

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/> X	Peach Bottom	<input type="checkbox"/>	Limerick	<input type="checkbox"/>	Common
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<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
LOT		LOT
		001
Philip E. Nielsen		pen
Initiate a Temporary Change.		

APPROVALS:

<i>Philip E. Nielsen / Regulatory Exam Areas</i>	15 NOV 2004
Signature / Title	Date
<i>ROD. JOHNS / SRO</i>	11-16-4
Signature / Title	Date
Signature / Title	Date
Signature / Title	Date

APPROVED FOR USE:

Signature / Title	Date

EFFECTIVE DATE: ____ / ____ / ____

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Training Review for Completeness:	PIMS CODE:

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TEMPORARY CHANGE FORM LOG

ODE NO.: PILT-ADMIN 000

REV. NO.: 001

TITLE: Initiate a Temporary Change.

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EXELON NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: X

K/A: Generic 2.2.11

URO: 2.5 SRO: 3.4

TASK DESCRIPTION: Knowledge of the process for controlling Temporary Changes

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 (I 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. None

C. REFERENCES

1. AD-PB-101-103, Temporary Changes to Procedures.
2. SO 52A.1.B, Section 4.1, Diesel Generator Operations, Slow Start.

D. TASK STANDARD

1. Satisfactory task completion is indicated when Temporary Change has been submitted to the SRO with Attachment 3, Part "A" completed, in accordance with the approved procedure.
2. Estimated time to complete: 20 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to initiate a "single use" temporary change to SO 52A.1.B, "Diesel Generator Operations, Slow Start", step 4.1.1.4, using AD-PB-101-1003, "Temporary Changes to Procedures". I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. The Plant is operating at full power.
2. A "slow start" of the E-1 Diesel Generator using SO 52A.1.B "Diesel Generator Operations", is required today for performance monitoring by Predictive Maintenance.
3. SO 52A.1.B "Diesel Generator Operations" has no existing Temporary Changes.
4. The E-1 Diesel Generator Coolant Expansion Tank level indicating sightglass has a crack in it. The sightglass is isolated with an Equipment Status Tag (EST), but the tank is still available for use.
5. Maintenance reports that the sightglass will be repaired tomorrow on dayshift under Work Order CO123456.
6. The Control Room Supervisor has directed that the System Manager will determine and verify Coolant Expansion Tank level, then report it to the Control Room as part of the pre-start check of the E-1 Diesel Generator.

G. INITIATING CUE

The Control Room Supervisor directs you to initiate a "single use" temporary change to SO 52A.1.B, "Diesel Generator Operations", step 4.1.1.4, using AD-PB-101-1003, "Temporary Changes to Procedures" beginning with step 4.2.7.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	<p>Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.</p> <p>CUE: Provide the Student with Attachment 2 of this JPM.</p>	P	<p>A copy of AD-PB-101-1003, "Temporary Changes to Procedures" is obtained.</p> <p>Initiator responsibility is reviewed.</p>
<p>***Note***</p> <p>The Student may not classify the temporary change because "single use" was given to them in the initiating cue. It is necessary to provide this direction in the cue to ensure consistent implementation for evaluation purposes.</p>			
2	Determine the temporary change classification.	P	Uses the information provided and determines that this temporary change is a SINGLE USE change in accordance with Step 4.2.7.
3	Verify that the recommended change does not change the intent of the procedure.	P	Check the list of items in Step 2.1 and verify that none of them matches this temporary change (which would indicate a change of intent.
4	<p>Verify that there are no other TCs to this procedure.</p> <p>(Cue: If the candidate asks a question, refer them back to the Task Conditions sheet.)</p>	P	Recognize that there are no previously existing TCs on the Diesel Procedure. This will be documented later on Attachment 1.
*5	<p>Complete the required mark-up of SO 52A.1.B, "Diesel Generator Operations, Slow Start".</p> <p>NOTE: The exact wording by the Student may vary from that of this JPM step. As long as the intent is clear the exact wording is not important.</p>	P	<p>Completes the mark-up of SO 52A.1.B, "Diesel Generator Operations, Slow Start" by performing the following:</p> <ul style="list-style-type: none"> • *Draws a single line through each sentence of step 4.1.1.4 of SO 52A.1.B, "Diesel Generator Operations, Slow Start". • *Inserts the following text as close to the affected step as possible; <ul style="list-style-type: none"> ○ "The System Manager will verify and report Coolant Expansion tank level to the Control Room and will have coolant added as necessary." • Rev Bar, Initial and Date changes.

<p>*6</p>	<p>Complete Temporary Change Control Form, Attachment 1, Originator Section.</p> <p>NOTE: This Diesel Generator procedure is common to both Units.</p> <p>NOTE: The exact wording by the Student may vary from that of this JPM step. As long as the intent is clear the exact wording is not important.</p>	<p>P</p>	<p>Completes the Temporary Change Form, Attachment 1, Originator Section, as follows:</p> <ul style="list-style-type: none"> • *Inserts "SO-54A.1.B" on the top line of the Temporary Change Control Form. • *Writes "32" for the revision number. • *Writes "Common" on the first line for common. • *Places a check mark next to "NO" to the question related to whether this TC replaces existing TCs. • *Places a check mark next to "Single Use" • *Circles W/O and enters CO123456 • *Inserts "3" for Affected Pages. • *Inserts System Manager will verify and report Coolant Expansion tank level to the Control Room and will have coolant added as necessary for the revision summary. • Prints name, initials, dates, writes their work group and extension on the Originator Line.
<p>7</p>	<p>Present the temporary change for review and approval.</p> <p>CUE: Accept Attachment 3 and SO 52A.1.B, Diesel Generator Operations, Slow Start" from the Student as the SQR and SRO.</p>	<p>P</p>	<p>Presents Attachment 1 of AD-PB-101-1003, "Temporary Changes to Procedures" and the entire Diesel Generator Operation procedure SO 52A.1.B, "Diesel Generator Operations, Slow Start" with the marked up step 4.1.1.4 to the SQR and SRO for review and approval.</p>
<p>8</p>	<p>As an evaluator ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites) AND procedures.</p>	<p>P</p>	<p>Positive control established.</p>

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

TERMINATING CUE:

When Attachment 3 of AD-PB-101-1003, "Temporary Changes to Procedures" and the entire Diesel Generator Operation procedure SO 52A.1.B, "Diesel Generator Operations, Slow Start" with the marked up step 4.1.1.4 have been presented to the SQR and SRO for review and approval, the evaluator will terminate the exercise.

