



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** Perform the Reactor Scram Functional Test 0010 / Rod Drift / Scram

**JPM NUMBER:** JPM-C.4-B.01.03.C-004                      **REV.**    0

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR200.226  
Respond to a drifting control rod

**K/A NUMBERS:**    201003                      A2.03                      **Rating: SRO/RO:**    3.7 / 3.4

**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 / Faulted:      Yes  

**TASK APPLICABILITY:**    SRO:               SRO/RO:   X      SRO/RO/NLO:           

Additional signatures may be added as needed.

<b>Developed by:</b>	<b>J Ruth</b>		
	Instructor	Date	
<b>Validated by:</b>	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date	
<b>Approved by:</b>	Training Supervisor	Date	

JPM-C.4-B.01.03.C-004 (PERFORM THE REACTOR SCRAM FUNCTIONAL TEST 0010 / ROD DRIFT / SCRAM) Rev. 0

**JPM Number:** JPM-C.4-B.01.03.C-004

**JPM Title:** Perform the Reactor Scram Functional Test 0010 / Rod Drift / Scram

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
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(See MTCP-03.32, Figure 6.2)
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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 rated conditions.
- Test 0010 (REACTOR SCRAM FUNCTIONAL TEST) is scheduled to be performed and has been approved to begin by the CRS.
- You are the Operator at the Controls

**INITIATING CUES (IF APPLICABLE):**

- Perform Test 0010 (REACTOR SCRAM FUNCTIONAL TEST)

**JPM PERFORMANCE INFORMATION**

**Required Materials:** Reset to any 100% power IC.

**General References:** Simulator

**Task Standards:** Respond to two drifting control rods during manual scram functional test and initiate the immediate operator actions for a reactor scram.

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	Operator may review procedure prior to performance.
<b>Critical: N</b>	
<b>Standard:</b>	None
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Depress 5A-S3A, REACTOR SCRAM A, pushbutton (Panel C-05), <u>AND</u> verify the following:
<b>Critical: Y</b>	a. Annunciator 5-B-12 (REACTOR MANUAL SCRAM CHANNEL A) is in ALARM
<b>Standard:</b>	Operator depresses the A manual scram pushbutton and verifies alarm.
<b>Evaluator Cue:</b>	If annunciator is reported, acknowledge as CRS
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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<b>Performance Step: 3</b> <b>Critical: N</b>	Depress 5A-S3A, REACTOR SCRAM A, pushbutton (Panel C-05), <u>AND</u> verify the following: b. CONTROL ROD DRIVE SCRAM SOLENOID RPS GROUP A indicating lights are OFF (Panel C-05).
<b>Standard:</b>	Operator verifies RPS GROUP A indicating lights are OFF.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b> <b>Critical: N</b>	Depress 5A-S3A, REACTOR SCRAM A, pushbutton (Panel C-05), <u>AND</u> verify the following: c. Computer point RPS029 (REACTOR MANUAL SCRAM A) displays TRIP.
<b>Standard:</b>	Operator verifies computer point in TRIP.
<b>Evaluator Cue:</b>	Inform operator that the computer point is in trip.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b> <b>Critical: N</b>	Verify 5A-S3A, REACTOR SCRAM A, pushbutton has been released, AND CONTROL ROD DRIVE SCRAM SOLENOID RPS GROUP A indicating lights remain OFF.
<b>Standard:</b>	Operator verifies manual scram pushbutton is released and RPS GROUP A indicating lights remain OFF.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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<b>Performance Step: 6</b> <b>Critical: Y</b>	RESET the half scram using 5A-S9, SCRAM LOGIC RESET, handswitch (Panel C-05), <u>AND</u> verify the following: a. Annunciator 5-B-12 (REACTOR MANUAL SCRAM CHANNEL A) is RESET.
<b>Standard:</b>	Operator resets half scram by moving the reset switch to both the left and right, and verifies annunciator is reset.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b> <b>Critical: N</b>	RESET the half scram using 5A-S9, SCRAM LOGIC RESET, handswitch (Panel C-05), <u>AND</u> verify the following: b. CONTROL ROD DRIVE SCRAM SOLENOID RPS GROUP A indicating lights are ON (Panel C-05).
<b>Standard:</b>	Operator verifies RPS GROUP A indicating lights are ON.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b> <b>Critical: N</b>	RESET the half scram using 5A-S9, SCRAM LOGIC RESET, handswitch (Panel C-05), <u>AND</u> verify the following: c. Computer point RPS029 (REACTOR MANUAL SCRAM A) displays RESET.
<b>Standard:</b>	Operator verifies computer point is reset.
<b>Evaluator Cue:</b>	Inform the operator that the computer point is reset.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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<b>Performance Step: 9</b>	Depress 5A-S3B, REACTOR SCRAM B, pushbutton (Panel C-05), <u>AND</u> verify the following:
<b>Critical: Y</b>	a. Annunciator 5-B-13 (REACTOR MANUAL SCRAM CHANNEL B) is in ALARM.
<b>Simulator Operator:</b>	When REACTOR SCRAM B, pushbutton is depressed, INSERT event 1
<b>Standard:</b>	Operator depresses the B manual scram pushbutton and verifies alarm. Operator reports Annunciator 5-A-27 (ROD DRIFT) is in alarm and notes 2 drifting control rods.
<b>Evaluator Cue:</b>	If annunciator is reported, acknowledge as CRS
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b>	<u>IF</u> more than one control rod is drifting,
<b>Critical: Y</b>	<u>THEN</u> insert a manual reactor scram. (Rod Drift immediate operator action).
<b>Standard:</b>	Operator depresses 5A-S3A (REACTOR SCRAM A) to insert a manual scram.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b>	C.4-A, Immediate Actions:
<b>Critical: Y</b>	Place the REACTOR MODE switch in SHUTDOWN.
<b>Standard:</b>	Operator places Reactor Mode switch to SHUTDOWN.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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<b>Performance Step: 12</b>	C.4-A, Immediate Actions:
<b>Critical: Y</b>	Determine if all rods are inserted to or beyond position 04.
<b>Standard:</b>	Operator determines positions of all control rods or uses RWM to determine all rods inserted.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b>	C.4-A, Immediate Actions:
<b>Critical: N</b>	Notify Shift Supervision.
<b>Standard:</b>	Operator notifies Control Room Supervisor of Reactor Scram.
<b>Evaluator Cue:</b>	Acknowledge Report as CRS
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 14</b>	<b>INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.</b>
<b>Critical: N</b>	
<b>Standard:</b>	Operator informs evaluator that the task is completed.
<b>Evaluator Cue:</b>	After the scram report, state that the JPM is completed
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** After the operator makes the scram report, state that the JPM is complete.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A



## TURNOVER SHEET

### INITIAL CONDITIONS:

- Plant is operating at rated conditions.
- Test 0010 (REACTOR SCRAM FUNCTIONAL TEST) is scheduled to be performed and has been approved to begin by the CRS.
- You are the Operator at the Controls

### INITIATING CUES (IF APPLICABLE):

- Perform Test 0010 (REACTOR SCRAM FUNCTIONAL TEST)

**SIMULATOR SET UP:**

Simulator Setup Instructions:

- Reset to IC-15 (or any 100% IC)
- IC-236 has setup for 2007 ILT Exam
- Provide 4 Keys to support prerequisite need in procedure

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.	CH05	CONTROL ROD (10-39) SCRAM	00:00:00	00:00:00	1	TRUE	TRUE
2.	CH05	CONTROL ROD (14-27) SCRAM	00:00:00	00:00:00	1	TRUE	TRUE

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

\_\_\_\_\_  
 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

\_\_\_\_\_  
 Validation Personnel /Date

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 Validation Personnel/Date

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 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

Historical Record: (Optional)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** Reactor Feed Pumps Cold Startup

**JPM NUMBER:** JPM-B.06.05-05.D.06-001 **REV.** 0

**RELATED PRA INFORMATION:** N/A

**TASK NUMBER(S) / TASK TITLE(S):** CR259.116  
Perform a Reactor Feed Pump Cold Startup

**K/A NUMBERS:** 259001/A4.02 **Rating: SRO/RO:** 3.7/3.9

**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 / Faulted: No

**TASK APPLICABILITY:** SRO: \_\_\_\_\_ SRO/RO: X SRO/RO/NLO: \_\_\_\_\_

Additional signatures may be added as needed.

