

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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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	
COURSE:		REV #:	001
AUTHOR:	F. J. Bruns	TYPIST:	fjb
TITLE:	MANUALLY CALCULATE DRYWELL BULK AVERAGE TEMPERATURE - ALTERNATE PATH (Failed Temperature Points)		

APPROVALS:

	Signature / Title	Date

APPROVED FOR USE:

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

NAME: _____ Last First M.I.	ISSUE DATE: _____
SOC. SEC. NO. _____	COMPLETION DATE: _____
COMMENTS: 	
Training Review for Completeness: _____	PIMS CODE: _____
Signature/Date	PIMS ENTRY: _____

TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-XXXC

REV. NO.: 001

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

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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: G2.1.7

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, Rev. 5, "Drywell Temperature Monitoring"

D. TASK STANDARD

1. Satisfactory task completion 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 Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to *** 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. Unit 2 is experiencing a small steam leak into primary containment.
2. TI-80146, the drywell bulk average temperature 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 directs you to perform RT-O-40C-530-2, "Drywell Temperature Monitoring", beginning with step 6.2.1, and report any required actions.

H. PERFORMANCE CHECKLIST

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 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) <u>AND</u> procedures.	P	Positive control established.

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

I. TERMINATING CUE

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

TASK CONDITIONS/PREREQUISITES

- 1. Unit 2 is experiencing a small steam leak into primary containment.**
- 2. TI-80146, the drywell bulk average temperature 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".**

INITIATING CUE

The Control Room Supervisor directs you to perform RT-O-40C-530-2, "Drywell Temperature Monitoring", beginning with step 6.2.1, and report any required actions.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	PLOR - XXXXX
COURSE:		REV #:	000
AUTHOR:	M. J. Kelly	TYPIST:	fjb
TITLE:	PERFORM REACTOR COOLANT LEAKAGE SURVEILLANCE		
APPROVALS:			
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			Date
APPROVED FOR USE:			
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			Date
EFFECTIVE DATE: ____/____/____			

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Last First M.I.	
SOC. SEC. NO. _____	COMPLETION DATE: _____
COMMENTS:	
Training Review for Completeness:	PIMS CODE:
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Signature/Date	PIMS ENTRY:

TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-XXXC

REV. NO.: 000

TITLE: PERFORM REACTOR COOLANT LEAKAGE SURVEILLANCE

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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: G2.1.25

URO: 2.8 SRO: 3.1

TASK DESCRIPTION: PERFORM REACTOR COOLANT LEAKAGE SURVEILLANCE

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-O-020-560-2, Rev. 12, "Reactor Coolant Leakage Test" with hand-written data already filled in on Data Sheet 1 (use Attachment 2 of this JPM for exact values)
2. Calculator

C. REFERENCES

1. ST-O-020-560-2, Rev. 12, "Reactor Coolant Leakage Test"

D. TASK STANDARD

1. Satisfactory task completion is indicated when reactor coolant leakage has been calculated using Data Sheet 1 of ST-O-020-560-2 "Reactor Coolant Leakage Test".
2. Estimated time to complete: 15 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to calculate reactor coolant leakage using ST-O-020-560-2 "Reactor Coolant Leakage Test". I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. Unit 2 is at 100% power.
2. The Unit 2 Drywell Sump Monitoring System is operable.
3. Unit 2 Drywell Floor Drain Sump valves and pumps are lined up in accordance with SO 20C.1.A, "Floor Drain Sumps Startup and Normal Operation".
4. Unit 2 Drywell Equipment Drain Sump valves and pumps are lined up in accordance with SO 20C.1.D, "Equipment Drain Sumps Startup and Normal Operation".
5. AO 2A.16-2 "Manual Adjustment of Recirculation Pump Seal Second Stage Pressure" has NOT been performed.
6. The previous week's last six 4-hour flow data readings of Drywell Floor and Equipment Drain Sumps has been entered on Data Sheet 1 of ST-O-020-560-2, "Reactor Coolant Leakage Test".
7. The current 4-hour Drywell Floor Drain and Equipment Drain sump integrator reading has already been documented on Data Sheet 1 of ST-O-020-560-2, "Reactor Coolant Leakage Test".

G. INITIATING CUE

The Control Room Supervisor directs you to determine the Unit 2 reactor coolant leakage flow rate by performing steps 6.1 through 6.4 of ST-O-020-560-2, "Reactor Coolant Leakage Test".