J. SPECIAL INSTRUCTIONS:

None

Attachment 1
TEMPORARY CHANGE CONTROL FORM TC #

Procedure/T&RM Number: SO 52A.1.B Revision: 32 Unit: Common
(2-3-Common)

Does this TC supersede or replace existing TCs? If YES, list TCs to be DELETED and removed from distribution:
NO ✓ YES

TC Classification: (Check One) Conditional (C) Permanent Revision (R) Single Use (S) ✓
(Type) Enter the activity No. that will restore system/component and eliminate need for Conditional TC
(Circle One) A/R or W/O: # C0123456

Affected Pages: 3

Revision Summary: Attach add'l descript, if req'd The System Manager will verify and report Control Examination Task level to the Control Room and will have control added as necessary.

Originator: R.O. Constance / RJC xx/xx/2005 OPS/1234
Print/Initials Date Work Group/Ext

Change of Intent Screening: If the proposed Temp Change involves any of the following, then a TC is inappropriate for the change. A full revision must be performed.

Changes to the purpose or methodology of the document as defined in the 'Statement of Applicability' or 'Purpose'.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Changes to assumptions or conclusions in the UFSAR or after information in any of the following: Design Basis Document (DBD), EP & Security Program, Fire Protection Program, ISI Program, IST Program, ODCM & Bases, Tech Spec & Bases, TRM & Bases?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
An unapproved setpoint or scaling change.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Change to acceptance criteria that decrease the margin of acceptance.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Change to technical specification or other regulatory related acceptance criteria.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Change that eliminates QV hold points.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Modifications to any commitment to regulators.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Changes to plant configuration or does this change alter analysis of any system/structure/component as described in the SAR?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Cross Discipline Reviews

Print	Signature	Date	Discipline or Org.
Print	Signature	Date	Discipline or Org.

Attach additional if req'd

Temp Change Authorization

SQR (for procedures only) Print/Sign/Date

SRO (procedures) or SFAM (T&RMs) Print/Sign/Date Exp. Date

14 Day SQR Approval (procedures only):

Print/Sign	Date	Discipline or Org.
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SFAM Authorization (procedures) Approval/Authorization (T&RMs):
Print/Sign Date

This TC will expire 90 days after the implementation date listed above or on the expiration date listed above (if any), whichever comes first. To request that the TC be removed from Controlled Locations and cancelled earlier, ENTER the new expiration date here.

Cancel and Remove from Controlled Locations on (Date):

FORWARD this completed document to Records Management.

4.0 PERFORMANCE STEPS

NOTE

The following sections may be performed individually without performing the entire procedure:

- o Section 4.1, Diesel Generator Slow Start
- o Section 4.2, Diesel Generator Synchronization and Loading
- o Section 4.3, Diesel Generator Fast Start
- o Section 4.4, 4KV Switchgear Manual Transfer
- o Section 4.5, Diesel Generator Shutdown

4.1 Diesel Generator Slow Start

4.1.1 Direct the operator to perform the following as a pre-start inspection:

CAUTION

Improper governor oil level may cause erratic engine operation and damage to the governor.

- 4.1.1.1 Verify governor oil level LG-7575A(B) (C) (D) above the black line AND below the top of the sightglass. **CM-7**
- 4.1.1.2 Check the engine crankcase lube oil level is between the "U+3" and the "U-2" scribe marks on the dipstick.
- 4.1.1.3 Verify proper generator bearing oil level at LG-7568A(B) (C) (D). **CM-7**
- 4.1.1.4 ~~Verify coolant expansion tank level LG-0610A(B) (C) (D) between the green and yellow rings on the sightglass. Notify the system manager if coolant is added.~~
- 4.1.1.5 Verify control rod pin is engaged with adjuster collar, on each fuel injection pump. (See Figure 1).

RO/
XXXX

The System Manager will verify and report Coolant Expansion Tank level to the Control Room and will have coolant added as necessary

TASK CONDITIONS/PREREQUISITES

- 1. The Plant is operating at full power.**
- 2. A “slow start” of the E-1 Diesel Generator using SO 52A.1.B “Diesel Generator Operations”, is required today for performance monitoring by Predictive Maintenance.**
- 3. SO 52A.1.B “Diesel Generator Operations” has no existing Temporary Changes.**
- 4. The E-1 Diesel Generator Coolant Expansion Tank level indicating sightglass has a crack in it. The sightglass is isolated with an Equipment Status Tag (EST), but the tank is still available for use.**
- 5. Maintenance reports that the sightglass will be repaired tomorrow on dayshift under Work Order CO123456.**
- 6. The Control Room Supervisor has directed that the System Manager will determine and verify Coolant Expansion Tank level, then report it to the Control Room as part of the pre-start check of the E-1 Diesel Generator.**

INITIATING CUE

The Control Room Supervisor directs you to initiate a “single use” temporary change to SO 52A.1.B, “Diesel Generator Operations”, step 4.1.1.4, using AD-PB-101-1003, “Temporary Changes to Procedures” beginning with Step 4.2.7.

ATTACHMENT 2

Provide the student a copy of the latest revision of procedure SO 52A.1.B, Diesel Generator Operations.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

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<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
ADMINISTRATIVE JPM		PILT-ADMIN 000
P. Nielsen		pen
MANUALLY CALCULATE DRYWELL BULK AVERAGE TEMPERATURE - ALTERNATE PATH (Failed Temperature Points)		000
APPROVALS: <u><i>P. Nielsen</i></u> <u>15 NOV 2004</u> <u><i>R. O. [Signature]</i></u> <u>SRO 11-16-4</u> _____ _____ _____		
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TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN 000

REV. NO.: 000

TITLE: MANUALLY CALCULATE DRYWELL BULK AVERAGE TEMPERATURE - ALTERNATE
PATH (Failed Temperature Points)

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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:

K/A: PWG 2.1.7

URO: 3.7 SRO: 4.4

TASK DESCRIPTION:

MANUALLY CALCULATE DRYWELL BULK AVERAGE
TEMPERATURE - ALTERNATE PATH (Failed Temperature Points)

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. RT-O-40C-530-2, Drywell Temperature Monitoring
2. RT-O-40C-530-2, Data Sheet 1 with temperature values filled in with points 137 and 139 indicated as out of service and point 136 reading 132.4°F.

C. REFERENCES

1. RT-O-40C-530-2, Drywell Temperature Monitoring, Rev. 5.

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when the operator has determined that Drywell Temperature requires entry into ON-120, High Drywell Temperature.
2. Estimated time to complete: 20 minutes. (Not time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, use RT-O-40C-500-2 to determine whether an entry to ON-120, High Drywell Temperature is required. I will describe the initial conditions and provide you access to the materials required to complete this task.

