



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: BULK D/W TEMPERATURE MANUAL CALCULATION

JPM NUMBER: JPM-001 **REV.** 5

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR304.103
Perform Actions Associated with Primary Containment Control

K/A NUMBERS: 2.2.15 2.1.45 Rating: SRO/RO: 4.3/3.9-4.3

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☒ Other: ☐
 Lab: ☐

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:		
Developer		Date
Validated by:		
Validator (See JPM Validation Checklist, Attachment 1)		Date
Approved by:		
Training Supervisor		Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

JPM BRIEFING/TURNOVER

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

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

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

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

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

INITIAL CONDITIONS:

- A Steam Line rupture occurred in the Drywell
- SPDS is OOS and TR-23-115 Point 25 has failed
- Given the following temperatures from TR-23-115 on Panel C-21:

21 Dw 970 West
224.2 °F
22 DW 932 East
221.3 °F
23 DW 950 South
236.9 °F
24 DW 990 North
242.6 °F

INITIATING CUES (IF APPLICABLE):

- The CRS directs you to manually calculate and report bulk average Drywell temperature using the operator aid below.

and below:

CONTROL C-13

VALIDATED BY: BANYAN

BULK DRYWELL TEMPERATURE CAN BE MANUALLY
CALCULATED USING THE FOLLOWING

DW ELEV	TR 23-115 POINT	TEMP	WEIGHT FACTOR	WEIGHT TEMP
EAST 932'	22	X	.400	-
SOUTH 951'	23	X	.423	-
WEST 970'	21	X	.093	-
NORTH 994'	24	X	.084	-
BULK AVERAGE DW TEMPERATURE TOTAL				-

REF CA-02-080

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

JPM PERFORMANCE INFORMATION**Required Materials:** Calculator**General References:** Operator Aid for Bulk Drywell Temperature Manual Calculation**Task Standards:** Determine Bulk Drywell Temperature via manual calculation**Start Time:** _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1 Apply Weight Factor to the temperatures from previous step to determine Weight Temperatures.

Critical: Y

- East 932' Point 22 X .400
- South 951' Point 23 X .423
- West 970' Point 21 X .093
- North 994' Point 24 X .084

Standard:

Apply Weight Factor to the temperatures as follows:

- East 932' Point 22 X .400 = (**221.3°F** x .4 = 88.52)
- South 951' Point 23 X .423 = (**236.9°F** x .423 = 100.21)
- West 970' Point 21 X .093 = (**224.2°F** x .093 = 20.85)
- North 994' Point 24 X .084 = (**242.6°F** x .084 = 20.38)

Evaluator Note:

These temperatures are approximate for Mode 1.

Performance:**SATISFACTORY** ☐ **UNSATISFACTORY** ☐**Comments:**

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

Performance Step: 4	Add weight temperatures to determine Bulk Average Drywell Temperature.
Critical: Y	
Standard:	Adds weighted temperatures for a calculated temperature of (88.52+100.21+20.85+20.38) = 229.96 ± 2°F
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____ _____

Performance Step: 5	Reports bulk average Drywell temperature calculated above to CRS.
Critical: N	
Standard:	Reports bulk average Drywell temperature calculated above to CRS.
Evaluator Cue:	When informed of calculated average drywell bulk temperature, acknowledge the report and state that the JPM is complete.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____ _____

Terminating Cues: When informed of calculated average drywell bulk temperature, acknowledge the report and state that the JPM is complete

Stop Time: _____

Historical Record:

Operator aid can be used in the control room, however, Point 25 now exists which provides the calculated Drywell temperature without SPDS. JPM updated to include pictures of temperature recorder and operator aid which will allow performance in the classroom.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

Simulator Setup (as required):

1. This JPM can be run from the following Standard (Specific) IC sets:

- IC-* (IC-*), (IC Conditions Summary)

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-001 (Bulk D/W Temperature Manual Calculation) Rev. 5

ATTACHMENT 2**JPM Number:** JPM-001**JPM Title:** Bulk D/W Temperature Manual Calculation**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3**TURNOVER SHEET****INITIAL CONDITIONS:**

- A Steam Line rupture occurred in the Drywell
- SPDS is OOS and TR-23-115 Point 25 has failed
- Given the following temperatures from TR-23-115 on Panel C-21:

21 Dw 970 West	224.2 °F
22 DW 932 East	221.3 °F
23 DW 950 South	236.9 °F
24 DW 990 North	242.6 °F

INITIATING CUES (IF APPLICABLE):

- The CRS directs you to manually calculate and report bulk average Drywell temperature using the operator aid below.

CONTROL C-13			VALIDATED BY: BANYAI		
BULK DRYWELL TEMPERATURE CAN BE MANUALLY CALCULATED USING THE FOLLOWING					
DW ELEV	TR 23-115 POINT	TEMP	WEIGHT FACTOR	WEIGHT TEMP	
EAST 932'	22		X .400	-	
SOUTH 951'	23		X .423	-	
WEST 970'	21		X .093	-	
NORTH 994'	24		X .084	-	
BULK AVERAGE DW TEMPERATURE TOTAL				-	
REF CA-02-080					

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: INDEPENDENT VERIFICATION OF RHR

JPM NUMBER: JPM-4 AWI-04.04.02-005 **REV.** 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR203.104
Shutdown RHR – Torus Cooling Mode

K/A NUMBERS: Generic 2.2.15 Rating: SRO/RO: 4.3/4.3.9

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

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

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:		
Developer		Date
Validated by:		
Validator (See JPM Validation Checklist, Attachment 1)		Date
Approved by:		
Training Supervisor		Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-04.04.02-005 (Independent Verification of RHR) Rev. 0

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- The BOP operator is performing a shutdown of Torus Cooling on RHR Loop A IAW B.03.04-05 (RHR System).
- You are an extra operator on shift.

INITIATING CUES:

- The CRS directs you to perform an independent verification of the shutdown lineup IAW B.03.04-05.F.3 (Torus Cooling Mode – Shutdown) Step 5.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-04.04.02-005 (Independent Verification RHR) Rev. 0

JPM PERFORMANCE INFORMATION**Required Materials:** Full Scope simulator**General References:** B.03.04-05 (RHR System)**Task Standards:** Independently Verify Torus Cooling Shutdown lineup**Start Time:** _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1 Critical: N	Procedure Step 5.a Independently VERIFY the following valve positions: a. MO-2008 CLOSED.
Standard:	Operator observes MO-2008 is closed.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2 Critical: N	Procedure Step 5.b Independently VERIFY the following valve positions: b. MO-2006 CLOSED.
Standard:	Operator observes MO-2006 is closed.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

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JPM-4 AWI-04.04.02-005 (Independent Verification RHR) Rev. 0

Performance Step: 3 Critical: Y	Procedure Step 5.c Independently VERIFY the following valve positions: c. CV-1994 CLOSED
Standard:	Operator observes MO-1994 is OPEN and reports out of position valve
Evaluator Cue:	Acknowledge the out of position valve and state that you will initiate an investigation. Tell examinee to continue with IV.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical: N	Procedure Step 5.d Independently VERIFY the following valve positions: d. CV-1996 CLOSED.
Standard:	Operator observes CV-1996 is CLOSED
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical: Y	Procedure Step 5.e Independently VERIFY the following valve positions: e. MO-2002 is OPEN.
Standard:	Operator observes MO-2002 is in an intermediate position. Open valve when directed
Evaluator Cue:	Acknowledge the out of position valve and state the following: <ul style="list-style-type: none">• An investigation is complete• The BOP recalled repositioning the switch too soon• They are to fully OPEN the valve.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-04.04.02-005 (Independent Verification RHR) Rev. 0

Terminating Cues: When operator repositions MO2002, state that the JPM is complete.**Stop Time:** _____**Historical Record:**

New create for the 2016 ILT NRC Exam.