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Cue: Hand the Examinee the hard copy of ST-O-020-560-2,"Reactor Coolant Leakage Test" with Data Sheet 1 data filled in by hand from Attachment 2 of this JPM.	P	
*2	Calculate and record Drywell Floor Drain 4-hour integrator difference.	P	Subtract the latest Floor Drain Sump Integrator reading from the previous 4-hour reading. Place a "0" in column (a) of Data Sheet 1.
*3	Calculate and record Drywell Floor Drain flow in gallons per minute.	P	Divide the number from column (a) of Data Sheet 1 by 12. Place a "0" in column (b) of Data Sheet 1.
*4	Calculate and record the Drywell Floor Drain 24-hour running average flow.	P	Add the six flow numbers from Column (b) and divide by 6. Place a "0" in column (c) of Data Sheet 1.
*5	Record 24 hour running average flow Drywell Floor Drain for 24 hour ago.	P	Record a "0" in column (d) of Data Sheet 1.
*6	Calculate and record the Drywell Floor Drain 24-hour running average difference.	P	Subtract column (d) from column (c) on Data Sheet 1. Place a "0" in column (e) on Data Sheet 1.
*7	Calculate and record Equipment Floor Drain 4-hour integrator difference.	P	Subtract the latest Equipment Drain Sump Integrator reading from the previous 4-hour reading. Place a "19" in column (f) of Data Sheet 1.
*8	Calculate and record Drywell Equipment Drain flow in gallons per minute.	P	Divide the number from column (f) of Data Sheet 1 by 12. Place a "1.58" in column (g) of Data Sheet 1.
*9	Calculate and record Total Drywell Leakage.	P	Add the six Equipment Drain numbers from column (b) to the six Equipment Drain numbers from column (g) of Data Sheet 1. Divide the above number by 6 and place a "1.38" in column (h) of Data Sheet 1.

STEP NO	STEP	ACT	STANDARD
*10	Verify the following data is acceptable: Column (b) is \leq 5.0 gpm Column (e) is \leq 2.0 gpm Column (h) is \leq 25.0 gpm	P	Verify all data is below the specified limits and initial "All Data Within Accep Crit" Column of Data Sheet1 as SAT.
	As an evaluator, ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites) <u>AND</u> procedures.	P	Positive control established.

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

I. TERMINATING CUE

When step 6.4 of ST-O-020-560-2, "Reactor Coolant Leakage Test" has been completed the Control Room Supervisor should be informed. The evaluator will then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Unit 2 is at 100% power.**
- 2. The Unit 2 Drywell Sump Monitoring System is operable.**
- 3. Unit 2 Drywell Floor Drain Sump valves and pumps are lined up in accordance with SO 20C.1.A, "Floor Drain Sumps Startup and Normal Operation".**
- 4. Unit 2 Drywell Equipment Drain Sump valves and pumps are lined up in accordance with SO 20C.1.D, "Equipment Drain Sumps Startup and Normal Operation".**
- 5. AO 2A.16-2 "Manual Adjustment of Recirculation Pump Seal Second Stage Pressure" has NOT been performed.**
- 6. The previous week's last six 4-hour flow data readings of Drywell Floor and Equipment Drain Sumps has been entered on Data Sheet 1 of ST-O-020-560-2,"Reactor Coolant Leakage Test".**
- 7. The current 4-hour Drywell Floor Drain and Equipment Drain sump integrator reading has already been documented on Data Sheet 1 of ST-O-020-560-2,"Reactor Coolant Leakage Test".**

INITIATING CUE

The Control Room Supervisor directs you to determine the Unit 2 reactor coolant leakage flow rate by performing steps 6.1 through 6.4 of ST-O-020-560-2,"Reactor Coolant Leakage Test".

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	PLOR-205C
COURSE:	LICENSED OPERATOR REQUALIFICATION	REV #:	000
AUTHOR:	S. M. McCartney	TYPIST:	vmb
TITLE:	PREPARE A PARTIAL PROCEDURE		
APPROVALS:			
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APPROVED FOR USE:			
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Training Review for Completeness: <div style="border-top: 1px solid black; text-align: center; margin-top: 5px;">Signature/Date</div>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PIMS CODE:</td> <td style="width:50%;"></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.: PLOR-205C

REV. NO.: 000

TITLE: Prepare a Partial Procedure

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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: 3421130302 / PLOR-205C

