Xcel Energy	JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: DEPRESSURIZE THE SCRAM AIR HEADER FROM ASDS PANEL

JPM NUMBER: JPM-C.5-3101-001 **REV.** 4

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR314.105
Perform actions associated with alternate rod insertion

K/A NUMBERS: 295037 EA1.03 **Rating: SRO/RO:** 4.1/4.1

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-C.5-3101-001

JPM Title: Depressurize The Scram Air Header From ASDS Panel

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.

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 Reactor was manually scrammed due to loss of both Recirc pumps at 100% power.
- Eight control rods are at position 48 with their associated blue scram lights off.
- All RPS scram bus lights are OFF.
- Annunciator 5-B-22 (Scram Pilot Header Hi/Low Pressure) is not in ALARM.

INITIATING CUES (IF APPLICABLE):

- The CRS directs you to depressurize the scram air header from the ASDS panel using C.5-3101 Part B.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

JPM PERFORMANCE INFORMATION

Required Materials:
- None

General References:
- C.5-3101

Task Standards:
- Depressurize the Scram Air Header as per Part B, C.5-3101

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**	(Equipment) Locates procedure C.5-3101 (Alternate Rod Insertion) and Key 26 for ASDS Panel C-292.
Standard:	1. Locates appropriate procedure And 2. Locates key 26.
Evaluator Cue:	1. **Provide operator with a copy of procedure.** 2. **Inform operator NOT to open EOP file drawer.** 3. **Simulate giving operator key 26.**
Evaluator Note:	**Key 26 is in the EOP file drawer and also the Shift Supv office.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: N**	(Procedure STEP 1a) If the scram air header is to be depressurized from the ASDS panel, Then perform the following: Verify the following switches in NORMAL on ASDS panel: • SRV Div II Transfer Switch • RHR B Transfer Switch • Core Spray B Transfer Switch • No. 12 Diesel Gen Transfer Switch
Standard:	1. SRV Div II Transfer Switch in NORMAL, And 2. RHR B Transfer Switch in NORMAL, And 3. Core Spray B Transfer Switch in NORMAL, And 4. No. 12 Diesel Gen Transfer Switch in NORMAL
Evaluator Cue:	1. **All switches are as you see them.** 2. **If asked, inform them the amber light above the Rod Insert Air Header dump valve is not on.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: Y**	(Procedure STEP 1b) Place the Master ASDS Transfer Switch to TRANSFER.
Standard:	Places the Master ASDS Transfer Switch to TRANSFER using key 26.
Evaluator Cue:	**Switch is in TRANSFER position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: Y**	(Procedure STEP 1c) Place the Rod Insertion (Dump Air Header) to INSERT
Standard:	Places the Rod Insertion (Dump Air Header) to INSERT and release.
Evaluator Cue:	**Switch in INSERT position, spring return to normal.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: N**	(Procedure STEP 1d) Verify amber light above Rod Insertion Dump Air Header switch comes on.
Standard:	Verifies amber light above Rod Insertion Dump Air Header switch comes on.
Evaluator Cue:	**Amber light is ON.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical: N**	(Procedure STEP 1e) When the control rods no longer move inward, Then place the Master ASDS Transfer Switch to NORMAL.
Standard:	1. Asks if control rods are no longer moving in, And 2. Places the Master ASDS Transfer Switch to NORMAL 3. Removes Key 26
Evaluator Cue:	1. **Evaluator reports the eight controls rods fully insert.** 2. **Master ASDS Transfer Switch is in NOMRAL.** 3. **Key 26 is removed.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical: N**	**INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.**
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	**JPM Complete.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues:

Stop Time: _____

Historical Record:

- Converted from I-leaf and updated for 2010 ILT NRC Exam.

TURNOVER SHEET

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

INITIAL CONDITIONS:

- The Reactor was manually scrammed due to loss of both Recirc pumps at 100% power.
- Eight control rods are at position 48 with their associated blue scram lights off.
- All RPS scram bus lights are OFF.
- Annunciator 5-B-22 (Scram Pilot Header Hi/Low Pressure) is not in ALARM.

INITIATING CUES:

- The CRS directs you to depressurize the scram air header from the ASDS panel using C.5-3101 Part B.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: TRANSFER OF RPS BUS A TO ALTERNATE SOURCE

JPM NUMBER: JPM-B.09.12-002 **REV.** 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR212.109
Transfer RPS Bus A(B) to its Alternate Source

K/A NUMBERS: 212000 A2.01 **Rating: SRO/RO:** 3.9/3.7

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 Number: JPM-B.09.12-002

JPM Title: Transfer Of RPS Bus A To Alternate Source

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.

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 operating at 100% power.
- "A" RPS MG set has tripped due to an electrical fault.
- ½ scram currently exists on RPS Channel "A".
- No maintenance is in progress that will simulate a Division 2 High Drywell Pressure or a Low Reactor Water Level condition.
- Shift Chemist has been informed as to the reason the Off-gas Pretreatment Radiation Monitor is in Alarm.
- No control rod movement is scheduled.