Simulator Setup (as required):**SIMULATOR SETUP:**

- Initialize to any Mode 1 IC where RHR Loop A is in standby
- Fail CV-1994 in the OPEN position
- Position MO-2002 to an intermediate position and place control switch to STOP.

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-04.04.02-005 (Independent Verification RHR) Rev. 0

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-04.04.02-005 (Independent Verification RHR) Rev. 0

ATTACHMENT 2**JPM Number:** JPM-4 AWI-04.04.02-005**JPM Title:** Independent Verification of RHR**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- The BOP operator is performing a shutdown of Torus Cooling on RHR Loop A IAW B.03.04-05 (RHR System).
- You are an extra operator on shift.

INITIATING CUES:

- The CRS directs you to perform an independent verification of the shutdown lineup IAW B.03.04-05.F.3 (Torus Cooling Mode – Shutdown) Step 5.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: ELECTRICAL SAFETY REQUIREMENTS FOR RACKING A 4160 KV BREAKER

JPM NUMBER: JPM-FP-MA-ES-01-001 **REV.** 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): NL262.104
Rack Out a 4 KV Circuit Breaker

K/A NUMBERS: 2.1.26 **Rating: SRO/RO:** 3.6/3.4

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☒ Perform: ☐

EVALUATION LOCATION: In-Plant: ☒ Control Room: ☐
 Simulator: ☐ Other: ☐
 Lab: ☐

Time for Completion: 20 Minutes **Time Critical:** No

Alternate Path: No

TASK APPLICABILITY: SRO: ☐ RO: ☒ NLO ☒

Additional site-specific signatures may be added as desired.

Developed by:	
Developer	Date
Validated by:	
Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	
Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- The Plant is operating at 100%.
- 11 Core Spray pump has been removed from service for testing of breaker 152-505.
- Breaker 152-505 is to be Racked OUT to the TEST position

INITIATING CUES:

- IAW B.09.06-05.G.1 (Racking Out 4 kV Breakers) and FP-MA-ES-01 (Electrical Safety):
 - Identify and Locate the required **POSTINGS** for racking out a 4 kV breaker
 - Identify and Locate the required **PERSONAL PROTECTIVE EQUIPMENT (PPE)** for racking out a 4 kV breaker
 - Discuss the process/procedures for verifying that the PPE is acceptable for use.

EVALUATOR NOTE: This ADMIN JPM should be performed outside the Lower 4KV Room in the plant to allow the examinee to locate and identify the appropriate PPE.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev.

0

JPM PERFORMANCE INFORMATION

Required Materials: Copies of the following:
 B.09.06-05.G.1 (Racking Out A 4 kV Breaker)
 FP-MA-ES-01 (Electrical Safety)

General References: B.09.06-05 (4.16 KV Station Auxiliary – System Operation)
 FP-MA-ES-01 (Electrical Safety)

Task Standards: Examinee identifies proper electrical safety practices for racking out a 4.16 KV breaker.

Start Time: _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Qualification Program Examinations).

Performance Step: 1	Reviews procedures B.09.06-05 (4.16 KV Station Auxiliary – System Operation), section G.1 PART A and FP-MA-ES-01 (Electrical Safety).
Critical: N	
Standard:	Operator reviews procedures.
Evaluator Cue:	Provide a copy of section G.1 of procedure B.09.06-05 and a copy of the fleet electrical safety manual FP-MA-ES-01.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

Performance Step: 2	B.09.06-05.G.1 (Racking Out A 4 kV Breaker) Procedure Prerequisite
Critical: Y	"Switching in Progress" warning sign posted outside affected 4 kV room.
Standard:	Identifies that a "Switching in Progress" warning sign must be posted on the 4 kV Room Door
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	

Performance Step: 3	B.09.06-05.G.1 (Racking Out A 4 kV Breaker) Procedure step 5.
Critical: Y	Identifies protective clothing IAW procedure FP-MA-ES-01 (Electrical Safety).
Standard:	<u>ATTACHMENT 8</u> <ul style="list-style-type: none"> Class 1 rubber gloves at a minimum (CRITICAL) <u>ATTACHMENT 4 (SWITCHGEAR 750V to 36 kV)</u> <ul style="list-style-type: none"> Determines racking breakers is Hazard/Risk Category 4(NOT CRITICAL) <u>ATTACHMENT 3 (ARC PROTECTIVE APPAREL)</u> <ul style="list-style-type: none"> Identifies the following minimum protective equipment: (CRITICAL) <ul style="list-style-type: none"> Short sleeve shirt natural fiber (Normal Apparel) Long pants natural fiber (Normal Apparel) Category 4 flash suit with pants Hard hat (part of flash hood) Safety glasses with side shields Hearing protection (plugs in ear canal) Category 4 flash hood Arc/Voltage rated gloves Leather Gloves
Evaluator Cue:	None.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

Performance Step: 4	FP-MA-ES-01 (Electrical Safety)
Critical: N	Discusses inspection/testing of PPE specified in FP-MA-ES-01 (Electrical Safety).
Standard:	<ul style="list-style-type: none"> • Discusses the minimum inspection/testing for each of the following: <ul style="list-style-type: none"> ○ Category 4 flash suit with pants (visual inspection – no holes/tears; uncontaminated by oil, grease, flammable, or combustible liquids) ○ Safety glasses with side shields (non-metallic) ○ Category 4 flash hood (visual inspection – no holes/tears; uncontaminated by oil, grease, flammable, or combustible liquids; face shield unobstructed by scratches or other damage) ○ Arc/Voltage rated gloves (visual inspection – general condition and voltage test date; air-test) ○ Leather Gloves visual inspection – no holes/tears; uncontaminated by oil, grease, flammable, or combustible liquids)
Evaluator Cue:	None.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: **Terminate the JPM when the examinee has identified the apparel they would don.**

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

Historical Record:

- New Electrical Safety RO Admin JPM for the 2016 ILT NRC Exam

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

Simulator Setup (as required):

1. This JPM can be run from the following Standard (Specific) IC sets:

- IC-* (IC-*), (IC Conditions Summary)

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM- FP-MA-ES-01-001 (Electrical Safety Requirements for Racking A 4160 KV Breaker) Rev. 0

ATTACHMENT 2**JPM Number:** JPM-FP-MA-ES-01-001**JPM Title:** Electrical Safety Requirements for Racking A 4160 KV Breaker**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- The Plant is operating at 100%.
- 11 Core Spray pump has been removed from service for testing of breaker 152-505.
- Breaker 152-505 is to be Racked OUT to the TEST position

INITIATING CUES:

- IAW B.09.06-05.G.1 (Racking Out 4 kV Breakers) and FP-MA-ES-01 (Electrical Safety):
 - Identify and Locate the required **POSTINGS** for racking out a 4 kV breaker
 - Identify and Locate the required **PERSONAL PROTECTIVE EQUIPMENT (PPE)** for racking out a 4 kV breaker
 - Discuss the process/procedures for verifying that the PPE is acceptable for use.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: EXPECTED DOSE DETERMINATION TO INSPECT EQUIPMENT

JPM NUMBER: JPM-4 AWI-08.04.01-006 **REV.** 4

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR299.189
Adhere to the Radiation Protection Plan as required by Monticello Tech Specs and 10CFR20 (4AWI-08.04.01).
NL299.128 Describe Radiological Work Control process

K/A NUMBERS: Generic 2.3.4 Rating: SRO/RO: 3.7/3.2

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
Simulator: ☐ Other: ☒
Lab: ☐

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☒

Additional site-specific signatures may be added as desired.