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. HU-AA-104-101, Rev. 0, "Procedure Use and Adherence"
2. AD-PB-101-1003, Rev. 5, "Temporary Changes To Approved Documents And Partial Procedure Use"
3. 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. Unit 2 is in an outage.
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, in accordance with HU-AA-104-101 and AD-PB-101-1003. Submit the completed partial procedure for review and approval to the SQR.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Obtain a copy of the procedure.	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 to Section 6.0, Performance Steps, those steps of the procedure that are not required to be performed.	P	Steps 6.1.2 through 6.1.5 should be marked N/A.
5	Indicate changes to Section 7.0, Procedure Completion, those steps of the procedure that are not required to be performed.	P	Step 7.1.1 should be marked N/A.
6	Indicate changes to Data Sheet 1 those steps of the procedure that are not required to be performed.	P	Information for HV-2-10-081A on Data Sheet 1 should be marked N/A.
7	Submit the partial for approval. (Cue: Accept partial for approval.)	P	Candidate will give evaluator the marked up procedure for approval.
8	As an evaluator ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites) <u>AND</u> procedures.	P	Positive control established.

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. Unit 2 is in an outage.**
- 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, in accordance with HU-AA-104-101 and AD-PB-101-1003. Submit the completed partial procedure for review and approval to the SQR.

EXELON NUCLEAR
Nuclear Generation Group

OJT/TPE MATERIAL COVERSHEET

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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	PLOR-217C
COURSE:	LICENSED OPERATOR REQUALIFICATION	REV #:	002
AUTHOR:	M. J. Kelly	TYPIST:	mda
TITLE:	PERFORM PERSONNEL NOTIFICATIONS DURING A SECURITY THREAT		
APPROVALS:			
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APPROVED FOR USE:			
	_____	Signature / Title	_____
			Date
EFFECTIVE DATE: ____/____/____			

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SOC. SEC. NO. _____	COMPLETION DATE: _____
COMMENTS:	
Training Review for Completeness:	PIMS CODE:

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TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-217C

REV. NO.: 002

TITLE: PERFORM PERSONNEL NOTIFICATIONS DURING A SECURITY THREAT

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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: 2008550401 / PLOR-217C

K/A: 2.1.8

URO: 3.8 SRO: 3.6

TASK DESCRIPTION: Perform Actions For A Security Emergency In Accordance With SE-23

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. SE-23, Response to Security Threats
2. Ensure the radio in the Simulator is selected to Ops Channel 1.

C. REFERENCES

1. SE-23, Rev. 13, "Response to Security Threats"

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when the Security Threat Announcements have been properly completed.
2. Estimated time to complete: 10 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, make the Security Threat announcement in accordance with SE-23, "Response to Security Threats". 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 Atomic Power Station is currently experiencing an "Aircraft Probable (Airborne Threat – Probable)" security threat.
2. The operating crew is executing SE-23, "Response to Security Threats".

G. INITIATING CUE

The Control Room Supervisor directs you to make the site announcements in accordance with step 3.3.5 of SE-23, "Response to Security Threats".

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	<p>Obtain a copy of SE-23, "Response to Security Threats".</p> <p>(Cue: this procedure may be provided by the examiner.)</p>	P	Candidate obtains a copy of SE-23, "Response to Security Threats" and references step 3.3.5.
2	Determine that Script #2 of SE-23 Attachment 1 is the correct script for Airborne Threat – Probable.	P	Candidate selects Script #2 of SE-23 Attachment 1 due to initial conditions being an "Aircraft Probable" security threat.
*3	<p>Activate the station alert tone.</p> <p>(Cue: the alert tone is activated.)</p>	P	Candidate activates the station alert tone by depressing the red push button beside the plant page handset at least once, preferably twice.
<p>**** NOTE: ****</p> <p>The steps to make the announcement over the plant page and the radio systems may be completed either sequentially or simultaneously.</p>			
*4	<p>Make the announcement over the plant page.</p> <p>(Cue: Acknowledge announcement.)</p>	P	Candidate depresses the page handset pushbutton and states, "Attention all personnel, attention all personnel. An airborne threat has been determined to exist at the station and a Rapid Evacuation has been ordered. Operators in excess of minimum staffing requirements muster at the upper North parking lot. Fire Brigade obtain protective gear and muster at the upper North parking lot. All personnel at Unit 1 assemble at the Atom Road Parking lot. ERO members and all other site personnel assemble at the Upper North parking lot. I repeat, an airborne threat has been determined to exist at the station and a Rapid Evacuation has been ordered. Operations in excess of minimum staffing requirements muster at the upper North parking lot. Fire Brigade obtain protective gear and muster at the Upper North parking lot. All personnel at Unit 1 assemble at the Atom Road parking lot. ERO members and all other site personnel assemble at the Upper North parking lot."