<b>Developed by:</b>	<b>J Ruth</b>	
	Instructor	Date
<b>Validated by:</b>	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Training Supervisor	Date

**JPM Number:** JPM-B.06.05-05.D.06-001

**JPM Title:** Reactor Feed Pumps Cold Startup

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
-----------------------

(See MTCP-03.32, Figure 6.2)
------------------------------

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 reactor startup is in progress
- You are the BOP operator

**INITIATING CUES (IF APPLICABLE):**

- The CRS directs you to place the 11 RFP in service per B.06.05-05.D.06
- All procedure prerequisites are met and procedure steps 1-3 have been completed.
- An out plant operator is available to support this task

**SIMULATOR SETUP NOTE:**

- This JPM requires no malfunctions, remotes, or overrides. Standard IC-7 provides the appropriate plant conditions. IC-234 is used to support efficiency of performing parallel JPMs for the 2007 ILT exam.

**JPM PERFORMANCE INFORMATION**

**Required Materials:** N/A

**General References:** Simulator

**Task Standards:** Perform a cold start of 11RFP

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	Verify on C-06, both pumps suction pressure approximately equal to discharge pressure using PI-1120 and PI-1130 for 11 RFP and PI-1121 and PI-1131 for 12 RFP, and >200 psig.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies pressures approximately equal and >200 psig
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Verify CV-6-13 LOW FLOW REG is controlling RPV water level, OR is CLOSED as applicable.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies CV-6-13 LOW FLOW REG is controlling RPV water level, OR is CLOSED
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b>	Verify the following are CLOSED:
<b>Critical: N</b>	a. MO-1133, A FW HP HTR INL BLOCK b. MO-1134, B FW HP HTR INL BLOCK
<b>Standard:</b>	Verifies Block Valves closed.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b>	Station operator at pumps and verify the following for both RFPs:
<b>Critical: N</b>	a. Aux Oil Pump running with control switch in HAND b. Bearing header temp $\leq 110^{\circ}\text{F}$ c. Bearing header pressure 8 to 15 psig d. Oil flow through bearing sightglasses e. Seal water pressure to module $>300$ psig f. Service water cooling available for lube oil and motor cooler
<b>Standard:</b>	Directs out plant operator to verify the above parameters.
<b>Evaluator Cue:</b>	Reports as the out plant operator that the above conditions (a through f) are met.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	Place HS-1100, 11 RFP RECIRC VALVE handswitch in AUTO/START.
<b>Critical: Y</b>	
<b>Standard:</b>	Place HS-1100, 11 RFP RECIRC VALVE handswitch in AUTO/START.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



<b>Performance Step: 6</b>	Verify OPEN CV-3489 11 RFP P-2A FW RECIRC TO CDSR.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies CV-3489 is open.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b>	START 11 Reactor Feed Pump.
<b>Critical: Y</b>	
<b>Standard:</b>	Starts 11 RFP.
<b>Evaluator Cue:</b>	If requested as the out plant operator to investigate annunciator 6-A-35, COND DEMIN SYSTEM TROUBLE, acknowledge Panel C-80 Annunciator, and then report that the 'A' Filter Demin High dP alarm cycled in and out and that filter dP is normal.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b>	<u>IF</u> any abnormal noise or vibration develops,
<b>Critical: N</b>	<u>THEN</u> immediately shutdown unit,
	<u>AND</u> investigate cause.
<b>Standard:</b>	None
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: N</b>	Verify LOW FLOW REG is controlling RPV water level.
<b>Standard:</b>	Verified LOW FLOW REG is controlling RPV water level.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: N</b>	Ensure that balance drum flow is 90-120 gpm.
<b>Standard:</b>	Directs out plant operator to verify balance drum flow is 90-120 gpm.
<b>Evaluator Cue:</b>	Report as out plant operator that drum flow is 100 gpm.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b> <b>Critical: N</b>	Ensure that vibration is less than 2.5 MILs on all local vibration monitors.
<b>Standard:</b>	Directs out plant operator to check vibrations <2.5 MILs
<b>Evaluator Cue:</b>	Report as out plant operator that vibrations are <2.5 MILs.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b> <b>Critical: N</b>	Ensure that axial position is between +35 and -35 MILS
<b>Standard:</b>	Directs out plant operator to check that axial position is between +35 and -35 MILS.
<b>Evaluator Cue:</b>	Report as out plant operator that axial position is between +35 and -35 MILS.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b> <b>Critical: N</b>	Place HS-1100, 11 RFP RECIRC VALVE handswitch, to AUTO (valve should remain OPEN)
<b>Standard:</b>	Places HS-1100, 11 RFP RECIRC VALVE handswitch, to AUTO.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 14</b> <b>Critical: N</b>	<b>NOTE: The pump is now operating on recirculation and should have a minimum flow of 3300 gpm.</b> Verify minimum flow of 3300 gpm on local flow controller FIC-3489.
<b>Standard:</b>	Verifies minimum flow of 3300 gpm on local flow controller FIC-3489.
<b>Evaluator Cue:</b>	When requested, state that flow is >3300 pgm.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 15</b> <b>Critical: N</b>	Verify bearing header oil flow is >8 gpm, and bearing header discharge pressure is >6 psig, <b>THEN</b> place 11 RFP Aux Oil Pump HS to AUTO, pausing momentarily in OFF position to allow logic to reset.
<b>Standard:</b>	Places 11 RFP Aux Oil Pump HS to AUTO.
<b>Evaluator Cue:</b>	When requested, state that bearing header oil flow is >8 gpm and bearing header discharge pressure is >6 psig.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 16</b>	Verify 11 RFP Aux Oil Pump has stopped.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies 11 RFP Aux Oil Pump has stopped.
<b>Evaluator Cue:</b>	When the Aux Oil Pump has been verified to be stopped, state that the JPM is complete.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** When the Aux Oil Pump has been verified to be stopped, state that the JPM is complete.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- A reactor startup is in progress
- You are the BOP operator

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to place the 11 RFP in service per B.06.05-05.D.06
- All procedure prerequisites are met and procedure steps 1-3 have been completed.
- An out plant operator is available to support this task

**SIMULATOR SET UP:**

Simulator Setup Instructions:

- IC-234 has setup for 2007 ILT Exam
- Place the Low Flow Feed Reg valve controller in AUTO

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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

Historical Record: (Optional)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE).

**JPM NUMBER:** JPM-B.03.03-002 **REV.** 2

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR200.154  
STUCK OPEN RELIEF VALVE

**K/A NUMBERS:** 239002 **Rating: SRO/RO:** 4.4/4.4  
A4.01

**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 / Faulted: YES

**TASK APPLICABILITY:** SRO: \_\_\_\_\_ SRO/RO: X SRO/RO/NLO: \_\_\_\_\_

Additional signatures may be added as needed.