TASK CONDITIONS/PREREQUISITES

1. Unit 2 is experiencing a small steam leak into primary containment.
2. TI-80146, the Drywell Bulk Average indication has failed.
3. Another operator has completed taking the temperatures required for Data Sheet 1 of RT-O-40C-500-2, Drywell Temperature Monitoring.

G. INITIATING CUE

The Control Room Supervisor has directed you to perform RT-O-40C-530-2, Drywell Temperature Monitoring beginning with step 6.2.1 and report whether an entry condition exists for ON-120, High Drywell Temperature.

STEP NO	STEP	ACT	STANDARD
1	Review the provided, partially complete, ST to determine where to begin in the ST.	P	Candidate reviews the ST and determines that all steps are signed off up to step 6.2.1.
*2	Review Data Sheet 1 and recognize that all of the temperature points in Zone Number 4 are out of service (Step 6.2.1).	P	Recognize that the calculation of Bulk Average temperature is INVALID. Place an N/A in step 6.2.1.
3	Record the instrument used on the blank provided in step 6.2.2.1.	P	Record "TI-2501, Point 136" in the "Instrument Used" blank provided in step 6.2.2.1, then initial the step in the SAT column.
*4	Record the value of TI-2501, Point 136 in the provided blanks in steps 6.2.2.1 and 6.2.2.2.	P	Record "132.4" in the blanks provided before the first "°F" in steps 6.2.2.1 and 6.2.2.2.
*5	Calculate approximate Drywell Bulk Average Temperature as indicated in step 6.2.2.2.	P	Calculate $132.4^{\circ}\text{F} + 10^{\circ}\text{F} = 142.4^{\circ}\text{F}$. Record "142.4" in the blank provided in step 6.2.2.2, then initial the step in the SAT column.
*6	Complete verification of Drywell Bulk Average Temperature less than 140°F.	P	Initial the UNSAT Black Box beside Step 6.2.3.
*7	Report the status of ON-120, High Drywell Temperature entry condition.	P	Report to the CRS that ON-120 should be entered due to Approximate Drywell Bulk Average Temperature greater than 140°F.
8	As an evaluator ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites AND procedures.)	P	Positive control established.

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

TERMINATING CUE:

When the candidate informs the Control Room Supervisor of the ON-120, High Drywell Temperature entry condition, the evaluator will terminate the exercise.

TEMPORARY CHANGE FORM LOG

CODE NO.: Clearance Point JPM

REV. NO.: 000

TITLE: Establish Component Clearance Points - 2A Fuel Pool SW Booster Pump

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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-314 sheet 3
2. Electrical drawing E-178
3. Electrical drawing E-1606

C. REFERENCES

1. P&ID M-314 sheet 3
2. Electrical drawing E-178
3. Electrical drawing E-1606

D. TASK STANDARD

1. Satisfactory task completion is indicated when the clearance points for the "2A" Fuel Pool Service Water Booster Pump have been identified.
2. Estimated time to complete: 20 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, determine the clearance points necessary to perform work on the "2A" Fuel Pool Service Water Booster Pump.

F. TASK CONDITIONS/PREREQUISITES

1. The "2A" Fuel Pool Service Water Booster Pump is scheduled for maintenance that requires the pump to be isolated, vented, and drained.

G. INITIATING CUE

The Control Room Supervisor directs you to identify the clearance points for isolation, venting, and draining of the "2A" Fuel Pool Service Water Booster Pump. Inform the Control Room Supervisor when the task is completed.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Locate the component to be repaired on the P&ID drawing. (Cue: Provide the candidate with a copy of M-314 Sheet 3.)	P	Locate "2A" Fuel Pool Service Water Booster Pump on M-314 sheet 3, (F-7).
2	Locate the component to be repaired on electrical prints. (Cue: Provide the candidate with a copy of E-178 and E-1606.)	P	Locate "2A" Fuel Pool Service Water Booster Pump on E-178 and E-1606.
<p>NOTE: The following step contains the expected blocking points to isolate, vent, and drain the "2A" Fuel Pool Service Water Booster Pump. Alternate points may be acceptable, evaluate the points to determine if they meet the requirements to isolate, vent, and drain the pump. Isolation valves and at least one vent valve and one drain valve are required.</p>			
*3	Determine the clearance points. (Cue: Acknowledge the blocking point selections.)	P	The operator determines the following clearance points (critical points indicated by an asterisk) on the "2A" Fuel Pool Service Water Booster Pump: Pump control switch OFF or STOP. *BKR 1R4-R-B (2564) OPEN or OFF. *HV 2-30-21818A "Discharge Block VLV" - CLOSED *HV 2-30-21816A "Suction Block VLV" - CLOSED *HV 2-30-21819A "Discharge Drain VLV" - OPEN *HV 2-30-21817A "Vent VLV" - OPEN
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.

STEP NO	STEP	ACT	STANDARD
5	As an evaluator, ensure that you have positive control of all exam material provided to examinees (Task Conditions/Prerequisites AND procedures	P	Positive Control Established.

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

The “2A” Fuel Pool Service Water Booster Pump is scheduled for maintenance that requires the pump to be isolated, vented, and drained.

INITIATING CUE

The Control Room Supervisor directs you to identify the clearance points for isolation, venting, and draining of the “2A” Fuel Pool Service Water Booster Pump. Inform the Control Room Supervisor when the task is completed.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/> Peach Bottom	<input type="checkbox"/> Limerick	<input type="checkbox"/> Common
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ADMINISTRATIVE JPM		PILT-ADMIN 000
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PERFORM STATE/LOCAL EVENT NOTIFICATIONS FOR A DECLARED EMERGENCY		000
APPROVALS: <u><i>P. Nielsen</i></u> <u>15 NOV 2004</u> <u><i>R. O. O. / SRO</i></u> <u>11-16-4</u>		
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TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN 000

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TITLE: PERFORM STATE/LOCAL EVENT NOTIFICATIONS FOR A DECLARED EMERGENCY.

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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: K/A: 294001G213
URO: 3.6 SRO: 3.8

TASK DESCRIPTION: PERFORM STATE/LOCAL EVENT NOTIFICATIONS FOR A
DECLARED EMERGENCY.

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. EP-MA-114-100, Mid-Atlantic State/Local Notifications, Rev. 5.