STEP NO	STEP	ACT	STANDARD
*5	<p>Make the announcement over the radio system.</p> <p>(Cue: Acknowledge announcement.)</p>	P	<p>Candidate depresses the radio transmitter pushbutton and states, "Attention all personnel, attention all personnel. An airborne threat has been determined to exist at the station and a Rapid Evacuation has been ordered. Operators in excess of minimum staffing requirements muster at the upper North parking lot. Fire Brigade obtain protective gear and muster at the upper North parking lot. All personnel at Unit 1 assemble at the Atom Road Parking lot. ERO members and all other site personnel assemble at the Upper North parking lot. I repeat, an airborne threat has been determined to exist at the station and a Rapid Evacuation has been ordered. Operations in excess of minimum staffing requirements muster at the upper North parking lot. Fire Brigade obtain protective gear and muster at the Upper North parking lot. All personnel at Unit 1 assemble at the Atom Road parking lot. ERO members and all other site personnel assemble at the Upper North parking lot."</p>
8	<p>Report to the Control Room Supervisor that the announcement has been made.</p> <p>(Cue: acknowledge report.)</p>	P	<p>Report that the Security Threat announcement has been completed.</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 reports that the Security Threat announcements are complete, the evaluator may then terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Peach Bottom Atomic Power Station is currently experiencing an “Aircraft Probable (Airborne Threat – Probable)” security threat.**
- 2. The operating crew is executing SE-23, Response to Security Threats.**

INITIATING CUE

The CRS directs you to make the site announcements in accordance with step 3.3.5 of SE-23, Response to Security Threats.

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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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	PILT-ADMIN000
COURSE:		REV #:	000
AUTHOR:	M. J. Kelly	TYPIST:	mjk
TITLE:	EVALUATE SHIFT STAFFING		
APPROVALS:			
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
APPROVED FOR USE:			
		Signature / Title	Date
EFFECTIVE DATE: ____ / ____ / ____			

NAME: _____ <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> Last First M.I. </div>	ISSUE DATE: _____				
SOC. SEC. NO. _____	COMPLETION DATE: _____				
COMMENTS: 					
Training Review for Completeness: <div style="border-top: 1px solid black; text-align: center; font-size: small;">Signature/Date</div>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PIMS CODE:</td> <td style="width:50%;"></td> </tr> <tr> <td>PIMS ENTRY:</td> <td></td> </tr> </table>	PIMS CODE:		PIMS ENTRY:	
PIMS CODE:					
PIMS ENTRY:					

TEMPORARY CHANGE FORM LOG

CODE NO.: PILT-ADMIN000

REV. NO.: 000

TITLE: EVALUATE SHIFT STAFFING

TCF #	TCF 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: X

K/A: Generic 2.1.4

URO: 2.3 SRO: 3.4

TASK DESCRIPTION: Knowledge of shift staffing requirements.

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. None

C. REFERENCES

1. OP-PB-101-111, Rev. 6, "Peach Bottom Operations Department"
2. OP-AA-105-101, Rev.9, "Administrative Process for NRC License and Medical Requirements"
3. LS-AA-119, Rev. 4, "Overtime Controls"
4. OPM-P-30, Rev. 0, "Reactor Operator Staffing Policy"
5. OPM-P-40, Rev. 1, "Peach Bottom Operations Overtime Policy"

D. TASK STANDARD

1. Satisfactory task completion is indicated when the Work Execution Center Supervisor has chosen an appropriately qualified individual that will not exceed overtime requirements to replace the disqualified operator, in accordance with approved procedures.
2. Estimated time to complete: 15 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform the steps necessary to ensure that your shift is appropriately staffed. 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 full power conditions.
2. Unit #2 is expected to do a "load drop" later this morning to facilitate investigation of air leakage on the Main Condenser.
3. Shift crew PS01 has just assumed the watch and you are the Work Execution Center Supervisor.
4. The shift is staffed as indicated on the "Shift Attendance Briefing Sheet".