Developed by:		
	Developer	Date
Validated by:		
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- Radiation Protection has informed the Control Room that a Hot Area Inspection is required for a possible steam leak exists in the Steam Chase.
- The CRS has chosen you to perform this inspection.
- The inspection is projected to take 30 minutes.
- Your current annual exposure is 1800 mrem.

INITIATING CUES (IF APPLICABLE):

- Determine what your expected dose will be for the inspection.
- Determine what your annual exposure will be after completing the inspection.
- Determine if any additional permission would be needed to make the inspection.

EVALUATOR NOTE: The Survey Map for the Steam Chase is provided on the last page of this JPM. Do NOT provide this to the examinee until after Performance Step 1 of the JPM is complete.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

JPM PERFORMANCE INFORMATION

Required Materials: - 935' Survey Map of the Steam Chase
 • Provided on turnover sheet

General References: 4 AWI-08.04.01

Task Standards: Calculate Expected Dose to Inspect Equipment

Start Time: _____

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

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1	Reviews the survey map for the Steam Chase area.
Critical: N	
Standard:	Tells evaluator where survey maps are located
Evaluator Cue:	Ask Examinee where Survey Maps are located and then provide examinee with the Steam Chase Survey Map on the last page of this JPM.
Evaluator Note:	Survey maps are located on the basement level of the administration building in the same area where personnel obtain their Electronic Dosimeters. Other locations are available, but this is the main location.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2	Determines general area dose rates in the Steam Chase.
Critical: N	
Standard:	General area dose rates are determined to be 500 - 2000 mrem/hr.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

Performance Step: 3	Calculate expected dose for the inspection.
Critical: Y	
Standard:	<ul style="list-style-type: none"> Determines <u>minimum</u> total dose for the inspection is: <ul style="list-style-type: none"> 500 mrem/hr x 0.5 hr = 250 mrem. Determines <u>maximum</u> total dose for the inspection is: <ul style="list-style-type: none"> 2000 mrem/hr x 0.5 hr = 1000 mrem.
Evaluate Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4	Calculate the total annual exposure after completion of the inspection.
Critical: Y	
Standard:	<ol style="list-style-type: none"> Determines total <u>minimum</u> annual exposure after the inspection: 1800 mrem + 250 mrem = 2050 mrem Determines total <u>maximum</u> annual exposure after the inspection: 1800 mrem + 1000 mrem = 2800 mrem
Evaluate Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5	Determines that the total annual exposure after completion of the inspection is greater than the administrative dose limit.
Critical: N	
Standard:	Determines that the total annual exposure after completion of the inspection is greater than the administrative dose limit of 2000 mrem as stated in 4-AWI-08.04.01 (up to 40% of 10 CFR 20 limit without First Line Supervisor approval).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

Performance Step: 6	Determines that a dose extension is needed and notifies the CRS that their permission will be required to exceed the 2000 mrem limit.
Critical: Y	
Standard:	<ol style="list-style-type: none"> 1. Determines that a dose extension is needed. 2. Contacts the CRS to get permission to exceed 2000 mrem.
Evaluator Cue:	State as the CRS that you will complete the necessary paperwork and the he can perform the needed inspection.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED
Critical: N	
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	Terminate JPM.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: Operator informs the evaluator that the task is complete

Stop Time: _____

Historical Record:

Updated for 2016 ILT NRC Exam

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-006 (Expected Dose Determination To Inspect Equipment) Rev. 4

ATTACHMENT 2**JPM Number:** JPM-4 AWI-08.04.01-006**JPM Title:** Expected Dose Determination to Inspect Equipment**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Radiation Protection has informed the Control Room that a Hot Area Inspection is required for a possible steam leak exists in the Steam Chase.
- The CRS has chosen you to perform this inspection.
- The inspection is projected to take 30 minutes.
- Your current annual exposure is 1800 mrem.

INITIATING CUES (IF APPLICABLE):

- Determine what your expected dose will be for the inspection.
- Determine what your annual exposure will be after completing the inspection.
- Determine if any additional permission would be needed to make the inspection.

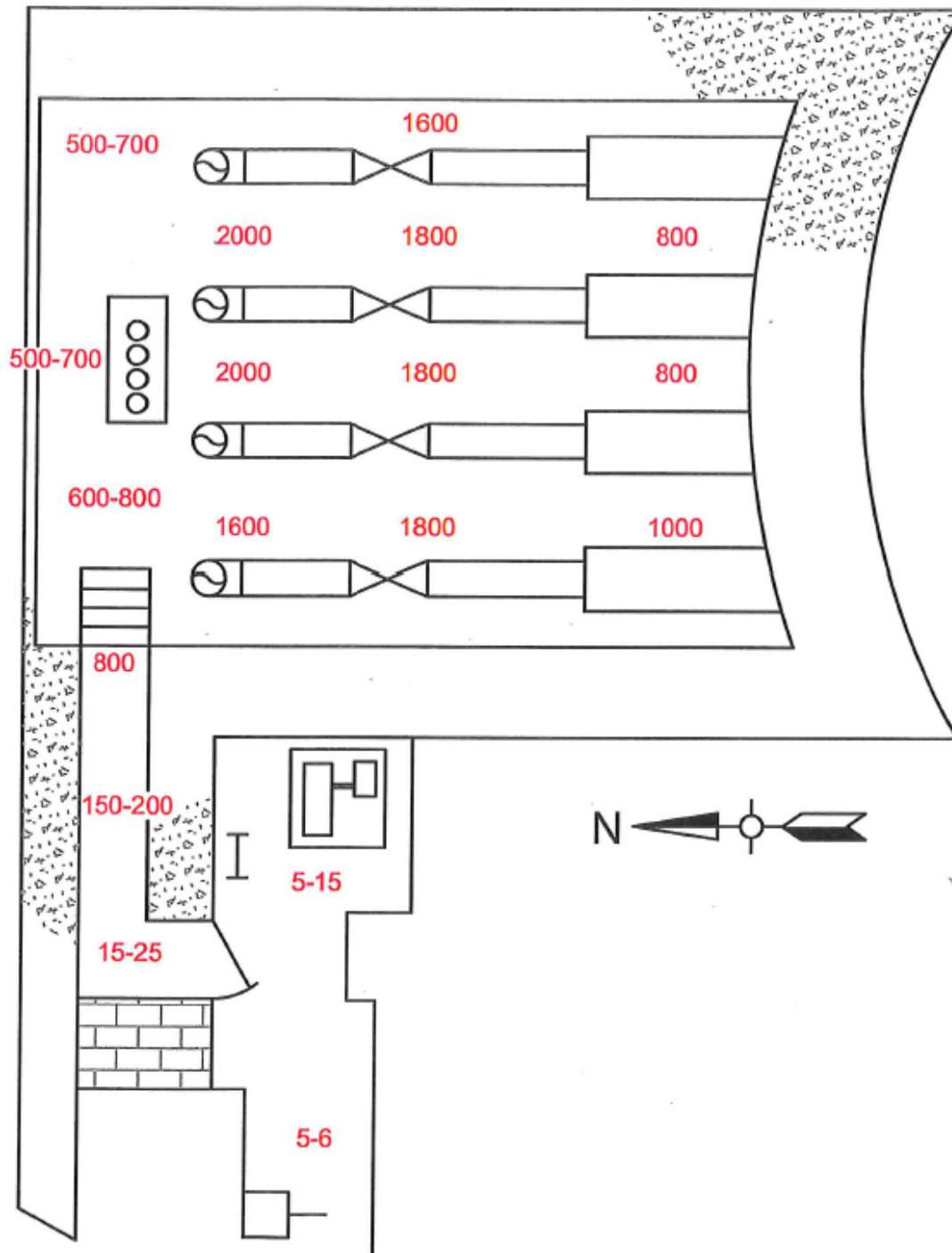
Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