<b>Developed by:</b>		
	Instructor	Date
<b>Validated by:</b>		
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>		
	Training Supervisor	Date



JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

JPM Number: JPM-B.03.03-002

JPM Title: Perform SRV Operability and Position Indication Check on RV-2-71H in accordance with Test No. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE)

Examinee: \_\_\_\_\_

Evaluator: \_\_\_\_\_

Job Title: \_\_\_\_\_

Date: \_\_\_\_\_

Start Time \_\_\_\_\_

Finish Time \_\_\_\_\_

PERFORMANCE RESULTS:

SAT:

UNSAT:

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

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
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(See MTCP-03.32, Figure 6.2)
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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:**

- Reactor is at ~2% power. Reactor pressure is approximately 140 psig. One Turbine Bypass valve is approximately 90% open. RHR is in Torus Cooling mode.

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor directs you to perform Test No. 0112 on SRV 2-71H only.
- A marked up copy of Test No. 0112 is provided.
- The Rx Bldg APEO has just completed a Torus walkdown to ensure no one is working in area.
- An operator is standing by panel C-07 to monitor and report TBPV position changes.
- Other operators will assist you as you specifically request.

**JPM PERFORMANCE INFORMATION**

**Required Materials:** C.4-B.03.03.A (STUCK OPEN RELIEF VALVE)

**General References:** Simulator

**Task Standards:** Perform SRV operability test and respond to a stuck open SRV.

**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).

**NOTE:** 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.

**Performance Step: 1**  
**Critical: N**

**GENERAL NOTE 1:**  
Operators to perform all steps, unless otherwise noted.

**GENERAL NOTE 2:**  
Turbine bypass valves should change position by about 10% prior to closing the SRV under test.

**GENERAL NOTE 3:**  
Annunciator 3-A-9 (AUTO BLOWDOWN RELIEF VLV LEAKING) may alarm each time an SRV is opened.

**GENERAL NOTE 4:**  
The SRVs may be tested in any order.

Place RHR System in Torus Cooling Mode per Ops Man B.03.04-05 (RESIDUAL HEAT REMOVAL SYSTEM - SYSTEM OPERATION).

**Standard:** None

**Evaluator Cue:** None

**Performance:** SATISFACTORY  UNSATISFACTORY

**Comments:** \_\_\_\_\_

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 2</b> <b>Critical: N</b>	Walkdown Torus area to ensure no one is working in the area.
<b>Standard:</b>	None
<b>Evaluator Cue:</b>	If asked, state that no one is working in the torus area.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b> <b>Critical: N</b>	Announce over plant page that SRV testing is about to commence.
<b>Standard:</b>	Makes announcement.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b> <b>Critical: N</b>	Perform the following to minimize level and power swings due to subsequent SRV cycling: a. PLACE Vessel Level (Feedwater) Low Flow Valve Control, 6-85, on Panel C-05 to manual. b. Instruct operator to stay at Panel C-05 for duration of test to monitor and manually control Reactor level using Low Flow Valve.
<b>Standard:</b>	Verifies low flow valve control, 6-85 is in manual and operator stationed to respond.
<b>Evaluator Cue:</b>	Feedwater Low Flow Valve control is in manual and another operator is stationed to respond as necessary.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 5</b> <b>Critical: N</b>	Initiate Procedure 0444-B to record Suppression Pool temperature as required Tech Spec SR3.6.2.1.1.
<b>Standard:</b>	Recognize 0444-B is required.
<b>Evaluator Cue:</b>	When recognized, state that another operator will be assigned to initiate the procedure.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b> <b>Critical: Y</b>	At Panel C-03, PLACE handswitch 2E-S4H, RV-2-71H Relief Valve H, to OPEN.
<b>Standard:</b>	Opens RV-2-71H using handswitch 2E-S4H.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____
<b>Sim Cue:</b>	When RV2-71H handswitch is placed in OPEN, <b>INSERT</b> malfunction AP01H (SAFETY/RELIEF VALVE RV2-71H FAILS OPEN).

<b>Performance Step: 7</b> <b>Critical: N</b>	Verify the following: a. Red light is on next to manipulated handswitch.
<b>Standard:</b>	Verifies red light is on.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 8</b> <b>Critical: N</b>	Verify the following: b. Amber lights are on: 1) 2E-S4H (C-03)
<b>Standard:</b>	Verifies amber light is on.
<b>Evaluator Cue:</b>	When requested, report that the amber light on panel C-292 is on.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: N</b>	Verify the following: c. Turbine bypass valves respond by starting to close.
<b>Standard:</b>	Verifies bypass valve response.
<b>Evaluator Cue:</b>	If requested, report bypass valve response.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: N</b>	Verify the following: <b>NOTE: A change of about 10% or more in bypass valve position indicates unrestricted SRV flow.</b>  d. SRV discharge flow is unrestricted.
<b>Standard:</b>	Verifies bypass valve position decreases 10% or more.
<b>Evaluator Cue:</b>	If requested, report bypass valve actual response.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 11</b>	Verify the following:
<b>Critical: N</b>	e. Annunciator 5-A-46 (SRV OPEN) is in ALARM.
<b>Standard:</b>	Verifies Annunciator 5-A-46 is in Alarm.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b>	At Panel C-03, PLACE handswitch 2E-S4H to AUTO.
<b>Critical: Y</b>	
<b>Standard:</b>	Places handswitch 2E-S4H to AUTO.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b>	Verify the following:
<b>Critical: Y</b>	a. Green indicating light is on next to manipulated SRV handswitch.
<b>Standard:</b>	Observes that the red indicating light is ON, and Amber light still ON. (Operator will identify C.4-B.03.03.A (STUCK OPEN RELIEF VALVE) entry.)
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 14</b> <b>Critical: Y</b>	Enters C.4-B.03.03.A (STUCK OPEN RELIEF VALVE) and performs the immediate operator actions.  1. Place the handswitch for the affected SRV to the OPEN position and then return it to the normal position.
<b>Standard:</b>	Places handswitch in open and then to auto.
<b>Evaluator Cue:</b>	If told of action, acknowledge CRS.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 15</b> <b>Critical: Y</b>	2. <u>IF</u> SRV E, G, or H open, <u>THEN</u> perform the following:  a. Place their respective switches (2E-S4E, 2E-S4G, 2E-S4H on C-03) in CLOSE.
<b>Standard:</b>	Place switch 2E-S4H in CLOSE.
<b>Evaluator Cue:</b>	If told of action, acknowledge CRS.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

<b>Performance Step: 16</b> <b>Critical: Y</b>	2. <u>IF</u> SRV E, G, or H open, <u>THEN</u> perform the following:  b. Place DIV II Lo-Lo SET LOGIC switch (HS-S3B) on Control Room Panel C-253D in BYPASS.
<b>Standard:</b>	Place DIV II Lo-Lo SET LOGIC switch in BYPASS.
<b>Evaluator Cue:</b>	If told of action, acknowledge CRS.
<b>Sim Cue:</b>	When DIV II Lo-Lo SET LOGIC switch is taken to BYPASS, <b>DELETE</b> malfunction AP01H (SAFETY/RELIEF VALVE RV2-71H FAILS OPEN) <b>AND DELETE</b> Safety Relief Valve RV2-71H Red Light override.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 17</b> <b>Critical: N</b>	Notify Shift Supervision.
<b>Standard:</b>	Notifies Shift Supervision.
<b>Evaluator Cue:</b>	Acknowledge notification as CRS.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** When report is made of the task completion, state that the JPM is complete.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- Reactor is at ~2% power. Reactor pressure is approximately 140 psig. One Turbine Bypass valve is approximately 90% open. RHR is in Torus Cooling mode.

### INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to perform Test No. 0112 on SRV 2-71H only.
- A marked up copy of Test No. 0112 is provided.
- The Rx Bldg APEO has just completed a Torus walkdown to ensure no one is working in area.
- An operator is standing by panel C-07 to monitor and report TBPV position changes.
- Other operators will assist you as you specifically request.