G. INITIATING CUE

As the PS01 Work Execution Center Supervisor, using appropriate procedures and the Shift Attendance Briefing Sheet, determine if shift manning requirements are being met.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
	CUE: Provide the candidate with Attachment 2 of this JPM.		Hand the candidate the Shift Attendance Briefing Sheet (Attachment 2 of this JPM).
	CUE: When the candidate has had time to review Attachment 2, tell him/her that you are with Regulatory Assurance and that you have just been informed that <u>Gary Johnson's</u> NRC medical examination expired yesterday.		
1	Obtain a copy of OP-AA-105-101, "Administrative Process for NRC License and Medical Requirements" and review/utilize the correct section of the procedure.	P	Obtains a copy of OP-AA-105-101, "Administrative Process for NRC License and Medical Requirements".
*2	Evaluate the impact of Gary Johnson's medical qualification expiring and determine that he must be removed from licensed duties.	P	Using OP-AA-105-101, "Administrative Process for NRC License and Medical Requirements", steps 4.4.4 and/or 4.4.5, determines Gary Johnson must be removed from licensed duties until such time as a satisfactory medical exam can be completed.
*3	Determine if shift staffing requirements are met.	P	<p>May refer to:</p> <ul style="list-style-type: none"> • OPM-P-30, "Reactor Operator Staffing Policy", • Technical Specification 5.2, • OP-PB-101-111, "Peach Bottom Operations Department" <p>Directs the fourth RO to relieve Gary Johnson as the Unit 3 Reactor Operator.</p> <p>Determines the minimum staffing requirements are now met with three (3) Reactor Operators.</p> <p>May reassign a Shift Supervisor <u>or</u> use Gary Johnson to fill Shift Emergency Communicator position vacated by moving 4th RO.</p>

STEP NO	STEP	ACT	STANDARD
	<p>CUE: As the Shift Manager state that for the impending load drop, four (4) Reactor Operators are needed in the Control Room and no more are available on shift.</p> <p>Request the WECS to determine which RO to call-out for the remainder of the shift.</p>		
4	<p>Call-out of a qualified Reactor Operator.</p> <p>CUE: As the Shift Clerk, hand the candidate Attachment 3 of this JPM, the RO Active License Call-out List.</p>	P	<p>May refer to the following procedures:</p> <ul style="list-style-type: none"> • OPM-P-40, "Peach Bottom Operations Overtime Policy" • LS-AA-119, "Overtime Controls" <p>Requests a copy of the RO Active License Call-out List from the Shift Clerk.</p>
*5	<p>Determine which of the qualified Reactor Operators on the list is available without exceeding LS-AA-119 limitations.</p>	P	<p>May refer to Technical Specification 5.2 and/or, LS-AA-119, "Overtime Controls".</p> <p>Determines that M. Ames is the only Reactor Operator on the supplied list that can be called out for the full twelve (12) hours without exceeding procedural and Technical Specification limitations.</p>
6	<p>As an evaluator ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites) <u>AND</u> procedures.</p>	P	<p>Positive control established.</p>

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

I. TERMINATING CUE:

When the Work Execution Center Supervisor has chosen an appropriately qualified individual to replace the disqualified operator, that will not exceed LS-AA-119 overtime requirements, the evaluator will terminate the exercise.

J. SPECIAL INSTRUCTIONS:

The following Attachments are provided as described in the above steps:

1. Task Cue Sheet.
2. Shift Attendance Briefing Sheet.
3. RO Active License Call-out List.

TASK CONDITIONS/PREREQUISITES

- 1. Both units are operating at full power conditions.**
- 2. Unit #2 is expected to do a “load drop” later this morning to facilitate investigation of air in-leakage on the Main Condenser.**
- 3. PS01 has just assumed the watch and you are the Work Execution Center Supervisor.**
- 4. The shift is staffed as indicated on the “Shift Attendance Briefing Sheet”.**

INITIATING CUE

As the PS01 Work Execution Center Supervisor (WECS), using appropriate procedures and the Shift Attendance Briefing Sheet, determine if shift manning requirements are being met.

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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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR REQUALIFICATION	CODE #:	PLOR-218C
COURSE:	LICENSED OPERATOR REQUALIFICATION	REV #:	001
AUTHOR:	F. J. Bruns	TYPIST:	fjb
TITLE:	EVALUATE A P1 EDIT AND TAKE CORRECTIVE ACTION FOR A THERMAL LIMIT VIOLATION		

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: 80%; margin: 0 auto;"> Last First M.I. </div>	ISSUE DATE: _____ COMPLETION DATE: _____				
COMMENTS:					
Training Review for Completeness: _____ <div style="text-align: center;">Signature/Date</div>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PIMS CODE:</td> <td style="width:50%;"></td> </tr> <tr> <td>PIMS ENTRY:</td> <td></td> </tr> </table>	PIMS CODE:		PIMS ENTRY:	
PIMS CODE:					
PIMS ENTRY:					

TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-218C

REV. NO.: 000

TITLE: EVALUATE A P1 EDIT AND TAKE CORRECTIVE ACTION FOR A THERMAL LIMIT VIOLATION

TCF #	TCF 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: 2830150401 / PLOR-218C