STEAM CHASE REACTOR BUILDING - ELEVATION 935'-0"

HIGHER THAN SURROUNDING GENERAL AREA DOSE RATES
(ALL DOSE RATES ARE IN MREM/HR)
PLANT OPERATING - HWC \leq 8 SCFM



Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: PRE-JOB BRIEF

JPM NUMBER: JPM-FP-PA-HU-06-001 **REV.** 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): SS299.297
Conduct Pre-Job Briefings

K/A NUMBERS: 2.1.1
Conduct of operations **Rating: SRO/RO:** 4.2/3.8

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
Simulator: ☐ Other: ☒
Lab: ☐

Time for Completion: 10 Minutes **Time Critical:** No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	
Developer	Date
Validated by:	
Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	
Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- Plant is at rated conditions.
- OSP-NIP-0590 (APRM Heat Balance Calibration) is scheduled to be performed.

INITIATING CUES (IF APPLICABLE):

- You are the control room supervisor and designated as the Briefing Leader.
- Using the Online Work Schedule, FP-PA-HU-06 (Pre-job Briefs and Post Job Critiques) and QF0465 (Pre-Job Brief Checklist), determine the risk level and minimum required Pre-Job Brief Level.
- **INFORM EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

EVALUATOR NOTE: Provide examinee copies of the following:

- OSP-NIP-0590 (APRM Heat Balance Calibration)
- FP-PA-HU-06 (Pre-job Briefs and Post Job Critiques)
- QF0465 (Pre-Job Brief Checklist)
- Online Work Schedule

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

JPM PERFORMANCE INFORMATION

Required Materials:

1. FP-PA-HU-06 (Pre-Job Briefs and Post-Job Critiques)
2. QF0465 (Pre-Job Brief Checklist)
3. Copy of OSP-NIP-0590 and copy of the On-Line Work schedule with the test shown as a risk rating of NM (Nuclear Risk Medium)

General References:

1. OSP-NIP-0590 (APRM Heat Balance Calibration)

Task Standards: FP-PA-HU-06 (Pre-Job Briefs and Post Job Critiques)

Start Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1 Critical N	Trainee refers to FP-PA-HU-06 Step 5.1.1 The Briefing Leader screens the planned work activity to determine the appropriate level of briefing warranted for the task or activity (Refer to Attachment 1, “Pre-Job Brief Process”).
Standard:	Refers to Attachment 1 – Pre-Job Brief Process
Evaluator Note:	None
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____
Performance Step: 2 Critical Y	FP-PA-HU-06 Attachment 1 Pre-Job Brief Process –determines risk based off entry block of flow chart
Standard:	Determines task is medium risk based off the Online Work Schedule or FP-PA-HU-06 4.15 Risk definitions.
Evaluator Note:	None
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____
Performance Step: 3 Critical N	FP-PA-HU-06 Attachment 1 Pre-Job Brief Process flow chart “Normal Risk” block and “Medium Risk” blocks
Standard:	Trainee follows flow chart and evaluates “Normal Risk” block as NO and “Medium Risk” block as YES
Evaluator Note:	None
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

Performance Step: 4 Critical N	FP-PA-HU-06 Attachment 1 Pre-Job Brief Process flow chart "Simple" block
Standard:	Trainee determines task is Simple as defined in HU-PA-HU-06 4.2 Complexity Simple – A task that is typically controlled by one or two individuals and does not involve interaction with other work groups. A single procedure is used to direct the activity.
Evaluator Note:	None.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____
Performance Step: 5 Critical Y	FP-PA-HU-06 Attachment 1 Pre-Job Brief Process – determines minimum level of Pre-Job brief required
Standard:	Trainee follows flow chart and determines a standard pre-job brief is the minimum level
Evaluator Note:	If desired, you may ask the examinee to discuss the use of the PJB checklist (QF0465)
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: Once the risk and PJB level have been determined, terminate the JPM.

Stop Time: _____

Historical Record: New create for the 2016 ILT NRC Exam.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-FP-PA-HU-06-001 (Pre-Job Brief) Rev. 0

ATTACHMENT 2**JPM Number:** JPM-FP-PA-HU-06-001**JPM Title:** Pre-Job Brief**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Plant is at rated conditions.
- OSP-NIP-0590 (APRM Heat Balance Calibration) is scheduled to be performed.

INITIATING CUES (IF APPLICABLE):

- You are the control room supervisor and designated as the Briefing Leader.
- Using the Online Work Schedule, FP-PA-HU-06 (Pre-job Briefs and Post Job Critiques) and QF0465 (Pre-Job Brief Checklist), determine the risk level and minimum required Pre-Job Brief Level.
- **INFORM EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



Xcel Energy™

JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: SRO - NRC LICENSE MAINTENANCE RESPONSIBILITIES

JPM NUMBER: JPM-OWI-01.08-002 **REV.** 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): SS299.296
Implement the instructions regarding maintenance of active NRC licenses

K/A NUMBERS: 2.1 2.1.4 Rating: SRO/RO: 3.8 / 3.3

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☐ Other: ☒
 Lab: ☐

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:		
	Developer	Date
Validated by:		
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM Number: JPM-OWI-01.08-002JPM Title: SRO - NRC License Maintenance Responsibilities

Examinee: _____ Evaluator: _____

Job Title: _____ Date: _____

Start Time _____ Finish Time _____

PERFORMANCE RESULTS:

SAT: ☐UNSAT: ☐

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM BRIEFING/TURNOVER

Provide briefing/turnover in accordance with applicable program description and/or training procedure.