JPM-B.03.03-002 (PERFORM SRV OPERABILITY AND POSITION INDICATION CHECK ON RV-2-71H IN ACCORDANCE WITH TEST NO. 0112 (RESPOND TO STUCK OPEN RELIEF VALVE), Rev. 2

SIMULATOR SET UP: *(Modify table as necessary)*

Simulator Setup Instructions:

- Initialize to any IC with the Reactor critical at approximately 140 psig and one Turbine Bypass valve 90% open. RHR is in Torus Cooling mode.
- IC-234 has setup for 2007 ILT Exam
- Fill in Test 0112 as follows:
  - Sign Control Room Supervisor approval on cover sheet.
  - Reason for Performing Step 2.
  - Initial prerequisites.
  - Initial Part A, Steps 1 and 2.
  - N/A all Steps in Parts B, C, D, E, F, G, H and I.
  - Operator will be performing Parts A, J and K.

SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.	AP01H	Safety/Relief Valve RV2-71-H Fails Open	00:00:00	00:00:00	1	TRUE	TRUE
2.							

SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.	DS220-02	Safety Relief Valve RV2-71-H Red Light	00:00:00	00:00:00	1	ON	ON
2.							

SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall 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  
 Historical Record: (Optional)

\_\_\_\_\_  
 Validation Personnel/Date



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** Manual Initiation of RCIC

**JPM NUMBER:** JPM-B.02.03-009 **REV.** 0

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR217.107  
Manually Initiate RCIC

**K/A NUMBERS:** 217000, A4.04 **Rating: SRO/RO:** 3.6 / 3.6

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:**

In-Plant:	<input type="checkbox"/>	Control Room:	<input type="checkbox"/>
Simulator:	<input checked="" type="checkbox"/>	Other:	<input type="checkbox"/>
Lab:	<input type="checkbox"/>		

Time for Completion: 10 Minutes Time Critical: No

Alternate Path / Faulted: Yes

**TASK APPLICABILITY:** SRO: \_\_\_\_\_ SRO/RO: X SRO/RO/NLO: \_\_\_\_\_

Additional signatures may be added as needed.

<b>Developed by:</b>	<b>J Ruth</b>	
	Instructor	Date
<b>Validated by:</b>	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
<b>Approved by:</b>	Training Supervisor	Date

**JPM Number:** JPM-B.02.03-009 \_\_\_\_\_

**JPM Title:** Manual Initiation of RCIC \_\_\_\_\_

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
-----------------------

(See MTCP-03.32, Figure 6.2)
------------------------------

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 reactor scram has occurred due to a loss of normal feedwater
- You are the BOP operator

**INITIATING CUES (IF APPLICABLE):**

- Restore RPV water level by manual initiation of RCIC per the hard card.

**JPM PERFORMANCE INFORMATION**

**Required Materials:** Simulator

**General References:** B.02.03-05

**Task Standards:** Inject with RCIC into the RPV

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	At any time while performing this procedure,
<b>Critical: N</b>	<u>IF</u> conditions permit, <u>THEN</u> place RHR in torus Cooling for cooling/mixing the Torus water, per Ops Man Section B.03.04-05.
<b>Standard:</b>	Informs CRS for step to place Torus Cooling in service.
<b>Evaluator Cue:</b>	Acknowledge report and state that another operator will be directed to place Torus Cooling in service.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Verify flow controller FIC-13-91 is in AUTO, <u>AND</u> set to 400 gpm.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies flow controller FIC-13-91 is in AUTO, <u>AND</u> set to 400 gpm.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



<b>Performance Step: 3</b>	OPEN MO-2096, RCIC Cooling Water Supply Valve
<b>Critical: Y</b>	
<b>Standard:</b>	Opens MO-2096, RCIC Cooling Water Supply Valve
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b>	Place P-211 (RCIC Barometric Condenser Vacuum Pump) Handswitch, 13A-S15, in the START position.
<b>Critical: N</b>	
<b>Standard:</b>	Places Handswitch, 13A-S15, in the START position.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	OPEN CV-2104, RCIC Pump Minimum flow Valve
<b>Critical: N</b>	
<b>Standard:</b>	Opens CV-2104, RCIC Pump Minimum flow Valve
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b>	OPEN the following:
<b>Critical: Y</b>	<ul style="list-style-type: none"> <li>a. MO-2107, RCIC Pump Disch Inbd valve</li> <li>b. MO-2106, RCIC Pump Disch Otbd valve</li> </ul>
<b>Standard:</b>	Opens MO-2107 and MO-2106
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b> <b>Critical: Y</b>	OPEN MO-2078, RCIC Turbine Steam Supply
<b>Standard:</b>	Opens MO-2078, RCIC Turbine Steam Supply
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b> <b>Critical: N</b>	Verify the following valves are closed: a. CV-2848 and CV-2849, RCIC Cond Pump Discharge to CRW b. CV-2082A and CV-2082B, RCIC Steam Line Drain to Main Condenser
<b>Standard:</b>	Verifies CV-2848, CV-2849, CV-2082A and CV-2082B are closed.
<b>Evaluator Cue:</b>	
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: Y</b>	Verify SI-7321, RCIC Turbine Speed Indicator is increasing, indicating that unit is rolling.
<b>Standard:</b>	Notes turbine speed is cycling between 0-500 rpm and the Turbine Control Valve, HO-8, is cycling and annunciator 4-A-14 (RCIC LOW FLOW) is in alarm.
<b>Evaluator Cue:</b>	If operator reports failure of speed to increase, acknowledge report.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: Y</b>	Place RCIC Flow Controller, FIC-13-91 in MANUAL and turns speed control knob in the clockwise direction.
<b>Standard:</b>	Places RCIC Flow Controller, FIC-13-91 in MANUAL and turns speed control knob in the clockwise direction.
<b>Evaluator Cue:</b>	If operator reports speed increasing, acknowledge report.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b>	Verify AO-13-22, RCIC Injection Testable Ckv, is open.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies AO-13-22, RCIC Injection Testable Ckv, is open.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b>	Verify RCIC pump flow is maintained at desired level.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies RCIC pump flow is maintained at desired level.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b>	Refer to Ops Man Section B.02.03-05.E, Operating Procedures, for further guidance on reactor vessel level and pressure control.
<b>Critical: N</b>	
<b>Standard:</b>	Refers to Ops Man Section B.02.03-05.E, Operating Procedures, for further guidance on reactor vessel level and pressure control or asks CRS for further guidance on RCIC operation.
<b>Evaluator Cue:</b>	When operator refers to B.02.03-05.E state JPM is complete.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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

**Terminating Cues:** When operator informs evaluator that the task is completed, state that the JPM is completed.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- A reactor scram has occurred due to a loss of normal feedwater
- You are the BOP operator

### INITIATING CUES (IF APPLICABLE):

- Restore RPV water level by manual initiation of RCIC per the hard card

**SIMULATOR SET UP:**

**Simulator Setup Instructions:**

- IC-235 has setup for 2007 ILT Exam
- Establish a condition with a reactor scram and both RFPs and HPCI unavailable for RPV injection
- Insert malfunction RC05B, RCIC SPEED CONTROL FAILS LOW

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.	RC05B	RCIC Speed Control Fails Low	00:00:00	00:00:00	N/A	TRUE	TRUE
2.							