K/A: 295014AA2.04

URO: 4.1 SRO: 4.4

TASK DESCRIPTION: Resolve Thermal Limits

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. None

C. REFERENCES

1. GP-13, Rev 20, "Resolution of Thermal Limit Violations"
2. GP-5, Rev 63, "Power Operations"

D. TASK STANDARD

1. Satisfactory task completion is indicated when the SRO has authorized a power reduction using control rods only, in accordance with the approved procedure.
2. Estimated time to complete: 10 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to review the initial 3D Monitor Case (P1) Edit following the previous shift's power ascension. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. Reactor power is currently stable at 100%.
2. The previous shift raised reactor power from 90% to 100% following a rod pattern adjustment, in accordance with GP-5, "Power Operations".
3. Shift turnover has been completed, all required log entries have been completed and you have assumed the duties of the Control Room Supervisor.
4. The official 3D Monitor Case (P1) Edit is being run at this time to assess the recently completed reactor power ascension.
5. The Plant Monitoring System (PMS) is operable.
6. 3D MONICORE is operable.

G. INITIATING CUE

As the Control Room Supervisor, review the official 3D Monitor Case (P1) Edit to ensure reactor core limits have been preserved during the recent power ascension.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
	<p>CUE: Provide the Student with the official 3D Monitor Case (P1) Edit (which is Attachment 2 of this JPM).</p>		
*1	<p>Review the official 3D P1 Edit to ensure Core Thermal Limits are within specified limits.</p>	P	<p>Determines MFLCPR is greater than 1.000 in one location (19-20).</p>
2	<p>Obtain a copy and enter GP-13, "Resolution of Thermal Limit Violations".</p>	P	<p>Reviews GP-13 prerequisites. Reviews procedure "NOTES" prior to step 3.1 of GP-13.</p>
*3	<p>Determine requirements to restore MFLCPR limit.</p>	P	<p>Determines the MFLCPR limit must be restored to within limits within two (2) hours or thermal power must be reduced to less than 25% RTP within the next four (4) hours.</p>
4	<p>Make immediate notification of core conditions.</p> <p>CUE: Role-play as the Shift Manager as necessary.</p> <p>CUE: Role-play as the Reactor Engineer as necessary.</p>	P	<p>Immediately informs:</p> <ul style="list-style-type: none"> • Shift Management • Reactor Engineers <p>Reports that the MFLCPR limit has been exceeded and that it must be restored to within limits within two (2) hours or thermal power must be reduced to less than 25% RTP within the next four (4) hours.</p> <p>Recommends power reduction with flow to reduce MFLCPR to < 0.980, IAW GP-5.</p> <p>Requests Reactor Engineering assistance with returning MFLCPR to below its limit.</p>
5	<p>As an evaluator ensure that you have positive control of all exam material provided to the examinee (Task Conditions/Prerequisites <u>AND</u> procedures).</p>	P	<p>Positive control established.</p>

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

I. TERMINATING CUE:

When the CRS has determined that entry into GP-13 AND a reactor power reduction is required in accordance with GP-13 (and GP-5), the evaluator may terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Reactor power is currently stable at 100%.**
- 2. The previous shift raised reactor power from 90% to 100% following a rod pattern adjustment, in accordance with GP-5, "Power Operations".**
- 3. Shift turnover has been completed, all required log entries have been completed and you have assumed the duties of the Control Room Supervisor.**
- 4. The official 3D Monitor Case (P1) Edit is being run at this time to assess the recently completed reactor power ascension.**
- 5. The Plant Monitoring System (PMS) is operable.**
- 6. 3D MONICORE is operable.**

INITIATING CUE

As the Control Room Supervisor, review the official 3D Monitor Case (P1) Edit to ensure reactor core limits have been preserved during the recent power ascension.

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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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	
COURSE:		REV #:	000
AUTHOR:	F. J. Bruns	TYPIST:	
TITLE:	REVIEW AND APPROVE PRIMARY CONTAINMENT PURGE/VENT ISOLATION VALVE CUMMULATIVE HOUR LOG		
APPROVALS:			
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
APPROVED FOR USE:			
		Signature / Title	Date
EFFECTIVE DATE: ____ / ____ / ____			

NAME: _____ Last First M.I.	ISSUE DATE: _____
SOC. SEC. NO. _____	COMPLETION DATE: _____
COMMENTS: 	
Training Review for Completeness: _____	PIMS CODE: _____
Signature/Date	PIMS ENTRY: _____

TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-XXXC

REV. NO.: 000

TITLE: REVIEW AND APPROVE PRIMARY CONTAINMENT PURGE/VENT ISOLATION VALVE CUMMULATIVE HOUR LOG

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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: 2.3.9

URO: 2.5 SRO: 3.4

TASK DESCRIPTION: Knowledge of the process for performing a containment purge.