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

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

INITIAL CONDITIONS:

- You are a Licensed Senior Reactor Operator.
- You are qualified to stand the following watches:
 - Shift Manager (SM)
 - Control Room Supervisor (CRS)
 - Shift Technical Advisor (STA)
 - Work Execution Center SRO (WEC-SRO)
- You are current in Licensed Operator Requalification training and your medical status is acceptable.
- The dates, shift times and positions are provided for the watches you stood during the 2nd Quarter.

INITIATING CUES:

- Determine if you have met the requirements for maintaining your SRO license active.

Date	Shift	Position
4/1	Days 0700-1900	WEC-SRO
4/2	Days 0700-1900	WEC-SRO
4/3	Days 0700-1900	WEC-SRO
4/6	Nights 1900-0700	SM
4/7	Nights 1900-0700	WEC-SRO
4/8	Nights 1900-0700	WEC-SRO
4/9	Nights 1900-0700	WEC-SRO
5/2	Days 0700-1900	WEC-SRO
5/3	Days 0700-1900	SM
5/4	Days 0700-1900	WEC-SRO
5/5	Relief 0700-1500	CRS
5/6	Days 0700-1900	WEC-SRO
5/10	Nights 1900-0700	WEC-SRO
5/12	Nights 1900-0700	WEC-SRO
5/13	Nights 1900-0700	WEC-SRO
5/20	Days 0700-1900	SM
5/21	Days 0700-1900	SM
5/22	Days 0700-1900	WEC-SRO
5/23	Days 0700-1900	WEC-SRO
6/4	Days 0700-1900	WEC-SRO
6/5	Days 0700-1900	STA
6/6	Days 0700-1900	WEC-SRO
6/24	Nights 1900-0700	WEC-SRO
6/30	Nights 1900-0700	WEC-SRO

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM PERFORMANCE INFORMATION

- Required Materials:**
- OWI-01.08 (NRC License Maintenance Responsibilities)
- General References:**
- OWI-01.08 (NRC License Maintenance Responsibilities)
 - 2142 (Monticello Active NRC SRO/RO Qualification Checklist)
 - 10CFR55.53 (Conditions of License)
- Task Standards:**
- Determine that the minimum number of required licensed watches is NOT met and their NRC RO license is inactive.

Start Time: _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1	Locate and review controlled copy of Procedure OWI-01.08 (NRC License Maintenance Responsibilities).
Critical: N	
Standard:	Obtains and reviews correct procedure.
Evaluator Cue:	If controlled copy is not available for the performance of the JPM, then provide the examinee with a copy of OWI-01.08.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____ _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Performance Step: 2	Procedure Step 4.2.2.c
Critical: N	
	<p>Maintaining an NRC license active requires the following:</p> <ul style="list-style-type: none"> • Standing the required number of watches as the Licensed Operator on record during each calendar quarter.
Standard:	<ul style="list-style-type: none"> • Reviews this general requirement
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	<hr/> <hr/>

Performance Step: 3	Procedure Step 4.2.4.
Critical: Y	
	<p>Monticello's Technical Specifications requires two SRO and two RO Licensed Operators on shift during routine power operations. Credit for license maintenance is granted when an Operator fills one of these Tech Spec required positions. The Shift Manager, Control Room Supervisor, Nuclear Lead Plant Equipment and Reactor Operator (NLPE&RO) and the Nuclear Plant Equipment and Reactor Operator (NPE&RO) designated as Operator at the Controls (OATC) are considered as licensed duty positions for the purpose of license maintenance credit.</p>
Standard:	Determines that ONLY the SM or CRS positions can be counted toward maintenance of their active NRC license.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	<hr/> <hr/>

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Performance Step: 4	Procedure Step 4.2.6
Critical: Y	To maintain active license status, each licensee SHALL actively perform the functions of the OATC (NPE&RO), Nuclear Lead Plant Equipment and Reactor Operator (NLPE&RO) or Senior Reactor Operator (e.g. Control Room Supervisor or Shift Manager) a minimum of five 12 hour shifts per calendar quarter.
Standard:	<ul style="list-style-type: none"> • Determines that a total of five watches in the required positions of SM or CRS were performed; however, recognizes that the May 5th watch was only an eight hour relief shift. • Determines that the minimum of five twelve hour shifts in a required licensed position has not been met to maintain an active NRC license.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____ _____

Terminating Cues: Once the determination has been made whether the minimum number of watches has **been** / **NOT been** met then state JPM complete.

Stop Time: _____

Historical Record:

- Procedural updates for the 2015 ILT NRC Exam.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

TURNOVER SHEET

INITIAL CONDITIONS:

- You are a Licensed Senior Reactor Operator.
- You are qualified to stand the following watches:
 - Shift Manager (SM)
 - Control Room Supervisor (CRS)
 - Shift Technical Advisor (STA)
 - Work Execution Center SRO (WEC-SRO)
- You are current in Licensed Operator Requalification training and your medical status is acceptable.
- The dates, shift times and positions are provided for the watches you stood during the 2nd Quarter.

INITIATING CUES:

- Determine if you have met the requirements for maintaining your SRO license active.

Date	Shift	Position
4/1	Days 0700-1900	WEC-SRO
4/2	Days 0700-1900	WEC-SRO
4/3	Days 0700-1900	WEC-SRO
4/6	Nights 1900-0700	SM
4/7	Nights 1900-0700	WEC-SRO
4/8	Nights 1900-0700	WEC-SRO
4/9	Nights 1900-0700	WEC-SRO
5/2	Days 0700-1900	WEC-SRO
5/3	Days 0700-1900	SM
5/4	Days 0700-1900	WEC-SRO
5/5	Relief 0700-1500	CRS
5/6	Days 0700-1900	WEC-SRO
5/10	Nights 1900-0700	WEC-SRO
5/12	Nights 1900-0700	WEC-SRO
5/13	Nights 1900-0700	WEC-SRO
5/20	Days 0700-1900	SM
5/21	Days 0700-1900	SM
5/22	Days 0700-1900	WEC-SRO
5/23	Days 0700-1900	WEC-SRO
6/4	Days 0700-1900	WEC-SRO
6/5	Days 0700-1900	STA
6/6	Days 0700-1900	WEC-SRO
6/24	Nights 1900-0700	WEC-SRO
6/30	Nights 1900-0700	WEC-SRO

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: LCO 3.0.9 APPLICATION DETERMINATION – BLOCKED OPEN HELB DOOR

JPM NUMBER: JPM-OWI-02.07-002 **REV.** 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): SS299.340
Implement Operations Work Control

K/A NUMBERS: 2.2 2.2.40 Rating: SRO/RO: 4.7 / 3.4

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☐ Other: ☒
 Lab: ☐

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	
Developer	Date
Validated by:	
Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	
Training Supervisor	Date

JPM-OWI-02.07-002 (LCO 3.0.9 Application Determination) Rev. 0

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- Plant is at 100% power and you are a duty SRO.
- HELB Door-479 (TRB Bldg 911' North Corridor) is currently **blocked open** and can **NOT** be closed.
- Door-479 is **NOT a fire** door but if blocked OPEN could require Tech Spec related SSCs located in the Div 1 and Div 2 4KV Rooms to be INOPERABLE

INITIATING CUES:

- Evaluate Technical Specifications and determine if LCO 3.0.9 can be applied IAW OWI-02.07 (Operations Work Control) for Door-479 being blocked OPEN.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-001 (LCO 3.0.9 Application Determination) Rev. 3

JPM PERFORMANCE INFORMATION

- Required Materials:** A standard Operation Manual book cart containing the following:
- OWIs
 - AWIs
 - Technical Specifications
- General References:**
- OWI-02.07 (Operations Work Control)
 - 4 AWI-08.01.03 (HELB Practices)
 - Technical Specifications
- Task Standards:** Determination is made that LCO 3.0.9 cannot be applied for Door-479 being blocked OPEN.