INITIATING CUES:
- CRS directs you to transfer RPS Bus "A" to the alternate power supply and re-energize RPS Bus "A" by performing **steps 7 – 14** of procedure B.09.12-05, section G.1 (Transfer of RPS Bus A to Alternate Source).
- **INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

JPM PERFORMANCE INFORMATION

Required Materials:
- Poster sized picture of the inside of Panel Y40/Y50 (Attachment A of this JPM)
- Section G.1 of procedure B.09.12-05 (current revision) with steps 1 - 3 marked as complete and steps 4 – 6 marked as N/A

General References:
- B.09.12-05 (Reactor Protection Power Supplies – System Operation), Rev. 21

Task Standards:
- RPS Bus A has been transferred and re-energized via alternate source transformer Y60 in accordance with procedure B.09.12-05, section G.1.

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**	Identify location of controlled copy and review procedure B.09.12-05, section G.1 (Transfer of RPS Bus A to Alternate Source).
Standard:	Provides verbal description of where to obtain a controlled copy of procedure.
Evaluator Cue:	**When operator provides verbal description, provide operator copy of section G.1 of procedure B.09.12-05 with steps 1 - 3 marked as complete and steps 4 – 6 marked as N/A.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: N**	Procedure Step 7: Verify that alternate supply transformer Y60 is energized by verifying that the Y60 ALT FEED AVAILABLE light on Panel Y40 is LIT.
Standard:	Verifies Y60 Alt Feed Available light is lit.
Evaluator Note:	**Use picture provided of inside of this panel for operator to simulate actions. If necessary due to picture quality, confirm that light is on.**
Evaluator Cue:	**When operator observes light indication, inform operator light is lit.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: N**	Procedure Step 8: Verify EPA-157 power output light is ON.
Standard:	Verifies red Power Out light is lit on EPA-157 (located just below Y40).
Evaluator Cue:	**If light is already lit, state panel is as is. Otherwise, when operator observes appropriate light, inform operator light is lit.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: N**	Procedure Step 9: Verify EPA-158 power output light is ON.
Standard:	Verifies red Power Out light is lit on EPA-158 (located to the right of the emergency exit door).
Evaluator Cue:	**If light is already lit, state panel is as is. Otherwise, when operator observes appropriate light, inform operator light is lit.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: N**	**<u>NOTE 1:</u> A half Scram on Channel A will occur after opening CB3A.** **<u>NOTE 2:</u> During breaker operations, each APRM and RBM will receive a non-critical self test fault, RBM-A will receive critical and non-critical self test faults, 2-of-4 Voter-1 and 2-of-4 Voter-3 will lose all input power, and annunciators 5-A-5 (APRM DOWNSCALE/TROUBLE), 5-A-43 (TBM DOWNSCALE/TROUBLE), and 5-A-3 (ROD WITHDRAWAL BLOCK), will alarm.** Procedure Step 10: Open CB5A, SUPPLY TO PROCESS RAD MONITOR A (Panel Y50).
Standard:	Places third circuit breaker from the bottom left in the DOWN position.
Evaluator Cue:	**Circuit breaker is in DOWN position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical: N**	Procedure Step 11: Open CB3A, SUPPLY TO RPS CHANNEL A, PCIS (Panel Y50).
Standard:	Places first circuit breaker from the bottom left in the DOWN position.
Evaluator Note:	**Since RPS Channel "A" is already de-energized, the alarms mentioned in the procedure note will already be in alarm. Therefore, there should be no need to contact Control Room prior to opening this breaker.**
Evaluator Cue:	**Circuit breaker is in DOWN position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical: Y**	Procedure Step 12: Open CB1A, Y50 NORMAL FEED FROM MG SET A (Panel Y50).
Standard:	Places first circuit breaker from the upper left in the DOWN position.
Evaluator Cue:	**Circuit breaker is in DOWN position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 8 **Critical: Y**	Procedure Step 13: Close CB2A, Y50 ALTERNATE FEED FROM Y60 (Panel Y50).
Standard:	Places second circuit breaker from the upper left in the UP position moving mechanical interlock bar out of the way as necessary.
Evaluator Cue:	**Circuit breaker is in UP position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 9 **Critical: Y**	Procedure Step 14: Close CB3A (Panel Y50).
Standard:	Places first circuit breaker from the bottom left in the UP position.
Evaluator Note:	**This performance step is a critical step only if the breaker was opened in performance step 6.**
Evaluator Cue:	**Circuit breaker is in UP position.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 10 **Critical: N**	Inform Control Room that steps 7 – 14 of procedure B.09.12-05, section G.1 have been completed.
Standard:	• Contacts Control Room and reports RPS Bus "A" has been transferred to the alternate power supply and re-energized. • Informs evaluator task is complete.
Evaluator Cue:	**Inform the operator that the JPM is complete.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues: RPS Bus "A" has been re-energized from alternate power supply transformer Y60.