C. REFERENCES

1. EP-MA-114-100, Mid-Atlantic State/Local Notifications, Rev. 5.

D. TASK STANDARD

1. Satisfactory completion of this task is indicated the State/Local Event Notifications have been properly completed.
2. Estimated time to complete: 15 minutes. (Time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, make State/Local Notifications in accordance with EP-MA-114-100, Mid-Atlantic State/Local Notifications. I will describe the initial conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. A transient has occurred on Peach Bottom Unit 2.
2. The Shift Manager, acting as the Station Emergency Director, has completed the initial classification of the event and prepared the State/Local Notification Form.
3. The event is classified as a Site Area Emergency.
4. Another operator has been assigned to fax the State/Local Notification Form to the TSC and the EOF.

G. INITIATING CUE

As the communicator, complete the required State and Local 15-minute Notifications in accordance with Step 4.2 of EP-MA-114-100, Mid-Atlantic State/Local Notifications using the provided STATE/LOCAL NOTIFICATION FORM.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
<p>NOTE: When the cue is provided to the candidate, then WRITE the "DECLARED AT TIME" on the State/Local Event Notification form and give it to the candidate.</p>			
1	<p>Obtain a copy of EP-MA-114-100, Mid-Atlantic State/Local Notifications.</p> <p>(Cue: this procedure may be provided by the examiner).</p>	P	Candidate obtains a copy of EP-MA-114-100, Mid-Atlantic State/Local Notifications.
2	<p>Ensure that "Utility Message No." has been assigned using a sequential number.</p>	P	Candidate verifies that the "Utility Message No." blank is filled in with the number "1".
3	<p>Verify "Emergency Director Approval" signature has been entered.</p>	P	Candidate notes the Shift Manager signature in the ED approval blank.
4	<p>Review form for completeness.</p>	P	Candidate reviews form to ensure that appropriate blanks are filled in.
5	<p>Confirm dial tone on NARS line.</p> <p>(Cue: When candidate picks up receiver, tell them that they hear a dial tone.)</p>	P/S	Candidate picks up phone and listens for dial tone.
*6	<p>Dial the appropriate CODE (CAN No.) listed for the affected station.</p> <p>(Cue: acknowledge dialing of number).</p>	P/S	Candidate dials CAN Number 833 into the phone.
*7	<p>Repeat the required message while allowing agencies to come on line.</p> <p>(Cue: acknowledge message.)</p>	P	Candidate states: "This is the Exelon Nuclear Peach Bottom Control Room. Please standby for a notification message."
*8	<p>After 10-15 seconds, read the required message.</p> <p>(Cue: acknowledge message.)</p>	P	Candidate states: "This is the Exelon Nuclear Peach Bottom Control Room. Please standby to receive a notification message and respond as the roll is called."
*9	<p>Conduct an initial roll call for the agencies listed on the State/Local Event Notification Form.</p> <p>(Cue: respond with "here" or "present" or another suitable term as each agency is called.)</p>	P	<p>Call out each agency on the Peach Bottom 15 minute notification list on page 2 of the State/Local Event Notification Form.</p> <p>Write the time on the form as each agency responds.</p>

STEP NO	STEP	ACT	STANDARD
<p>NOTE: Completion of the Initial Roll Call is required to be completed within 15 minutes of the initial classification. AFTER the JPM is complete, compare the "DECLARED AT TIME" to the roll call complete time to ensure that it is less than 15 minutes.</p>			
*10	Enter the time that the roll call was completed.	P	Enter the time the roll call was completed in the box on the bottom of the roll call box on page 2 of the form. This time is required to be less than 15 minutes.
*11	Read the blocks from the approved notification form.	P	Read each of the notification form blocks one at a time using the Phonetic Alphabet and speaking slowly and clearly.
12	Repeat the roll call. (Cue: respond with "here" or "present" or another suitable term as each agency is called.)	P	Call the roll for each agency and check the final roll call box as each agency responds.
13	Ask if there are any questions. (Cue: respond with "no questions".)	P	Ask if there are any questions and wait for a response.
14	Read the required statement. (Cue: acknowledge statement.)	P	Read the following: "This concludes the notification message".
15	Report to the Shift Manager/Emergency Director that notifications have been completed. (Cue: acknowledge report.)	P	Report that State/Local Notifications have been completed.
16	As an evaluator, ensure that you have positive control of all exam material provided to examinees (Task Conditions/Prerequisites AND procedures).	P	Positive Control Established.

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

TERMINATING CUE:

When the candidate reports that the State/Local Event Notifications are complete, the evaluator will be notified. The evaluator will then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. A transient has occurred on Peach Bottom Unit 2.**
- 2. The Shift Manager, acting as the Station Emergency Director, has completed the initial classification of the event and prepared the State/Local Notification Form.**
- 3. The event is classified as a Site Area Emergency.**
- 4. Another operator has been assigned to fax the State/Local Notification Form to the TSC and the EOF.**

INITIATING CUE

As the communicator, complete the required State and Local 15-minute Notifications in accordance with Step 4.2 of EP-MA-114-100, Mid-Atlantic State/Local Notifications using the provided STATE/LOCAL NOTIFICATION FORM.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/> Peach Bottom	<input type="checkbox"/> Limerick	<input type="checkbox"/> Common
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<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
ADMINISTRATIVE JPM		PILT-ADMIN 000
P. Nielsen		pen
REVIEW AND AUTHORIZE A ROD SEQUENCE DEVIATION		NRC
APPROVALS: _____ <i>P. Nielsen</i> 15 NOV 2004 ROD - OJT/SRO 1H16.4 _____ _____		
APPROVED FOR USE: _____		
EFFECTIVE DATE: ____/____/____		

NAME: _____ Last First M.I.	SOC. SEC. NO. _____
ISSUE DATE: _____	COMPLETION DATE: _____
COMMENTS: 	
	PIMS CODE: _____ PIMS ENTRY: _____

TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN 000

REV. NO.: 000

TITLE: REVIEW AND AUTHORIZE A ROD SEQUENCE DEVIATION

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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: K/A: PWG 2.2.11
URO: 2.5 SRO: 3.4

TASK DESCRIPTION: REVIEW AND AUTHORIZE A ROD SEQUENCE DEVIATION

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. Prepare a Rod Sequence Deviation for Control Rod 14-27 stuck at position 42 during a reactor startup.

C. REFERENCES

1. Startup Control Rod Sequence
2. NF-AB-720, Control Rod Sequence Package Preparation, Review, Revision, and Implementation.

