
3. JPM Performance
 - a. "Control Room" JPMs are designed to be performed in the simulator. If a "Control Room" JPM is to be performed in the Control Room all perform steps (P) shall be simulated (S).
 - b. When performing "In-Plant" JPMs, no equipment will be operated without Shift Management approval.
4. Satisfactory performance of this JPM is accomplished if:
 - a. The task standard is met.
 - b. JPM completion time requirement is met.
 - 1) For non-time critical JPMs, completion within double the estimated time (listed in paragraph D.2) is acceptable provided the evaluator determines that the progress to completion is acceptable.
 - 2) For time critical JPMs, completion within the estimated time (listed in paragraph D.2) is required.
5. The estimated time to complete this JPM, though listed in the task standard, is not to be given to the examinee.

B. TOOLS AND EQUIPMENT

1. ERP-110, Rev. 12, Emergency Notifications

C. REFERENCES

1. ERP-110, Rev. 12, Emergency Notifications

D. TASK STANDARD

1. Satisfactory task completion is indicated when the Emergency Director is informed that the ERDS link has been made.
2. Estimated time to complete: 7 minutes NOT-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform the actions as the NRC Communicator for an Alert emergency classification. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. An Alert has just been declared on Unit 2.
2. You have been assigned to be the NRC Communicator.

G. INITIATING CUE

The Emergency Director directs you to initiate the ERDS link to the NRC via the Plant Monitoring System, per ERP-110 step 2.2.2. Inform the Emergency Director when the connection is made.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Obtain a copy of procedure ERP-110.	P	A copy of procedure ERP-110 is obtained.
2	Review ERP-110.	P	ERP-110 section 2.2.2 is referenced.
*3	Locate the PMS terminal.	P	The operator locates the PMS terminal.
*4	Select the EPDS Menu. (Cue: EPDS Menu selected)	P	At the PMS terminal, the operator selects the EPDS menu or types EPD.
*5	Select the NRC Link Activation. (Cue: NRC Link Activation selected)	P	At the PMS terminal, the operator selects the NRC Link Activation, or types NRC.
*6	Activate the Link. (Cue: "F1" selected)	P	At the PMS terminal, the operator selects "F1".
*7	Select Unit 2. (Cue: Unit 2 activated)	P	At the PMS terminal, the operator selects "F1" to activate Unit 2.
*8	Enter the password. (Cue: Password "USNRC" entered)	P	At the PMS terminal, the operator types the password "USNRC" and depresses return.
9	Notify the Emergency Director. (Cue: The ED acknowledges the report)	P	Verbally notify the Emergency Director that the EPDS link to the NRC has been completed.
<p style="text-align: center;">*** NOTE ***</p> <p>Terminate the exercise when the activities listed above are performed.</p>			

Under "ACT" P - must perform
S - must simulate

I. TERMINATING CUE

When the ERDS link to the NRC has been completed and the Emergency Director informed, the evaluator will terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. An Alert has just been declared on Unit 2.**
- 2. You have been assigned to be the NRC Communicator.**

INITIATING CUE

The Emergency Director directs you to initiate the ERDS link to the NRC via the Plant Monitoring System, per ERP-110 step 2.2.2. Inform the Emergency Director when the connection is made.