Stop Time: _____

Historical Record:

- Revised for 2010 NRC ILT Exam
- Provided a picture of the inside of the Y40/Y50 panel as Attachment A of this JPM
- Eliminated the option of obtaining permission and opening the panel with a flathead screwdriver

TURNOVER SHEET

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

INITIAL CONDITIONS:

- Plant is operating at 100% power.
- "A" RPS MG set has tripped due to an electrical fault.
- ½ scram currently exists on RPS Channel "A".
- No maintenance is in progress that will simulate a Division 2 High Drywell Pressure or a Low Reactor Water Level condition.
- Shift Chemist has been informed as to the reason the Off-gas Pretreatment Radiation Monitor is in Alarm.
- No control rod movement is scheduled.

INITIATING CUES:

- CRS directs you to transfer RPS Bus "A" to the alternate power supply and re-energize RPS Bus "A" by performing **steps 7 – 14** of procedure B.09.12-05, section G.1 (Transfer of RPS Bus A to Alternate Source).
- **INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK**
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

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
14. Are all items on the cover page filled in correctly?	☐	☐	
15. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
16. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
17. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
18. 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?	☐	☐	
19. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
20. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
21. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
22. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
23. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
24. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
25. Are all references identified, current, and accurate?	☐	☐	
26. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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 A

SITE:	MONTICELLO NUCLEAR GENERATING PLANT
JPM TITLE:	USE OF ALTERNATE INJECTION FOR RPV MAKEUP
JPM NUMBER:	JPM-C.5-3203-002 **REV.** 9
RELATED PRA INFORMATION:	WVHINXTIEY
TASK NUMBERS / TASK TITLE(S):	CR314.110 Use Alternate injections systems for RPV makeup
K/A NUMBERS:	295031 EA1.08 **Rating: SRO/RO:** 3.9/3.8

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

JPM Number: JPM-C.5-3203-002

JPM Title: Use Of Alternate Injection For RPV Makeup

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.

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 in an emergency condition requiring the use of Alternate Injection Systems for RPV Makeup.
- No. 11 & No. 13 RHRSW pumps are running and the Fire System is not supplying RHR.

INITIATING CUES (IF APPLICABLE):

- The CRS directs you to perform the IN-PLANT steps to CROSS-TIE A RHRSW WITH LPCI using Procedure C.5-3203.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

<u>EVALUATOR NOTE</u>: Some steps in this procedure require the use of a ladder. To prevent the inadvertent bumping of plant equipment, use of the ladder MUST BE SIMULATED.

JPM PERFORMANCE INFORMATION

Required Materials:
- Ladder (Simulated)

General References:
- C.5-3203

Task Standards:
- Crosstie RHRSW to LPCI

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**	Obtain Procedure C.5-3203, PART A, RHR SW CROSS-TIE LPCI.
Standard:	None
Evaluator Cue:	**Provide operator with a copy of procedure.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: Y**	Procedure STEP 1 CLOSE RHRSW-13, EMERGENCY INJECTION LEAKAGE TELLTALE.
Standard:	Closes RHRSW-13 by turning the handwheel CW.
Evaluator Cue:	**Valve handwheel moves clockwise, stem moves in, meets resistance and is tight.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: N**	Procedure STEP 2 Verify CLOSED RHRSW-46, EMERGENCY INJECTION VIA DIESEL FIRE PUMP.
Standard:	Verifies RHRSW-46 Closed by attempting to move handwheel in CW direction Or uses the valve stem position to determine the valve is close.
Evaluator Cue:	**Valve handwheel meets resistance, and is tight, or valve stem position indicates valve is closed.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: Y**	Procedure STEP 3 OPEN the following valves: • RHRSW-12, EMERGENCY INJECTION VIA A RHRSW LOOP • RHRSW-14, EMERGENCY INJECTION VIA A RHRSW LOOP
Standard:	Opens RHRSW-12. Opens RHRSW-14.
Evaluator Cue:	**Both valve handwheels move CCW, both valve stems rise, meet resistance and are tight.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: N**	**INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.**
Standard:	Operator informs evaluator that the task is completed.
Evaluator Note:	**The remaining steps of the procedure are performed in the control room.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues:

Stop Time: _____

Historical Record:

- Procedure updates for the 2010 ILT NRC Exam.

TURNOVER SHEET

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

INITIAL CONDITIONS:

- The plant is in an emergency condition requiring the use of Alternate Injection Systems for RPV Makeup.
- No. 11 & No. 13 RHRSW pumps are running and the Fire System is not supplying RHR.

INITIATING CUES (IF APPLICABLE):

- The CRS directs you to perform the IN-PLANT steps to CROSS-TIE A RHRSW WITH LPCI using Procedure C.5-3203.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED**

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
27. Are all items on the cover page filled in correctly?	☐	☐	
28. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
29. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
30. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
31. 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?	☐	☐	
32. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
33. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
34. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
35. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
36. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
37. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
38. Are all references identified, current, and accurate?	☐	☐	
39. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.