Start Time: _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1	Locate and review controlled copy of Procedures OWI-02.07 (Operations Work Control) & 4 AWI-08.01.03 (HELB Practices).
Critical: N	
Standard:	<ul style="list-style-type: none"> • Obtains and reviews correct procedures. • May also obtain and review LCO 3.0.9 of the Technical Specifications.
Evaluator Cue:	If a book cart is not available, PROVIDE copies of TS 3.0.9, OWI-02.07 & 4 AWI-08.01.03.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-001 (LCO 3.0.9 Application Determination) Rev. 3

Performance Step: 2	OWI-02.07 Procedure Step 4.3.1.F.2.
Critical: N	
	Tech Spec ACTION Requirements
	<p>NOTE: Under limited conditions, Tech Spec LCO 3.0.9 relieves the requirement for barriers to perform their related support function for up to 30 days, before declaring the supported system inoperable. Figure 5.3 “LCO 3.0.9 Applicability Determination” is used to determine the acceptability of using the degraded barrier allowance.</p> <p>Perform Figure 5.3 “LCO 3.0.9 Applicability Determination” when an SSC is to be declared inoperable solely due to a failed supporting barrier, and it is desired to delay the required action associated with the SSC inoperability. If the Applicability Determination permits use of LCO 3.0.9, then a PRA risk assessment must be completed to determine the allowed completion time (TC) before declaring the supported system LCO not met.</p>
Standard:	Refers to Figure 5.3 (LCO 3.0.9 Applicability Determination)
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3	OWI-02.07 Figure 5.3, Step 1.
Critical: N	
	Identify the initiating event category for the degraded barrier(s).
Standard:	<ul style="list-style-type: none"> Based on the Initial Conditions, determines the initiating event category for this barrier is internal flooding and/or HELB. May refer to 4 AWI-08.01.03, Figure 5.1 (Consequences of HELB Doors Out of Position) for clarification of Door-479 requirements and impact on Div. 1 and Div. 2 equipment but use of this procedure is NOT REQUIRED.
Evaluator Note:	Instructions for using Figure 5.3 are on the proceeding procedure pages.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-001 (LCO 3.0.9 Application Determination) Rev. 3

Performance Step: 4	OWI-02.07 Figure 5.3, Step 2.
Critical: N	Is the barrier(s) part of a ventilation system, a fire barrier, protecting only non-Tech Spec Systems, a snubber, or not rendering a Tech Spec System inoperable?
Standard:	<ul style="list-style-type: none"> Answers this question NO. <p>Non-Critical Portion:</p> <ul style="list-style-type: none"> Determines the following apply to Door-479: <ul style="list-style-type: none"> NOT part of a ventilation system. NOT a fire barrier. Protects Tech Spec systems. NOT a snubber. Renders associated Tech Spec SSCs located in the Div 1 and Div 2 4KV Rooms INOPERABLE.
Evaluator Cue:	None
Evaluator Note:	Operator may answer questions without referring to OWI-02.07, OWIs are Information Use Procedures and are not required to be referenced.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5	OWI-02.07 Figure 5.3, Step 3.
Critical: Y	Does the degraded barrier (or barriers) protect only one division of a two division system?
Standard:	<ul style="list-style-type: none"> Answers this question NO. Determines Door-479 protects both divisions of 4KV.
Evaluator Cue:	None
Evaluator Note:	Operator may answer questions without referring to OWI-02.07, OWIs are Information Use Procedures and are not required to be referenced.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-001 (LCO 3.0.9 Application Determination) Rev. 3

Performance Step: 6	OWI-02.07 Figure 5.3, Step 4
Critical: N	
	Does the degraded barrier protect a single division system?
Standard:	<ul style="list-style-type: none"> Determines No, Door 479 protects 4KV which is a 2 division system
Evaluator Cue:	None.
Evaluator Note:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7	OWI-02.07 Figure 5.3, Step 5
Critical: N	
	NOTE: The following question must be asked for each degraded barrier: Does the barrier protect both divisions of a two-division system?
Standard:	<ul style="list-style-type: none"> Determines Yes, Door 479 protects both divisions of a two division system
Evaluator Cue:	None.
Evaluator Note:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8	OWI-02.07 Figure 5.3, Outcome
Critical: Y	
Standard:	<ul style="list-style-type: none"> Determines LCO3.09 allowance is NOT permitted
Evaluator Cue:	None.
Evaluator Note:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____ _____

Terminating Cues: Determination is made that LCO 3.0.9 **CANNOT** be used for Door-479 HELB barrier.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-001 (LCO 3.0.9 Application Determination) Rev. 3

Historical Record:

Created NEW for 2016 ILT NRC Exam

Simulator Setup (as required):

1. This JPM can be run from the following Standard (Specific) IC sets:

- IC-* (IC-*), (IC Conditions Summary)

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-002 (LCO 3.0.9 Application Determination) Rev. 0

ATTACHMENT 1

JPM-OWI-02.07-002 (LCO 3.0.9 Application Determination) Rev. 0
JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

ATTACHMENT 2

JPM Number: JPM-OWI-02.07-002

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-OWI-02.07-002 (LCO 3.0.9 Application Determination) Rev. 0

JPM Title: LCO 3.0.9 Application Determination

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: ☐UNSAT: ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Plant is at 100% power and you are a duty SRO.
- HELB Door-479 (TRB Bldg 911' North Corridor) is currently **blocked open** and can **NOT** be closed.
- Door-479 is **NOT a fire** door but if blocked OPEN could require Tech Spec related SSCs located in the Div 1 and Div 2 4KV Rooms to be INOPERABLE

INITIATING CUES:

- Evaluate Technical Specifications and determine if LCO 3.0.9 can be applied IAW OWI-02.07 (Operations Work Control) for Door-479 being blocked OPEN.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: AUTHORIZATION TO EXCEED ADMINISTRATIVE DOSE GUIDELINES

JPM NUMBER: JPM-4 AWI-08.04.01-008 **REV.** 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR299.189
Adhere to the Radiation Protection Plan as required by Monticello Tech Specs and 10CFR20 (4AWI-08.04.01).

K/A NUMBERS: Generic 2.3.4 Rating: SRO/RO: 3.7/3.2

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☐ Other: ☒
 Lab: ☐

Time for Completion: 15 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	
Developer	Date
Validated by:	
Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	
Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- A Hot Area Inspection is required for a possible steam leak exists in the Steam Chase.
- You are the CRS
- The inspection is projected to take 30 minutes.
- The operator you chose to perform the task has a current annual exposure of 1800 mrem.