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when errors in the Control Rod Sequence Deviation have been identified and the request disapproved.
2. Estimated time to complete: 20 minutes. (Not time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, review the Control Rod Sequence Deviation for authorization. I will describe the initial conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. A Reactor Startup is in progress on Unit 2.
2. While being moved from position 12 to position 48, Control Rod 14-27 stuck at position 42.
3. No other Control Rods are slow or inoperable.
4. The QNE has determined that a deviation is appropriate for these conditions based on the guidance contained in NF-AB-720-1000, Startup, Shutdown, and Target Rod Pattern Sequence Development Package.
5. The QNE has evaluated the deviation to ensure that the requirements of the ReMA will be met. The current ReMA will be used for the continued startup, but then a new ReMA with the change will be issued.
6. Reactor Engineering has prepared a deviation from the approved sequence.

G. INITIATING CUE

As the Control Room Supervisor, review the Control Rod Sequence Deviation for authorization.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
<p style="text-align: center;">NOTES:</p> <p style="text-align: center;">The following steps may be done in a different order as long as all steps are completed prior to placing the UNIT SUPERVISOR AUTHORIZED signature on the Control Rod Sequence Review and Approval Sheet.</p> <p style="text-align: center;">This Control Rod Sequence Deviation should be REJECTED by the candidate.</p>			
1	Reference section 4.4, Deviation from an Approved Sequence, of NF-AB-720, Control Rod Sequence Package Preparation, Review, Revision, and Implementation.	P	The operator references section 4.4, located on page 23 of NF-AB-720.
2	Determines that a deviation is appropriate based on the NOTE after step 4.4.	P	The operator checks the NOTE after step 4.4 and determines that these conditions are acceptable for a deviation.
3	Determines that the deviation is consistent with the requirements of NF-AB-720-1000.	P	The operator recognizes from the initial task conditions that this has already been verified.
4	Determines that the QNE has performed an evaluation to ensure that the deviation meets the requirement of the ReMA.	P	The operator recognizes from the initial task conditions that this has been evaluated.
5	Verifies that the Target Rod Position for Rod 14-27 is changed from "48" to "42".	P	Verifies that on Sequence Step 6, the target position of "48" is crossed out for control rod 14-27 and replaced with a "42".
6	Verifies that Sequence Step 6, Control Rod 14-27 has an appropriate entry in the "Comment/Problem Column".	P	Verifies that the "Comment/Problem" column has "Skip" and "Control Rod Stuck at Position 42" indicated. Verify that each change has two sets of initials (QNE and Second Verifier).
*7	Verifies that other occurrences of Control Rod 14-27 movement are indicated appropriately. (Cue: Acknowledge items identified).	P	Operator recognizes that Sequence Steps 3 and 4 also contain Control Rod 14-27 steps that should have "Skip" indicated beside them.

STEP NO	STEP	ACT	STANDARD
<p>NOTE</p> <p>The Operator may indicate that "SKIP" should be written in the Control Rod Insert Columns for the RO initials and 2nd Verifier initials for Control Rod 14-27 because this is a common practice. It is not, however required.</p>			
*8	<p>Operator indicates authorization status of the Control Rod Deviation.</p> <p>(Cue: Acknowledge candidate comments.)</p>	P	<p>Operator indicates that the Control Rod Sequence Deviation cannot be approved as written due to the administrative errors.</p>
9	<p>As an evaluator, ensure that you have positive control of all exam material provided to examinees (Task Conditions/ Prerequisites AND procedures.</p>	P	<p>Positive Control Established.</p>

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

TERMINATING CUE:

When the candidate informs the evaluator that he can NOT authorize the Control Rod Deviation as written, the evaluator will terminate the exercise

TASK CONDITIONS/PREREQUISITES

- 1. A Reactor Startup is in progress on Unit 2.**
- 2. While being moved from position 12 to position 48, Control Rod 14-27 stuck at position 42.**
- 3. No other Control Rods are slow or inoperable.**
- 4. The QNE has determined that a deviation is appropriate for these conditions based on the guidance contained in NF-AB-720-1000, Startup, Shutdown, and Target Rod Pattern Sequence Development Package.**
- 5. The QNE has evaluated the deviation to ensure that the requirements of the ReMA will be met. The current ReMA will be used for the continued startup, but then a new ReMA with the change will be issued.**
- 6. Reactor Engineering has prepared a deviation from the approved sequence.**

INITIATING CUE

As the Control Room Supervisor, review the Control Rod Sequence Deviation for authorization.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/>	Peach Bottom	<input type="checkbox"/>	Limerick	<input type="checkbox"/>	Common
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<input checked="" type="checkbox"/>	JPM	<input type="checkbox"/>	QUALIFICATION MANUAL	<input type="checkbox"/>	OJT MODULE
	Administrative JPM				LOT
	P. E. Nielsen				pen
	PERFORM A MANUAL HEAT BALANCE				000

APPROVALS:

	Signature / Title	Date

APPROVED FOR USE:

	Signature / Title	Date
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EFFECTIVE DATE: ____ / ____ / ____

NAME: _____ <div style="display: flex; justify-content: space-between; width: 90%; margin: 0 auto;"> Last First M.I. </div>	SOC. SEC. NO. _____
ISSUE DATE: _____	COMPLETION DATE: _____

COMMENTS:

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PIMS ENTRY:	

TEMPORARY CHANGE FORM LOG

CODE NO.: Manual Heat Balance JPM

REV. NO.: 000

TITLE: Perform a Manual Heat Balance

TGF #	TGF DATE	CHANGED SECTION #
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EXELON NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
JOB PERFORMANCE MEASURE

POSITION TITLE: Unit Reactor Operator/Senior Reactor Operator

TASK-JPM DESIGNATOR: K/A: 2.1.20
URO: 4.3 SRO: 4.2

TASK DESCRIPTION: Perform a Manual Heat Balance

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. Calculator

C. REFERENCES

1. RE-C-05, "Manual Heat Balance"

D. TASK STANDARD

1. Satisfactory task completion is indicated when Steps 6.3 and 6.4 of RE-C-05, Manual Heat Balance, have been completed and recorded.
2. Estimated time to complete: 20 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform the necessary steps to calculate a manual heat balance using the appropriate procedure. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. You have been directed to perform a manual heat balance.
2. The "Manual Heat Balance" procedure RE-C-05, is in progress and is complete through step 6.2.
3. The Reactor Engineer has determined that Data Sheet #1 (PMS Computer Data) is to be used for plant data.

G. INITIATING CUE

Complete Step 6.3, Preliminary Calculations, and Step 6.4, Data Sheet 3, of RE-C-05, "Manual Heat Balance".