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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

Historical Record: (Optional)

	<h2 style="margin: 0;">JOB PERFORMANCE MEASURE (JPM)</h2>
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**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** DRYWELL TO SUPPRESSION CHAMBER VACUUM BREAKER LEAKAGE OPERATIONAL CHECK

**JPM NUMBER:** JPM-B.04.01-006 **REV.** 0

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR999.223  
Containment System

**K/A NUMBERS:** 223001 **Rating: SRO/RO:** 3.4/3.4  
A3.02

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

**EVALUATION LOCATION:** In-Plant:  Control Room:   
 Simulator:  Other:   
 Lab:

Time for Completion: 35 Minutes Time Critical: NO

Alternate Path / Faulted: YES

**TASK APPLICABILITY:** SRO: \_\_\_\_\_ SRO/RO: X SRO/RO/NLO: \_\_\_\_\_

<b>Developed by:</b>	<b>J. Ruth</b>	Date
	Instructor	
<b>Validated by:</b>	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
<b>Approved by:</b>	Training Supervisor	Date

**JPM Number:** JPM-B.04.01-006



**JPM Title:** DRYWELL TO SUPPRESSION CHAMBER VACUUM BREAKER LEAKAGE OPERATIONAL CHECK

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

COMMENTS/FEEDBACK: (Comments shall be made 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
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(See MTCP-03.32, Figure 6.2)
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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 at power
- You are the BOP operator

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor directs you to complete Test No. 0143 (DRYWELL-TORUS MONTHLY VACUUM BREAKER CHECK).
- An out plant operator is available to assist with this task.

### JPM PERFORMANCE INFORMATION

**Required Materials:** Initialize the simulator to any IC with the plant at power.

**General References:** Plant

**Task Standards:** Perform D/W to Torus vacuum breaker test, recognize partially open vacuum breaker indication and perform required test to determine if valve is open or closed.

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	OPEN or verify open the following valves:
<b>Critical: Y</b>	a. AI-215 b. CV-7956
<b>Standard:</b>	1. Directs APEO to OPEN AI-215. 2. Opens CV-7956 using HS-7956 on panel C-06.
<b>Evaluator Cue:</b>	AI-215 is open. (Booth operator removes malfunction PC07AC when candidate directs the out plant operator to open AI-215)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<p><b>Performance Step: 2</b> <b>Critical: Y</b></p>	<p><b>NOTE 1:</b> The following steps require an operator to monitor local position indication on the wall mounted cabinet in the northeast corner of the Reactor Building at elevation 935’.</p> <p><b>NOTE 2:</b> Verification of green indicating lights ON for the local position indication for each vacuum breaker satisfies the independent verification for returning the components to their normal position.</p> <p>SELECT AO-2382A, Torus-DW Vac Breaker, on valve select switch 16A-S60, Suppression Chamber to Drywell Vac Bkr Vlv Sel Sw (Panel C-04).</p>
<p><b>Standard:</b></p>	<p>Selects AO-2382A, on valve select switch 16A-S60.</p>
<p><b>Evaluator Cue:</b></p>	<p>None</p>
<p><b>Performance:</b></p>	<p><b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/></p>
<p><b>Comments:</b></p>	<p>_____</p>

<p><b>Performance Step: 3</b> <b>Critical: Y</b></p>	<p>OPEN AO-2382A by placing valve operation switch 16A-S61, Suppression Chamber to Drywell Vac Bkr Vlv Op Sw, (Panel C-04) to TEST.</p>
<p><b>Standard:</b></p>	<p>Places switch 16A-S61, to TEST and holds it there.</p>
<p><b>Evaluator Cue:</b></p>	<p>None</p>
<p><b>Performance:</b></p>	<p><b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/></p>
<p><b>Comments:</b></p>	<p>_____</p>

<p><b>Performance Step: 4</b> <b>Critical: N</b></p>	<p>Verify AO-2382A OPENED by observing the following:</p> <ol style="list-style-type: none"> <li>a. The green indicating light is OFF and the red indicating light is ON above the valve select switch, 16A-S60.</li> <li>b. The green indicating light is OFF and the red indicating light is ON on the wall mounted cabinet in the northeast corner of the Reactor Building at elevation 935’.</li> </ol>
<p><b>Standard:</b></p>	<ol style="list-style-type: none"> <li>1. Verifies green light OFF and red light ON above HS for AO-2382A, <u>AND</u></li> <li>2. Directs APEO to verify AO-2382A local green light OFF and red light is ON.</li> </ol>
<p><b>Evaluator Cue:</b></p>	<p>Local red light for AO-2382A is ON. Local green light for AO-2382A if OFF.</p>
<p><b>Performance:</b></p>	<p><b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/></p>
<p><b>Comments:</b></p>	<p>_____</p>

<b>Performance Step: 5</b> <b>Critical: N</b>	Verify the following annunciators are in ALARM: a. 5-A-41 (CR VAC BKR DW/TORUS) b. 5-A-42 (LOCAL VAC BKR DW/TORUS)
<b>Standard:</b>	Verifies 5-A-41 and 5-A-42 are alarming.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b> <b>Critical: Y</b>	Place valve operation switch 16A-S61 (Panel C-04) to OFF.
<b>Standard:</b>	Places 16A-S61 to OFF.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b> <b>Critical: Y</b>	Verify AO-2382A CLOSED by observing the following: a. The green indicating light is ON and the red indicating light is OFF above the valve select switch, 16A-S60. b. The green indicating light is ON and the red indicating light is OFF on the wall mounted cabinet in the northeast corner of the Reactor Building at elevation 935'.
<b>Standard:</b>	1. Verifies green light ON and red light ON above HS for AO-2382A, <u>AND</u> 2. Directs APEO to verify AO-2382A local green light ON and red light is OFF. 3. Reports intermediate position indication to CRS.
<b>Evaluator Cue:</b>	Local red light for AO-2382A is ON. Local green light for AO-2382A if ON. After report of intermediate indication, direct test suspended and that CV-7956 and AI-215 be closed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b> <b>Critical: Y</b>	Informs CRS of need to perform Test 0213, DRYWELL TO SUPPRESSION CHAMBER VACUUM BREAKER LEAKAGE OPERATIONAL CHECK.
<b>Standard:</b>	Informs CRS of test failure.
<b>Evaluator Cue:</b>	If informed, direct performance of test. Provide an approved copy of test to be performed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: N</b>	Verify valve DWV-12, V-EF-25 Purge Fan Disch, is CLOSED.
<b>Standard:</b>	Calls Reactor Building operator and directs that valve is verified closed.
<b>Evaluator Cue:</b>	States DWV-12 is closed
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: Y</b>	<u>IF</u> the Reactor is in RUN mode, <u>THEN</u> place 16A-S53, Containment Vent Run Mode Intlk, keylock switch in the BYPASS position.
<b>Standard:</b>	Places 16A-S53, Containment Vent Run Mode Intlk, keylock switch in the BYPASS position.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b> <b>Critical: Y</b>	OPEN the following valves: a. AO-2377, Drywell & Torus Purge Otbd Isol b. AO-2381, Drywell Purge Inbd Isol
<b>Standard:</b>	Opens both valves
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b> <b>Critical: N</b>	At the liquid nitrogen storage tank, verify that valve DWV-21, Liquid N2 Make-up to Vaporizer, is CLOSED.
<b>Standard:</b>	Directs Out Plant operator to verify valve closed.
<b>Evaluator Cue:</b>	Report valve is verified closed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b> <b>Critical: N</b>	Verify valve DWV-29, Vaporizer Inl, is CLOSED.
<b>Standard:</b>	Directs Out Plant operator to verify valve closed.
<b>Evaluator Cue:</b>	Report valve is verified closed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 14</b> <b>Critical: N</b>	Verify valve DWV-14, N2 Purge Vaporizer Out, is CLOSED.
<b>Standard:</b>	Directs Out Plant operator to verify valve closed.
<b>Evaluator Cue:</b>	Report valve is verified closed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 15</b> <b>Critical: N</b>	<b><u>NOTE:</u> If the nitrogen storage tank cannot supply sufficient nitrogen pressure, the Drywell instrument air system may transfer back to the instrument air supply.</b> During depressurization, observe nitrogen supply pressure to the Drywell instrument air header, AND IF desired following completion of pressurization, THEN transfer back to Nitrogen supply by depressing the N2 RESET pushbutton.
<b>Standard:</b>	None
<b>Evaluator Cue:</b>	If asked to monitor, acknowledge the request.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 16</b> <b>Critical: N</b>	Place the POST LOCA SW TO PRESS SENSING LINES PCV-3281 AND PS-3372 switch to ON (north wall by vaporizer).
<b>Standard:</b>	Directs Out Plant operator to Place the POST LOCA SW TO PRESS SENSING LINES PCV-3281 AND PS-3372 switch to ON.
<b>Evaluator Cue:</b>	State that the switch is ON.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