INITIATING CUES (IF APPLICABLE):

- Determine what your operator's expected dose will be for the inspection.
- Determine what your operator's annual exposure will be after completing the inspection.
- Using CD 9.2 (RADIATION DOSE GUIDELINES), determine the following:
 - What additional permissions are required to perform this inspection
 - How the additional permission and dose extension is documented on-site

EVALUATOR NOTE: The Survey Map for the Steam Chase is provided on the last page of this JPM. Do NOT provide this to the examinee until after Performance Step 1 of the JPM is complete.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

JPM PERFORMANCE INFORMATION

Required Materials: - 935' Survey Map of the Steam Chase
 • Provided on turnover sheet

General References: 4 AWI-08.04.01 (Radiation Protection Plan)
 CD 9.2 (Radiation Dose Guidelines)

Task Standards: Calculate Expected Dose to Inspect Equipment

Start Time: _____

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

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1	Reviews the survey map for the Steam Chase area.
Critical: N	
Standard:	Tells evaluator where survey maps are located
Evaluator Cue:	Ask Examinee where Survey Maps are located and then provide examinee with the Steam Chase Survey Map on the last page of this JPM.
Evaluator Note:	Survey maps are located on the basement level of the administration building in the same area where personnel obtain their Electronic Dosimeters. Other locations are available, but this is the main location.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2	Determines general area dose rates in the Steam Chase.
Critical: N	
Standard:	General area dose rates are determined to be 500 - 2000 mrem/hr.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

Performance Step: 3 Calculate expected dose for the inspection.**Critical: Y****Standard:**

- Determines minimum total dose for the inspection is:
 - $500 \text{ mrem/hr} \times 0.5 \text{ hr} = \mathbf{250 \text{ mrem}}$.
- Determines maximum total dose for the inspection is:
 - $2000 \text{ mrem/hr} \times 0.5 \text{ hr} = \mathbf{1000 \text{ mrem}}$.

Evaluate Cue: None**Performance:** **SATISFACTORY** ☐ **UNSATISFACTORY** ☐**Comments:** _____**Performance Step: 4** Calculate the total annual exposure after completion of the inspection.**Critical: Y****Standard:**

1. Determines total minimum annual exposure after the inspection:
 $1800 \text{ mrem} + 250 \text{ mrem} = \mathbf{2050 \text{ mrem}}$
2. Determines total maximum annual exposure after the inspection:
 $1800 \text{ mrem} + 1000 \text{ mrem} = \mathbf{2800 \text{ mrem}}$

Evaluate Cue: None**Performance:** **SATISFACTORY** ☐ **UNSATISFACTORY** ☐**Comments:** _____**Performance Step: 5** Determines that the total annual exposure after completion of the inspection is greater than the administrative dose limit.**Critical: N****Standard:**

Determines that the total annual exposure after completion of the inspection is greater than the administrative dose limit of 2000 mrem as stated in CD 9.2 and 4-AWI-08.04.01 (up to 40% of 10 CFR 20 limit without First Line Supervisor approval).

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐**Comments:** _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

Performance Step: 6	Determines that a dose extension is needed and that as the CRS that they may approve the exposure over 2000 mrem.
Critical: Y	
Standard:	<ol style="list-style-type: none"> 1. Determines that a dose extension is needed. 2. Grants permission as CRS to exceed 2000 mrem.
Evaluator Cue:	None
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7	Determines that the dose extension is required to be entered in Action Tracking.
Critical: Y	
Standard:	Determines extension should be documented in Action Tracking (CAP) Passport to document the dose extension.
Evaluator Cue:	When examinee states that they would write a CAP, state that this action is complete.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED
Critical: N	
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	Terminate JPM.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: When examinee identifies that a CAP needs to be written, terminate the JPM.

Stop Time: _____

Historical Record:

New create for the 2016 ILT NRC Exam

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

Simulator Setup (as required):

1. This JPM can be run from the following Standard (Specific) IC sets:

- IC-* (IC-*), (IC Conditions Summary)

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-4 AWI-08.04.01-008 (Authorization To Exceed Administrative Dose Guidelines) Rev. 0

ATTACHMENT 2**JPM Number:** JPM-4 AWI-08.04.01-008**JPM Title:** Authorization To Exceed Administrative Dose Guidelines**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- A Hot Area Inspection is required for a possible steam leak exists in the Steam Chase.
- You are the CRS
- The inspection is projected to take 30 minutes.
- The operator available to perform the task has a current on file annual exposure of 1800 mrem.

INITIATING CUES (IF APPLICABLE):

- Determine what your operator's expected dose will be for the inspection.
- Determine what your operator's annual exposure will be after completing the inspection.
- Using CD 9.2 (RADIATION DOSE GUIDELINES), determine the following:
 - What additional permissions are required to perform this inspection
 - How the additional permission and dose extension is documented on-site

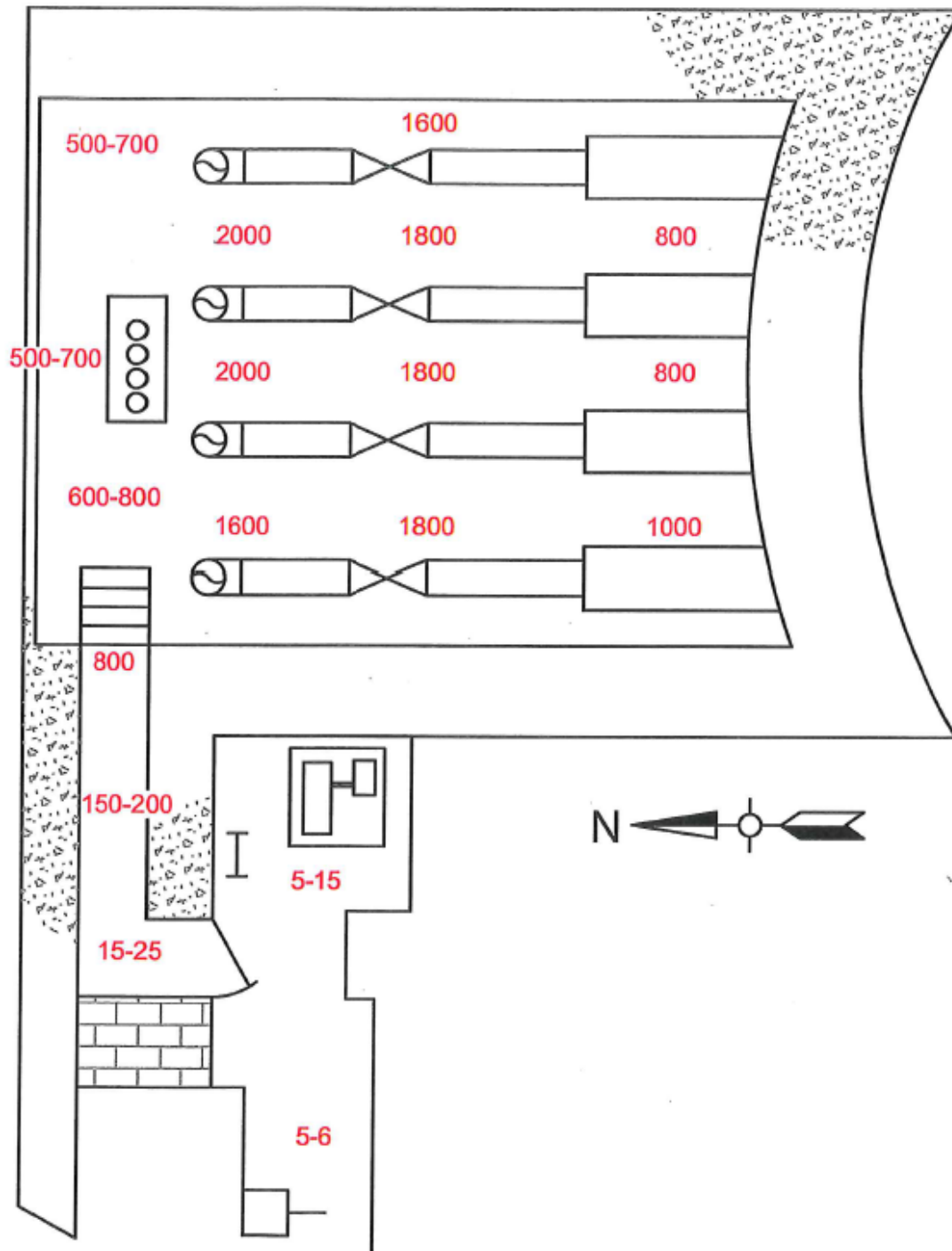
Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