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
2. Copy of RT-O-007-560-2, "Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log".
3. A calculation error made on Data Sheet 1 such that "Accumulated Total Time Since Beginning of Calendar Year" is greater than 90 hours, with the procedure completed to indicate total time is less than 90 hours (use Attachment 2 of this JPM for exact values).

C. REFERENCES

1. RT-O-007-560-2, Rev. 4, "Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log".

D. TASK STANDARD

1. Satisfactory task completion is indicated when the Shift Management review has been completed, the calculation error on Data Sheet 1 identified, and the total accumulated time a purge/vent valve is open has been determined to be greater than 90 hours.
2. Estimated time to complete: 15 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, perform necessary steps to review the Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log. I will describe initial plant conditions and provide you access to the materials required to complete this task.

F. TASK CONDITIONS/PREREQUISITES

1. The "Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log" for Unit 2 (RT-O-007-560-2) has been completed.
2. The "Accumulated Total Time Since Beginning of Year" is greater than 80 hours. Shift Management has been notified as required by Step 6.1.6.

G. INITIATING CUE

You are the Work Control Supervisor. Perform the Plant Staff review and approval of RT-O-007-560-2, "Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log".

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Cue: Hand the Examinee a completed copy of RT-O-007-560-2," Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log" with Data Sheets 1 and 2 data filled in by hand from Attachment 2 of this JPM.		
2	Review RT-O-007-560-2 for completeness.	P	Verifies all procedure steps, Data Sheet 1, and Data Sheet 2 have been completed satisfactorily.
3	Verify calculations.	P	Performs all calculations that were done on Data Sheet 1 to verify they are correct and properly recorded.
*4	Recognize calculation error.	P	Recognizes calculation error on Data Sheet 1 (second row for "Flow Path Open Total Time" column should be 17 Hr, 4 Min versus 5 Hr, 4 Min); <u>and</u> determines the "Accumulated Total Time Since Beginning of Year" is 93 Hr, 22 Min versus 81 Hr, 22 Min.
5	Notify Shift Management of unsatisfactory test results. (Cue: Acknowledge report.)	P	Reports to Shift Manager and/or Control Room Supervisor that the "Accumulated Total Time Since Beginning of Year" is greater than 90 hours.
6	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

I. TERMINATING CUE

When the review of RT-O-007-560-2 has been completed, the calculation error on Data Sheet 1 identified, and the total accumulated time a purge/vent valve is open has been determined to be greater than 90 hours, the evaluator will terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. The “Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log” for Unit 2 (RT-O-007-560-2) has been completed.**
- 2. The “Accumulated Total Time Since Beginning of Year” is greater than 80 hours. Shift Management has been notified as required by Step 6.1.6.**

INITIATING CUE

You are the Work Control Supervisor. Complete the Plant Staff review and approval of RT-O-007-560-2, “Primary Containment Purge/Vent Isolation Valve Cumulative Hour Log”.

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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TYPE:	<input checked="" type="checkbox"/> JPM	<input type="checkbox"/> QUALIFICATION MANUAL	<input type="checkbox"/> OJT MODULE
PROGRAM:	LICENSED OPERATOR TRAINING	CODE #:	PLOR-215C
COURSE:	LICENSED OPERATOR REQUALIFICATION	REV #:	002
AUTHOR:	J. A. Verbillis	TYPIST:	Mda
TITLE:	REVIEW AND AUTHORIZE ISSUANCE OF THYROID BLOCKING AGENT (KI)		
APPROVALS:			
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
		Signature / Title	Date
APPROVED FOR USE:			
		Signature / Title	Date
EFFECTIVE DATE: ____ / ____ / ____			

NAME: _____ Last First M.I.	ISSUE DATE: _____
SOC. SEC. NO. _____	COMPLETION DATE: _____
COMMENTS:	
Training Review for Completeness: _____	PIMS CODE: _____
Signature/Date	PIMS ENTRY: _____

TEMPORARY CHANGE FORM LOG

CODE NO.: PLOR-215C

REV. NO.: 002

TITLE: REVIEW AND AUTHORIZE ISSUANCE OF THYROID BLOCKING AGENT (KI)

TCF #	TCF 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: 2007560502 / PLOR-215C

K/A: G2.3.10

URO: 2.9 SRO: 3.3

TASK DESCRIPTION: REVIEW AND AUTHORIZE ISSUANCE OF THYROID BLOCKING AGENT (KI)

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. EP-AA-113-F-03, Thyroid Blocking Agent Authorization Form completed with the exception of the Station Emergency Director authorization.
3. Worker history descriptions.