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Obtain a copy of procedure RE-C-05.	P	A copy of procedure RE-C-05 is obtained.
*2	Complete the Preliminary Calculations Worksheet item #16 for feedwater flow.	P	Calculate feedwater flow as 10.26 MLB/HR by adding Data Sheet #1 items 1, 2, and 3. $0 + 5.13 + 5.13 = 10.26$ MLB/HR
*3	Complete the Preliminary Calculations Worksheet item #17 for feedwater temperature.	P	Calculate feedwater temperature as 360 deg. F by completing the Feedwater Temperature Equation. $(360+360)0 + (360+360)5.13 + (360+360)5.13$ All divided by 10.26. All times $1/2 = 360$
*4	Complete the Preliminary Calculations Worksheet item #23 for total Reactor Water Cleanup (RWCU) flow.	P	Calculate RWCU flow as .144 MLB/HR by adding Data Sheet #1 items 12 & 13. $.072 + .072 = .144$ MLB/HR
*5	Complete the Preliminary Calculations Worksheet item #24 for CRD flow.	P	Determine CRD flow as .030 MLB/HR by inputting the computer point value for item #7.
*6	Complete the Preliminary Calculations Worksheet item #9A for reactor pressure.	P	Calculate RX pressure as 1000 psia by adding 14.7 psi to Data Sheet #1 item #9. $14.7 + 985.3 = 1000$ psia
7	Sign the Preliminary Calculation Worksheet complete.	P	Initial and date step 6.3.
*8	Complete the Steam Table Data sheet item #18.	P	Calculate feedwater Enthalpy h_{fw} as 333.57 BTU/LB by plotting feedwater temperature (item #17) and RX Pressure (item #9A) on Appendix 'B'.
*9	Complete the Steam Table Data sheet item #19.	P	Determine that the Enthalpy of Saturated Steam at 1000 psig is approximately 1192 BTU/lbm (acceptable range 1186 - 1193).
*10	Complete the Steam Table Data sheet item #20.	P	Calculate the Enthalpy of Reactor Water Cleanup (RWCU) h_{cuo} from the core as 499.69 BTU/LB, by plotting RWCU inlet temp. (item #14) and RX Pressure (item #9A) on Appendix 'B'

*11	Complete the Steam Table Data sheet item #21.	P	Calculate the Enthalpy of Reactor Water Cleanup (RWCU) h_{cui} into the core as 375.96 BTU/LB, by plotting RWCU inlet temperature (item #15) and RX Pressure (item #9A) on Appendix 'B'.
*12	Complete the Steam Table Data sheet item #22.	P	Calculate the Enthalpy of CRD h_{crd} as 80.57 BTU/LB, by plotting RWCU inlet temp. (item #8) and RX Pressure (item #9A) on Appendix 'B'.
13	Sign the Steam Table Data sheet complete.	P	Initial and Date step 6.4.
14	As an evaluator, ensure that you have positive control of all exam material provided to the examinees (Task Conditions/Prerequisites AND procedures.	P	Positive Control Established.

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

TERMINATING CUE

When Step 6.4 of the ST has been completed, the evaluator will then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. You have been directed to perform a manual heat balance.**
- 2. The “Manual Heat Balance” procedure RE-C-05, is in progress and is complete through step 6.2.**
- 3. The Reactor Engineer has determined that Data Sheet #1 (PMS Computer Data) is to be used for plant data.**

INITIATING CUE

Complete Step 6.3, Preliminary Calculations, and Step 6.4, Data Sheet 3, of RE-C-05, “Manual Heat Balance”.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/> X	Peach Bottom	<input type="checkbox"/>	Limerick	<input type="checkbox"/>	Common
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<input checked="" type="checkbox"/> X	JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
ADMINISTRATIVE JPM			LOT
P. E. Nielsen			pen
REVIEW AND AUTHORIZE A CLEARANCE			000
APPROVALS:			
		<i>[Signature]</i> / <i>Administrative Exam Approver</i>	15 NOV 2021
		<i>[Signature]</i> / <i>SRO</i>	11-16-4
APPROVED FOR USE: _____			
EFFECTIVE DATE: ____/____/____			

NAME: _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Last First M.I. </div> ISSUE DATE: _____	SOC. SEC. NO. _____ COMPLETION DATE: _____				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PIMS CODE:</td> <td> </td> </tr> <tr> <td>PIMS ENTRY:</td> <td> </td> </tr> </table>		PIMS CODE:		PIMS ENTRY:	
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TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN 000

REV. NO.: 000

TITLE: REVIEW AND AUTHORIZE A CLEARANCE

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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: K/A: Generic 2.2.13
URO: 3.6 SRO: 3.8

TASK DESCRIPTION: REVIEW AND APPROVE A CLEARANCE

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. Prepare a Clearance Request that is complete ready for approval and authorization to hang tags. Include errors associated with the blocking points for the pump breaker.
2. Copy of M-363, Sheet 1 with Clearance Points highlighted.
3. Copy of E-329 with Clearance Points highlighted.
4. Copy of E-1606 with Clearance Points highlighted.

C. REFERENCES

1. M-363, Sheet 1, System P&ID.
2. E-329, Electrical Print.
3. E-1606, Electrical Print.

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when errors in the Clearance Request have been identified and the request disapproved.
2. Estimated time to complete: 20 minutes. (Not time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, review the Clearance Request for approval. I will describe the initial conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. The "B" Fuel Pool Cooling Pump is shutdown and requires a Clearance to permit preventive maintenance on the pump coupling and motor.
2. The "A" Fuel Pool Cooling Pump is in service.
3. The Work Order, Clearance and Prints will be submitted to you for review.

G. INITIATING CUE

The clearance for the 'B' Fuel Pool Cooling Pump has just been prepared. The Shift Manager directs you, the Work Execution Center (WEC) Supervisor, to review the clearance for approval and immediate application and inform the Control Room Supervisor (CRS) when complete.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
<p>NOTE: The following steps may be done in a different order as long as they are performed prior to placing the APPROVED BY signature on the Clearance. This Clearance should be REJECTED by the candidate.</p>			
1	<p>Verify the Component ID, Component Description and Clearance Description are correct.</p> <p>(Cue: Acknowledge verification of the Data.)</p>	P	<p>The operator verifies the Component ID, Component Description and the Clearance Description are correct.</p>
2	<p>Check Comment Section to verify impact of Clearance is accurate and complete.</p> <p>(Cue: Acknowledge Clearance impact.)</p>	P	<p>The operator checks the Comments Section and verifies the impact of the Clearance to be the 2B Fuel Pool Cooling Pump will be OOS.</p>
3	<p>Verify Instructions are adequate for the Clearance.</p> <p>(Cue: Acknowledge the verification of instructions.)</p>	P	<p>The operator verifies the Instructions are adequate for the Clearance.</p>
*4	<p>Verify Clearance Points to determine if they are correct and adequate for the work to be performed under this Clearance.</p> <p>(Cue: Acknowledge the incorrect Clearance Points.)</p>	P	<p>The operator reviews the adequacy and accuracy of the Clearance Points and identifies the breaker identified is for the wrong (A) pump making the following points incorrect:</p> <ul style="list-style-type: none"> • Breaker 1R4-R-B (2544) • Key for lock for Breaker 2544 HV-2-19-14B, FPC Pump Discharge Valve must also be blocked closed.
5	<p>Notify the Control Room Supervisor of the incorrect Clearance Points and the return of the Clearance without Approval.</p> <p>(Cue: The Control Room Supervisor acknowledges the report.)</p>	P	<p>The operator notifies the Control Room Supervisor of the incorrect Clearance Points and of the return of the Clearance without Approval.</p>
6	<p>As an evaluator, ensure that you have positive control of all exam material provided to the examinees (Task Conditions/Prerequisites AND procedures).</p>	P	<p>Positive Control Established.</p>