STEAM CHASE REACTOR BUILDING - ELEVATION 935'-0"

HIGHER THAN SURROUNDING GENERAL AREA DOSE RATES
(ALL DOSE RATES ARE IN MREM/HR)
PLANT OPERATING - HWC \leq 8 SCFM



Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.



JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: EAL CLASSIFICATION

JPM NUMBER: A.2-101-002 **REV.** 11

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): SS304.103
Implement Monticello Emergency Plan during an Alert

K/A NUMBERS: 2.4.41 **Rating: SRO/RO:** 4.6/

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

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

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: 15 Minutes **Time Critical:** Yes

Alternate Path: No

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	
Developer	Date
Validated by:	
Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	
Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

JPM BRIEFING/TURNOVER

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

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

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

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

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

INITIAL CONDITIONS:

- The plant was operating at full power when the Drywell Equipment Drain Sump rate of change (ROC) high alarm comes in and Drywell pressure begins to rise.
- The crew discovers that there has been a failure of both No. 11 Recirc pump seals. No. 11 Recirc pump is removed from service and isolated, but leakage continues and the Drywell Equipment Drain Sump ROC has now reached 64 gpm.
- Drywell pressure reaches 2 psig and all required automatic actions are verified to have occurred.
- The applicable abnormal and EOP procedures have been entered.

INITIATING CUES (IF APPLICABLE):

- Determine the appropriate emergency classification.
- **THIS JPM IS TIME CRITICAL**
- **INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

INSTRUCTOR NOTE: Start time is when the initiating cue is acknowledged by the examinee. Stop time is when the examinee returns the JPM paper work to you or verbally declares the EAL.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

JPM PERFORMANCE INFORMATION**Required Materials:** A.2-101, EAL Chart**General References:** A.2-101, EAL Chart**Task Standards:** Evaluate plant conditions for proper EAL Classification**Start Time:** _____

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

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step **SHALL** result in failure of this JPM, per FP-T-SAT-73 (Licensed Operator Requalification Program Examinations).

Performance Step: 1	Locate Procedure A.2-101 (Classification Of Emergencies) and the EAL
Critical: N	Charts.
Standard:	Locates appropriate procedure and charts.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2	Duty Shift Manager (Interim Emergency Director) Instructions:
Critical: N	<p>A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification.</p> <p>1. Confirm that the indications have been verified using redundant or coincident indications.</p>
Standard:	Review and confirm given plant conditions.
Evaluator Cue:	When asked for verification, state that the initial conditions have been verified using redundant indications.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

Performance Step: 3 Critical: N	Duty Shift Manager (Interim Emergency Director) Instructions: A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification. 2. Refer to Form 5790-101-02 and identify any EALs applicable to the initiating condition.
Standard:	Refer to Form 5790-101-02 (EAL Chart)
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical: N	Duty Shift Manager (Interim Emergency Director) Instructions: A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification. 3. Locate the applicable EAL on Form 5790-101-02.
Standard:	Locates applicable EAL: EAL FA1.1
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical: Y	Duty Shift Manager (Interim Emergency Director) Instructions: A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification. 4. If multiple events and/or indications are involved, classify the emergency based on the event (or indication) that results in the highest (most conservative) emergency classification.
Standard:	Determines EAL FA1.1 is the applicable EAL.
Evaluator Note:	When the Operator declares the EAL, stop the Time Clock
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

EAL Declared: _____

Declaration Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

Performance Step: 6 Critical: N	Duty Shift Manager (Interim Emergency Director) Instructions: A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification. 5. Consider the effect that combinations of events have; that, if taken individually, would constitute a lower emergency classification but collectively may exceed the criteria for a higher classification.
Standard:	Determines EAL FA1.1 is the applicable EAL.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical: N	Duty Shift Manager (Interim Emergency Director) Instructions: A. Classification – When informed of plant parameters, radiological release levels or events which indicate that an emergency classification may be appropriate, evaluate the emergency classification. 6. Summon the Shift Emergency Communicator(s) to the Control Room via the Site PA system.
Standard:	Summon the Shift Emergency Communicator(s) to the Control Room.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

Performance Step: 8	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED
Critical: N	
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	Acknowledge task completion.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: When The Shift Emergency Communicator Has Been Summoned, Inform The Operator That The JPM Is Complete.

Stop Time: _____

Historical Record:

Updated for procedure revisions and added to QF-1075-01 Rev 5 for 2016 ILT NRC Exam

Simulator Setup (as required):

1. This JPM can be run from the following Standard (Specific) IC sets:

- IC-* (IC-*), (IC Conditions Summary)

SIMULATOR INPUT SUMMARY							
Manual Trigger	Type	Code	Description	Delay	Ramp	Severity Or Value	Event Trigger

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

ATTACHMENT 1**JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date_____
Validation Personnel /Date_____
Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM-A.2-101-002 (EAL Classification) Rev. 11

ATTACHMENT 2**JPM Number:** JPM-A.2-101-002**JPM Title:** EAL Classification**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** ☐**UNSAT:** ☐**COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

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

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- The plant was operating at full power when the Drywell Equipment Drain Sump rate of change (ROC) high alarm comes in and Drywell pressure begins to rise.
- The crew discovers that there has been a failure of both No. 11 Recirc pump seals. No. 11 Recirc pump is removed from service and isolated, but leakage continues and the Drywell Equipment Drain Sump ROC has now reached 64 gpm.
- Drywell pressure reaches 2 psig and all required automatic actions are verified to have occurred.
- The applicable abnormal and EOP procedures have been entered.

INITIATING CUES (IF APPLICABLE):

- Determine the appropriate emergency classification.
- **THIS JPM IS TIME CRITICAL**
- **INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.**

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.