<b>Performance Step: 17</b> <b>Critical: N</b>	Perform the following: a. Slowly OPEN valve DWV-13, N2 Vaporizer Byp, until the desired flow is established. Maintain Nitrogen temperature above 60° F. b. <u>IF</u> 20-A-49 (NITROGEN TEMP LOW) is in ALARM, <u>THEN</u> reduce flow.
<b>Standard:</b>	Directs Out Plant operator to slowly OPEN valve DWV-13, N2 Vaporizer Byp, until the desired flow is established.
<b>Evaluator Cue:</b>	State valve is open and will monitor nitrogen temperature and alarm.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 18</b> <b>Critical: N</b>	Verify AO-2982, Primary Ctmt Exh Isol Plenum, is CLOSED.
<b>Standard:</b>	Verifies valve closed.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 19</b> <b>Critical: Y</b>	Manually initiate one of the SBGT trains (See Ops Man B.04.02-05).
<b>Standard:</b>	Recognizes need for SBGT to be placed in service.
<b>Evaluator Cue:</b>	State that another operator will manually start SBGT Train A. (Simulator booth operator will place SBGT Train A in service per B.04.02-05.D.3) (NOTE: When booth operator informs the examiner that SBGT is in service, then inform candidate that SBGT is in service.)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 20</b> <b>Critical: Y</b>	<u>WHEN</u> containment pressure is approximately 1 psig, <u>THEN</u> OPEN the following valves: a. CV-2384, Torus Purge Exhaust Inbd b. AO-2896, Torus Main Exhaust
<b>Standard:</b>	Waits until approximately 1 psig and opens valves.
<b>Evaluator Cue:</b>	When containment pressure is 0.5 psig (or at the discretion of the examiner), state that for the purpose of this JPM, containment pressure is approximately 1 psig. (It takes ~ 15 minutes to achieve 0.5 psig)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 21</b> <b>Critical: N</b>	Monitor Drywell to Torus differential pressure. <u>IF</u> adequate differential pressure, 0.1 to 0.3 psid, can be obtained by venting the torus, <u>THEN</u> proceed to STEP 14, IF NOT, proceed to STEP 13a.
<b>Standard:</b>	Observes adequate differential pressure.
<b>Evaluator Cue:</b>	DP indicates 0.2 psid. (NOTE: this is different than on front panel indicator.)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 22</b> <b>Critical: Y</b>	<u>WHEN</u> a differential pressure of 0.1 to 0.3 psid is obtained, <u>THEN</u> CLOSE the following valves to shutdown the nitrogen supply to the Drywell: a. DWV-13 b. AO-2377 c. AO-2381
<b>Standard:</b>	Directs the Out Plant Operator to close DWV-13 and closes AO-2377 and AO-2381.
<b>Evaluator Cue:</b>	Report as the Out Plant Operator that DWV-13 is closed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 23</b> <b>Critical: Y</b>	<b>NOTE: SBTG may be secured per Ops Manual B.04.02-05 following this step.</b> CLOSE the following valves to terminate Torus venting: a. CV-2384 b. CV-2896
<b>Standard:</b>	Closes CV-2384 and CV-2896.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 24</b> <b>Critical: Y</b>	<b>NOTE: Primary Containment temperature and Torus water level must be stable while taking pressure decay data. Changes in temperature and water level impact the drywell and suppression chamber pressures.</b>  <u>WHEN</u> Primary Containment temperature and Torus water level are stable, <u>THEN</u> record Drywell-to-Torus differential pressure at 10 second intervals, for a period of at least 2 minutes, on the attached data sheet.
<b>Standard:</b>	Record Drywell-to-Torus differential pressure at 10 second intervals, for a period of at least 2 minutes, on the attached data sheet.
<b>Evaluator Cue:</b>	After 2 sets of data have been recorded on the data sheet, state that the JPM is complete.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 25</b> <b>Critical: N</b>	<b>THE TASK HAS BEEN COMPLETED.</b>
<b>Standard:</b>	Operator acknowledges from evaluator that the task is completed.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** Provided in Step 24.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The plant is at power
- You are the BOP operator

### INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to complete Test No. 0143 (DRYWELL-TORUS MONTHLY VACUUM BREAKER CHECK).
- An out plant operator is available to assist with this task.

JPM-B.04.01-006 (DRYWELL TO SUPPRESSION CHAMBER VACUUM BREAKER LEAKAGE OPERATIONAL CHECK) Rev. 0

SIMULATOR SET UP:

**NOTE: IC-237 supports this JPM and the EDG JPM for the 2007 ILT exam**

From 100% power IC 15, perform the following:

Complete Test No.0143 as follows:

- Sign Shift Supv approval on cover sheet
- Put the following in the comments section on the cover sheet:
- Mark # 1 as the reason for performing this test.
- N/A all prerequisites.

Provide copy of Test No. 0143 to Operator.

- Insert remote DG10 #11 Diesel Generator speed droop in.
- Lower the 11 EDG speed adjust control switch for ~15 seconds
- Insert remote PC01, DWV-13, N2 Gas Supply valve to OPEN
- Insert remote IA07, AI-38 Instrument Air Manual Isolation valve
- Insert override DS006-02, Vac Brkr AO-2382A red lamp to ON when test switch is taken to TEST
- When directed by Evaluator to place SGBT Train A in service (JPM step 21, place SGBT in service per B.04.02-05.D.3.
- Place Vacuum Breaker Selector Switch to any position EXCEPT A

SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.	PC07AC	'A' D/W – Torus vac bkr failed closed	00:00:00	00:00:00	N/A	False	True

SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.	DS006-02	Vac BKR AO-2382A Red Lamp	00:00:00	00:00:00	1	OFF	ON

SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.	PC01	DWV-13, N2 Gas Supply Throttle Valve	00:00:00	00:00:00	N/A	0	100
2.	IA07	AI-38 Instrument Air Manual Isolation valve	00:00:00	00:00:00	N/A	100	100
3.	DG10	#11 Diesel Generator speed droop	00:00:00	00:00:00	N/A	IN	IN

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

\_\_\_\_\_  
 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

\_\_\_\_\_  
 Validation Personnel /Date

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 Validation Personnel/Date

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 Validation Personnel /Date

\_\_\_\_\_  
 Validation Personnel/Date

Historical Record: (Optional)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** MANUALLY START NO. 11 EDG (CONTROL ROOM ACTIONS)

**JPM NUMBER:** JPM-B.09.08-001 **REV.** 9

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR264.101  
Perform the 11(12) Emergency Diesel Generator Start and Load Test

**K/A NUMBERS:** 264000.A4.04 **Rating: SRO/RO:** 3.7/3.7

**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 / Faulted: NO

**TASK APPLICABILITY:** SRO: \_\_\_\_\_ SRO/RO: X SRO/RO/NLO: \_\_\_\_\_

Additional signatures may be added as needed.

<b>Developed by:</b>	J. Ruth	
	Instructor	Date
<b>Validated by:</b>	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
<b>Approved by:</b>	Training Supervisor	Date



**JPM Number:** JPM-B.09.08-001

**JPM Title:** Manually Start No. 11 EDG (Control Room Actions)

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
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(See MTCP-03.32, Figure 6.2)
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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 task conditions are as follows:

- The Reactor is at power.
- The Emergency Diesel Generator System Engineer has requested that No. 11 EDG be started and loaded to 2500 KW to perform an in-service inspection.
- You are the Balance of Plant operator.