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

TERMINATING CUE:

When the tagging request review is complete and the Control Room Supervisor has been informed of its disapproval, the evaluator will terminate the exercise

TASK CONDITIONS/PREREQUISITES

- 1. The “B” Fuel Pool Cooling Pump is shutdown and requires a Clearance to permit preventive maintenance on the pump coupling and motor.**
- 2. The “A” Fuel Pool Cooling Pump is in service.**
- 3. The Work Order, Clearance and Prints will be submitted to you for review.**

INITIATING CUE

The clearance for the ‘B’ Fuel Pool Cooling Pump has just been prepared. The Shift Manager directs you, the Work Execution Center (WEC) Supervisor, to review the clearance for approval and immediate application and inform the Control Room Supervisor (CRS) when complete.

TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN 000

REV. NO.: 000

TITLE: REVIEW AND AUTHORIZE AN EMERGENCY EXPOSURE

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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: K/A: 294001G213
URO: 3.6 SRO: 3.8

TASK DESCRIPTION: REVIEW AND AUTHORIZE AN EMERGENCY EXPOSURE

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. EP-AA-113, Personnel Protective Actions
2. Attachment 2, Authorization for Emergency Exposure Forms completed for Worker One and Worker Two with the exception of the Station Emergency Director authorization.
3. Worker One and Worker Two history descriptions.

C. REFERENCES

1. EP-AA-113, Personnel Protective Actions

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when the Emergency Director has reviewed the worker histories, Authorization for Emergency Exposure Forms, and made decisions on the Emergency Exposure Requests.
2. Estimated time to complete: 20 minutes. (Not time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, review the worker histories and Authorization for Emergency Exposure Forms and make the decision as to whether to authorize the Emergency Exposure. I will describe the initial conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. Peach Bottom is experiencing a major plant transient.
2. A General Emergency has been declared.
3. It is necessary for two specially trained individuals to enter an area with extremely high radiation levels to prevent a major release that would cause significant radiation sickness to the general public in the area. The release would also result in long-term somatic and genetic effects for the public.
4. Only two individuals at Peach Bottom have the required training and experience to be successful in preventing the release.
5. Worker One and Worker Two are available and have volunteered for the assignment.
6. EP-AA-113, Attachment 2, Authorization for Emergency Exposure Forms have been completed for both individuals and require Emergency Director review and authorization.

7. A description of each worker's history has been attached to the Emergency Authorization Forms.

G. INITIATING CUE

As the Emergency Director, review the Authorization for Emergency Exposure Forms (EP-AA-113, Attachment 2) for authorization.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
<p>NOTES: The following steps may be done in a different order as long as all steps are completed prior to signing STATION EMERGENCY DIRECTOR (Authorization) on the Authorization for Emergency Exposure Form (EP-AA-113, Attachment 2).</p>			
1	Locate the correct section of EP-AA-113, Personnel Protective Actions.	P	The operator references section 4.3 of EP-AA-113.
2	Evaluate the task to determine if it is worthy of authorizing Emergency Exposure.	P	Determine that the task has an acceptable basis to authorize necessary emergency exposure. May reference EP-AA-113, Attachment 3, Emergency Worker Exposure Limits and Associated Risks.
3	Evaluate Worker One's Authorization for Emergency Exposure Form.	P	Review Worker One's Authorization for Emergency Exposure Form and note that it is completed correctly and signed by Worker One and Rad. Protection Management.
4	Evaluate Worker One's History.	P	Review Worker One's History and determine that it is acceptable for Worker One to receive the Emergency Exposure.
5	Authorize Worker One to receive the Emergency Exposure.	P	Indicate the authorization for Emergency Exposure by signing the Station Emergency Director signature block on the Emergency Exposure Authorization Form.
6	Evaluate Worker Two's history and Authorization for Emergency Exposure Form.	P	Review Worker Two's Authorization for Emergency Exposure Form and note that it is completed correctly and signed by Worker One and Rad. Protection Management.

STEP NO	STEP	ACT	STANDARD
*7	Evaluate Worker Two's History.	P	Review Worker Two's History and recognize that he has received an Emergency Exposure in the past.
*8	Do NOT authorize Worker Two to receive the Emergency Exposure.	P	Determine that since Worker Two has previously received an Emergency Exposure, he is not permitted to receive another Emergency Exposure. This is based on the CAUTION in EP-AA-113 just after Step 4.3.3 which states that "All Emergency Exposures in excess of 25 Rem TEDE shall be voluntary and shall be limited to once in a lifetime." The operator must NOT sign Worker Two's Emergency Exposure Form (Attachment 2).
9	Inform the evaluator of the results of his reviews.	P	The operator informs the evaluator that Worker One may be authorized to perform the task, but that Worker Two is NOT eligible for the Emergency Exposure.
10	As an evaluator, ensure that you have positive control of all exam material provided to the examinees (Task Conditions/Prerequisites, Worker Histories, and procedure copies.	P	Positive Control Established.

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

TERMINATING CUE:

When the Emergency Exposure Authorization Review is complete, the operator will inform the Evaluator and the exercise will be terminated.