C. REFERENCES

1. EP-AA-112-100-F-01, Rev. F, "Shift Emergency Director Checklist"
2. EP-AA-113, Rev. 7, "Personnel Protective Actions"
3. EP-AA-113-F-03, Rev. B, "Thyroid Blocking Agent Authorization"

D. TASK STANDARD

1. Satisfactory completion of this task is indicated when the Emergency Director has reviewed and denied the issuance of Thyroid Blocking Agent.
2. Estimated time to complete: 20 minutes Non-Time Critical

E. DIRECTIONS TO EXAMINEE

When given the initiating cue, review the information provided including the Thyroid Blocking Agent Authorization and make the decision as to whether to authorize the issuance of Thyroid Blocking Agent. 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 experienced a major transient that resulted in a General Emergency declaration.
2. A release is in progress.
3. There is no loss (or potential loss) of the Fuel Clad Barrier.
4. Field Monitoring Teams have been mobilized by the Shift Dose Assessor.
5. Iodine air samples have been completed and a Committed Dose Equivalent (CDE) Thyroid Dose has been calculated and verified. Total CDE Thyroid Dose is expected to be 30 Rem.

6. Due to concerns for the exposure the Field Monitoring Teams may receive, EP-AA-113-F-03, Thyroid Blocking Agent Authorization Forms, have been completed and reviewed/approved by the Radiation Protection Manager.

G. INITIATING CUE

As the Shift Emergency Director, review the attached Thyroid Blocking Agent Authorization Form (EP-AA-113-F-03) for authorization.

H. PERFORMANCE CHECKLIST

STEP NO	STEP	ACT	STANDARD
1	Obtain a copy of EP-AA-113, "Personnel Protective Actions".	P	The examinee obtains the current revision of EP-AA-113, "Personnel Protective Actions".
2	Use Section 4.4 of the procedure for KI assessment.	P	The examinee references section 4.4 of EP-AA-113.
<p>**** NOTE: ****</p> <p>IF the Operator requests to review the KI calculation, inform the Operator that the EP-MA-110-100-F-02 form is not currently available, but it has been verified and is accurate.</p>			
*3	Recognize that the conditions for issuing KI are not currently met.	P	<p>Examinee determines the conditions for Step 4.4.1.1.A are <u>NOT</u> met due to:</p> <ul style="list-style-type: none"> • <u>Condition 1</u>: there is not a loss or potential loss of the Fuel Clad Barrier. • <u>Condition 2</u>: the projected iodine thyroid exposure will be < 50 Rem CDE. <p>Examinee determines the conditions for Step 4.4.1.1.B are <u>NOT</u> since this applies to onsite workers, and:</p> <ul style="list-style-type: none"> • <u>Condition 1</u>: there is not a loss or potential loss of the Fuel Clad Barrier. • <u>Condition 2</u>: the projected iodine thyroid exposure will be < 50 Rem CDE.
4	<p>Determine that Thyroid Blocking Agent (KI) should not be issued.</p> <p>(Cue: Acknowledge report.)</p>	P	Recognize and report that KI should not be issued.
*5	<p>Deny authorizing the issuance of Thyroid Blocking Agent.</p> <p>(Cue: Acknowledge denial.)</p>	P	The examinee does not sign EP-AA-113-F-03, "Thyroid Blocking Agent Authorization Form."

STEP NO	STEP	ACT	STANDARD
6	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 the examinee has determined the conditions for issuing KI are not met and EP-AA-113-F-03 "Thyroid Blocking Agent Authorization Form" is returned without authorization, the evaluator may terminate the exercise.

TASK CONDITIONS/PREREQUISITES

- 1. Unit 2 experienced a major transient that resulted in a General Emergency declaration.**
- 2. A release is in progress.**
- 3. There is no loss (or potential loss) of the Fuel Clad Barrier.**
- 4. Field Monitoring Teams have been mobilized by the Shift Dose Assessor.**
- 5. Iodine air samples have been completed and a Committed Dose Equivalent (CDE) Thyroid Dose has been calculated and verified. Total CDE Thyroid Dose is expected to be 30 Rem.**
- 6. Due to concerns for the exposure the Field Monitoring Teams may receive, EP-AA-113-F-03, Thyroid Blocking Agent Authorization Forms, have been completed and reviewed/approved by the Radiation Protection Manager.**

INITIATING CUE

As the Shift Emergency Director, review the attached Thyroid Blocking Agent Authorization Form (EP-AA-113-F-03) for authorization.