**INITIATING CUES (IF APPLICABLE):**

The CRS directs you to manually start and load No. 11 EDG to 2500 Kw per the operations manual B.09.08-05.D.1. The Turbine Building Operator has completed the EDG In-plant Pre-Start Checks. Procedure STEPS 1 through 9 have been completed.”

**JPM PERFORMANCE INFORMATION**

**Required Materials:** NONE

**General References:** B.09.08-05 Rev. 25

**Task Standards:** START AND LOAD EDG TO 2500 KW

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	Locate procedure B.09.08-05 D.1. (11 EMERGENCY DIESEL GENERATOR STARTUP).
<b>Critical: N</b>	
	Operator obtains and reviews procedure.
<b>Standard:</b>	Obtained appropriate procedure.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Start generator G-3A by performing the following concurrently:
<b>Critical: Y</b>	a. PLACE switch DG1/CS in START position.
	Operator places Diesel Gen Control switch (DG1/CS) to START and releases and acknowledges annunciators.
<b>Standard:</b>	Started 11 EDG
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b> <b>Critical: N</b>	Start generator G-3A by performing the following concurrently:  b. CHECK the following annunciators in alarm: a. 8-B-24 (NO. 11 DIESEL ENG CRANKING) b. 8-B-34 (NO. 11 DIESEL ENG RUNNING)  Operator places Diesel Gen Control switch (DG1/CS) to START and releases and acknowledges annunciators.  <b><u>NOTE TO EVALUATOR:</u> 8-B-3 #11 DIESEL GEN NOT AUTO DG1/152-502 will come in on start signal, alarm will reset immediately.</b>
<b>Standard:</b>	Acknowledge annunciators.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b> <b>Critical: N</b>	Start generator G-3A by performing the following concurrently:  c. Locally, CHECK oil pressure gauge PI-7005, 11 EDG Lube Oil Pressure, has reached greater than 44 psig within 90 seconds.
<b>Standard:</b>	Contacted Turbine Building Operator to obtain status of Oil Pressure.
<b>Evaluator Cue:</b>	Report as Turbine Building Operator that Oil Pressure is 50 psig.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b> <b>Critical: N</b>	Concurrently, ALLOW generator G-3A to idle for 10 minutes, <u>AND</u> locally CHECK Engine for the following: a. No leakage from cylinder vent cocks. b. No leakage from crankcase inspection covers. c. Oil level between LOW (-12.5 inches) and FULL (0.0 inches) by performing the following: 1) Remove dipstick and wipe-off oil from tip. 2) Reinsert dipstick for 3 to 5 seconds <u>THEN</u> remove dipstick to read lube oil level. 3) Reinsert dipstick. d. No visual or audible abnormal indications.
<b>Standard:</b>	Directed Turbine Building Operator to perform checks.
<b>Evaluator Cue:</b>	Turbine Building Operator reports that all EDG local parameters are normal at idle speed, STEP 11 is complete and then inform the operator that 10 minutes has lapsed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b> <b>Critical: N</b>	CHECK air box drain for proper operation by performing the following: a. REMOVE Air Box Drain Plug downstream of valve DGN-6-1, 11 EDG Air Box Drain Valve. b. Slowly crack OPEN drain valve DGN-6-1. c. CHECK airflow from air box drain line. d. CLOSE valve DGN-6-1. e. INSTALL Air Box Drain Pipe Plug. f. <u>IF</u> no air flowed from Air Box Drain Line, <u>THEN</u> NOTIFY Shift Supervision before proceeding.
<b>Standard:</b>	Contacted Turbine Building Operator to check the air box drain.
<b>Evaluator Cue:</b>	Turbine Building Operator reports Procedure Step 12 has been satisfactorily completed.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b> <b>Critical: Y</b>	Place knob 11 EDG SPEED DROOP to scribe mark between 40 and 50 on the governor dial plate.
<b>Standard:</b>	Instructed Turbine Building Operator to place 11 EDG Speed Droop knob to scribe mark between 40-50 on governor dial plate.
<b>Evaluator Cue:</b>	Turbine Building Operator reports Speed Droop knob is to the scribe mark between 40 and 50 on the governor dial plate. <b>(Booth Operator Action: Insert remote DG10 for speed droop)</b>
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b> <b>Critical: N</b>	INDEPENDENTLY VERIFY knob 11 EDG SPEED DROOP is at scribe mark between 40 and 50 on the governor dial plate and log entry per PRECAUTIONS AND LIMITATIONS Item 3.
<b>Standard:</b>	Requested independent verification of previous step, and logs completion.
<b>Evaluator Cue:</b>	State that Independent verification is complete and is logged.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: Y</b>	PLACE and HOLD switch GSC1/CS, 11 Diesel Generator speed Adjust, in RAISE position, <u>WHEN</u> Generator Frequency Meter just comes on-scale, <u>THEN</u> release switch GSC1/CS.  <b><u>EVALUATOR NOTE:</u> This takes approximately 1 minute to occur while holding the switch in the RAISE position.</b>
<b>Standard:</b>	Raised speed until frequency meter comes on scale.
<b>Evaluator Cue:</b>	If asked, local operator reports speed rising.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: Y</b>	Parallel generator G-3A with 15 bus by performing the following: a. ADJUST generator G-3A speed with switch GSC1/CS until frequency is approximately 60 Hz.  Operator turns 11 EDG speed adjust control switch GSC1/CS to RAISE until frequency indicates approximately 60 Hz.
<b>Standard:</b>	Frequency approximately 60 HZ.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b> <b>Critical: N</b>	<b>NOTE: Switch 52-711/SS, 52-711 (LC-107 to LC-108 Bus tie Bkr) Sync Switch, in ON position will affect C-08 Synchroscope.</b>  Parallel generator G-3A with 15 bus per the following: b. VERIFY switch 52-711/SS in OFF position (Panel C-313).
<b>Standard:</b>	Verifies switch 52-711/SS in OFF position.
<b>Evaluator Cue:</b>	Sync switch on Panel C-313 is in the OFF position.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b> <b>Critical: Y</b>	Parallel generator G-3A with 15 bus per the following: c. <u>IF</u> frequency is near 60 HZ, <u>THEN</u> PLACE switch 152-502/SS, Sync 11 Stby Diesel Gen to Bus 15 ACB 152-502, in ON position.
<b>Standard:</b>	Places sync with to ON position.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b> <b>Critical: N</b>	Parallel generator G-3A with 15 bus per the following: d. CHECK the following: 1) Synchronizing pointer is moving. 2) Synchronizing Voltmeters and sensing lights are activated.
<b>Standard:</b>	Checks pointer moving and lights activated.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 14</b> <b>Critical: Y</b>	Parallel generator G-3A with 15 bus per the following: e. Establish synchronous conditions by performing the following:  <b><u>NOTE:</u> The SYNCHRONIZING INCOMING VOLTAGE meter indicates G-3A voltage. The SYNCHRONIZING RUNNING VOLTAGE meter indicates Bus 15 voltage.</b>  1) ADJUST switch 190-DG1/CS, 11 Diesel Generator Voltage Adjust, to match SYNCHRONIZING INCOMING VOLTAGE with SYNCHRONIZING RUNNING VOLTAGE. 2) ADJUST speed adjust switch GSC1/CS to establish clockwise Synchroscope Pointer rotation of one revolution in 30 to 120 seconds. 3) VERIFY Synchroscope is operating by observing Synchroscope Pointer make at least two complete revolutions
<b>Standard:</b>	Matches incoming and running voltage.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



**Performance Step: 15**

**Critical: Y**

**CAUTION 1**

To avoid possible overspeed trips of both generators, do not parallel generator G-3A and generator G-3B to the system simultaneously.