TASK CONDITIONS/PREREQUISITES

- 1. Peach Bottom is experiencing a major plant transient.**
- 2. A General Emergency has been declared.**
- 3. It is necessary for two specially trained individuals to enter an area with extremely high radiation levels to prevent a major release that would cause significant radiation sickness to the general public in the area. The release would also result in long-term somatic and genetic effects for the public. It is estimated that each worker would receive 30 Rem of dose.**
- 4. Only two individuals at Peach Bottom have the required training and experience to be successful in preventing the release.**
- 5. Worker One and Worker Two are available and have volunteered for the assignment.**
- 6. EP-AA-113, Attachment 2, Authorization for Emergency Exposure Forms have been completed for both individuals and require Emergency Director review and authorization.**
- 7. A description of each worker's history has been attached to the Emergency Authorization Forms.**

INITIATING CUE

As the Emergency Director, review the workers histories and Authorization for Emergency Exposure Forms (EP-AA-113, Attachment 2) for authorization.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

<input checked="" type="checkbox"/> X	Peach Bottom	<input type="checkbox"/>	Limerick	<input type="checkbox"/>	Common
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<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE						
ADMINISTRATIVE JPM		PILT-ADMIN 000						
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EMERGENCY CLASSIFICATION AND PREPERATION OF THE STATE/LOCAL EVENT NOTIFICATION FORM.		000						
APPROVALS: <table border="0"> <tr> <td><i>Phy. E. Nielsen</i></td> <td><i>REGULATORY EXP. APPROVAL</i></td> <td><i>15 NOV 2004</i></td> </tr> <tr> <td><i>R. O. O. O.</i></td> <td><i>/SRO</i></td> <td><i>11-16-4</i></td> </tr> </table>			<i>Phy. E. Nielsen</i>	<i>REGULATORY EXP. APPROVAL</i>	<i>15 NOV 2004</i>	<i>R. O. O. O.</i>	<i>/SRO</i>	<i>11-16-4</i>
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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: K/A: 294001G213
URO: 3.6 SRO: 3.8

TASK DESCRIPTION: EMERGENCY CLASSIFICATION AND PREPERATION OF THE STATE/LOCAL EVENT NOTIFICATION FORM.

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. Peach Bottom Atomic Power Station Emergency Action Level Matrix.
2. EP-MA-114-100, Mid-Atlantic State/Local Notifications, Rev. 5.

C. REFERENCES

1. Peach Bottom Atomic Power Station Emergency Action Level Matrix.
2. EP-MA-114-100, Mid-Atlantic State/Local Notifications, Rev. 5.

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when event has been properly classified and the State/Local Event Notification Form has been completed.
2. Estimated time to complete: 15 minutes. (Time-critical)

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, classify the event and complete the State and Local Notification Form. I will describe the initial conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. Unit 2 was operating at 100% power when a primary system leak developed in the drywell.
2. The operators are responding using:
 - ON-120, High Drywell Temperature
 - OT-101, High Drywell Pressure
 - T-101, RPV Control
 - T-102, Primary Containment Control
3. When a manual scram was attempted, the Reactor Protection System (RPS) and Alternate Rod Insertion (ARI) failed to insert the control rods.
4. Reactor Power is currently 17% with rod insertion in progress using T-220.
5. The Wind is coming from 270 degrees with a speed of 12 miles per hour.

G. INITIATING CUE

Classify the event and complete the State/Local Notification Form in accordance with EP-MA-114-100, Mid-Atlantic State/Local Notifications.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
Evaluator: Note the time when the cue is provided to the candidate. Start Time _____.			
1	Obtain the proper documents for classifying the event.	P	Obtain a copy of the Peach Bottom Atomic Power Station Emergency Action Level Matrix.
*2	Classify the event.	P	Determine that these conditions constitute a Site Area Emergency in accordance with MS-4 of the Peach Bottom Atomic Power Station Emergency Action Level Matrix.
3	Obtain the procedure for completing the State/Local Notifications Form.	P	Obtain a copy of EP-MA-114-100, Mid-Atlantic State/Local Notifications.
*4	On the State/Local Notification Form, enter the Utility Message Number.	P	Enter "1" in the Utility Message Number Blank space.
*5	Indicate Call Status in Block 1.	P	Mark the box for "This is an Actual Plant Event" in box 1 of the form.
*6	Indicate the affected Station in Block 2.	P	Mark the box before "PEACH BOTTOM" in Box 2.
*7	Indicate the Emergency Classification.	P	For item 3.a., select "SITE AREA EMERGENCY".
*8	Indicate the affected unit.	P	For item 3.b., select "TWO".
*9	Indicate the Time and Date	P	For item 3.c., indicate the current Time and Date.
*10	Indicate what this represents.	P	For item 3.d., select "INITIAL DECLARATION".
*11	Indicate the Emergency Action Level.	P	For item 4.a., indicate "MS4".

STEP NO	STEP	ACT	STANDARD
*12	Provide a Brief Non-Technical Description.	P	For item 4.b., indicate something similar to: "A Unit 2 shutdown was attempted due to a steam leak inside the primary containment. The Reactor Protection System, Manual Scram, and Alternate Rod Insertion Systems failed to shutdown the reactor." Note that the words for this description do not have to match exactly.
*13	Indicate the status of a Radiological Release.	P	For item 5, select "a. NO non-routine radiological release in progress."
*14	Indicate Meteorology Information.	P	For item 6.a., indicate that Wind Direction is FROM 270 (degrees). For item 6.b., indicate that Wind Speed is 12 (miles per hour).
*15	Indicate the status of the PAR.	P	For item 7, indicate that a PAR is "NOT APPLICABLE".
*16	Indicate the conclusion	P	For item 8, select "This is an Actual Event".
*17	Approve the State/Local Notification Form.	P	Sign the "EMERGENCY DIRECTOR APPROVAL" blank on the top of the form.

Evaluator:

Note the time that the State/Local Notification Form is completed.

Time Complete _____.

Compare the Time Started and Time Complete.

This time must be less than or equal to 15 minutes for the JPM to be SAT.

18	As an evaluator, ensure that you have positive control of all exam material provided to the examinees (Task Conditions/Prerequisites, Worker Histories, and procedure copies.	P	Positive Control Established.
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Under "ACT" P - must perform
S - must simulate

TERMINATING CUE:

When the classification and completion of the State/Local Event Notification Form is complete the evaluator will be notified. The evaluator will then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Unit 2 was operating at 100% power when a primary system leak developed in the drywell.**
- 2. The operators are responding using:**
 - ON-120, High Drywell Temperature**
 - OT-101, High Drywell Pressure**
 - T-101, RPV Control**
 - T-102, Primary Containment Control**
- 3. When a manual scram was attempted, the Reactor Protection System (RPS) and Alternate Rod Insertion (ARI) failed to insert the control rods.**
- 4. Reactor Power is currently 17% with rod insertion in progress using T-220.**
- 5. The wind is coming from 270 degrees with a speed of 12 miles per hour.**

INITIATING CUE

Classify the event and complete the State/Local Notification Form in accordance with EP-MA-114-100, Mid-Atlantic State/Local Notifications.