**CAUTION 2**

To avoid possible overspeed trip in case of system fault, do not parallel generator G-3A to an off-site power system in anticipation of a loss of off-site power.

**CAUTION 3**

Generator G-3A does not have Synchroscope interlock and therefore can be paralleled out of phase. Do not close breaker 152-502, G-3A (11 DG) to 15 Bus 4KV Supply, until synchronous conditions are met.

Parallel generator G-3A with 15 bus per the following:

- f. IF generator G-3B, 12 Emergency Diesel Generator, is NOT paralleled to the system,  
WHEN synchronous conditions are met (Synchroscope Pointer in green band),  
THEN CLOSE breaker 152-502.

**Standard:**

Closes EDG output breaker.

**Evaluator Cue:**

None

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

\_\_\_\_\_

**Performance Step: 16**

**Critical: Y**

Parallel generator G-3A with 15 bus per the following:

- g. Immediately, ADJUST speed adjust switch GSC1/CS to pick up 5% load (approximately 125 KW).

**Standard:**

Adjusts speed adjust switch GSC2/CS to pick up 5% load (approximately 125 KW).

**Evaluator Cue:**

None

**Performance:**

**SATISFACTORY**  **UNSATISFACTORY**

**Comments:**

\_\_\_\_\_

<b>Performance Step: 17</b>	Parallel generator G-3A with 15 bus per the following:
<b>Critical: N</b>	h. CHECK phase to phase voltages (A-B, B-C, C-A) are approximately equal.
<b>Standard:</b>	Checks phase to phase voltages (A-B, B-C, C-A) are approximately equal.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 18</b>	Parallel generator G-3A with 15 bus per the following:
<b>Critical: N</b>	i. CHECK phase currents (A, B, C) are approximately equal.
<b>Standard:</b>	Checks phase currents (A, B, C) are approximately equal.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 19</b>	RAISE load to 1875 KW using speed adjust switch GCS1/CS.
<b>Critical: Y</b>	
<b>Standard:</b>	Raises load to 1875 KW using speed adjust switch GCS1/CS.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 20</b>	HOLD load at 1875 KW,
<b>Critical: N</b>	<u>UNTIL</u> local Operator checks proper operation of G-3A.
<b>Standard:</b>	Holds load at 1875 KW for local Operator checks.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 21</b>	Locally, CHECK proper operation of generator G-3A.
<b>Critical: N</b>	a. No visual or audible abnormal indications. b. Temperature Regulating Valve is open. c. <u>IF</u> proper operation is confirmed, <u>THEN</u> NOTIFY Main Control Room.
<b>Standard:</b>	Directs Outplant Operator to perform local checks.
<b>Evaluator Cue:</b>	Report that the Temperature Regulating Valve is open and all diesel conditions are satisfactory.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 22</b>	RAISE load, as desired, up to 2500 KW maximum.
<b>Critical: Y</b>	
<b>Standard:</b>	Raises load to 2500 KW maximum.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 23</b>	<b>INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.</b>
<b>Critical: N</b>	
<b>Standard:</b>	Operator informs evaluator that the task is completed.
<b>Evaluator Cue:</b>	Acknowledge Report
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** AFTER D/G IS AT 2500 KW AND REPORT IS MADE, STATE THAT THE JPM IS COMPLETE.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

The task conditions are as follows:

- The Reactor is at power.
- The Emergency Diesel Generator System Engineer has requested that No. 11 EDG be started and loaded to 2500 KW to perform an in-service inspection.
- You are the Balance of Plant operator.

### INITIATING CUES (IF APPLICABLE):

The CRS directs you to manually start and load No. 11 EDG to 2500 Kw per the operations manual B.09.08-05.D.1. The Turbine Building Operator has completed the EDG In-plant Pre-Start Checks. Procedure STEPS 1 through 9 have been completed.”

**SIMULATOR SET UP:**

**NOTE: IC-237 supports this JPM and the D/W – Torus Vac Bkr JPM for the 2007 ILT exam**

From 100% power IC 15, perform the following:

- Lower the 11 EDG speed adjust control switch for ~15 seconds
- Insert remote PC01, DWV-13, N2 Gas Supply valve to OPEN
- Insert remote IA07, AI-38 Instrument Air Manual Isolation valve
- Insert override DS006-02, Vac Brkr AO-2382A red lamp to ON when test switch is taken to TEST
- When directed by Evaluator to place SBTG Train A in service (JPM step 21, place SBTG in service per B.04.02-05.D.3.

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.		None	00:00:00	00:00:00			

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.	DS006-02	Vac BKR AO-2382A Red Lamp	00:00:00	00:00:00	1	OFF	ON

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.	PC01	DWV-13, N2 Gas Supply Throttle Valve	00:00:00	00:00:00	N/A	0	100
2.	IA07	AI-38 Instrument Air Manual Isolation valve	00:00:00	00:00:00	N/A	100	100
3.	DG10	#11 Diesel Generator speed droop	00:00:00	00:00:00	N/A	IN	IN

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

\_\_\_\_\_  
Validation Personnel /Date

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Validation Personnel /Date

\_\_\_\_\_  
Validation Personnel/Date

Historical Record: (Optional)



**JPM Number:** JPM-B.05.11-001

**JPM Title:** Perform the Service Water Effluent Monitor Functional Test

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
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(See MTCP-03.32, Figure 6.2)
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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 power and all systems are operable. Steps 1 through 3 of Test 0289-A (SERVICE WATER EFFLUENT MONITOR FUNCTIONAL TEST) have been completed.
- Provide the operator with a copy of Test 0289-A.

**INITIATING CUES (IF APPLICABLE):**

- The Control Room Supervisor directs you to perform steps 4 through 14 of the Service Water Effluent Monitor Functional Test 0289-A. Steps 15 through 25 will be performed later by an operator and a Radiation Protection Specialist.

### JPM PERFORMANCE INFORMATION

**Required Materials:**

**General References:** Plant

**Task Standards:** Perform the Service Water Effluent Monitor functional Test

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	Place RM-17-351 Mode switch to STANDBY.
<b>Critical: Y</b>	
<b>Standard:</b>	On Panel C-10, places the Service Water Effluent Monitor, RM-17-351 Mode switch to STANDBY.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Verify the following:
<b>Critical: Y</b>	<ol style="list-style-type: none"> <li>1. INOP indicating light is ON.</li> <li>2. Annunciator 4-A-28 alarms.</li> <li>3. Computer point PRM002 (LIQUID PROCESS DWNSL/INOP) is typed out.</li> </ol>
<b>Standard:</b>	<ol style="list-style-type: none"> <li>1. On Panel C-10, verifies the INOP indicating light is ON.</li> <li>2. On Panel C-04, verifies annunciator 4-A-28 alarms.</li> <li>3. Computer point PRM002 typed out. <b>(Not Critical)</b></li> </ol>
<b>Evaluator Cue:</b>	None (NOTE: printer not modeled in simulator)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b>	Place RM-17-351 Mode switch to ZERO.
<b>Critical: Y</b>	
<b>Standard:</b>	On Panel C-10, places the Service Water Effluent Monitor, RM-17-351 Mode switch to ZERO.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b>	Verify the following:
<b>Critical: Y</b>	1. Recorder RR-4902 Ch. 4 indicates $10^{-1}$ cps $\pm$ 1/16 inch. 2. RM-17-351 meter indicates $10^{-1}$ cps $\pm$ 1/8 inch
<b>Standard:</b>	1. On Panel C-02, verifies recorder reading. 2. On Panel C-10, verifies meter reading.
<b>Evaluator Cue:</b>	After readings obtained and if questioned, state that meter indication is within 1/16 inch and/or state that recorder reading is within 1/8 inch.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	Place RM-17-351 Mode switch to 10.
<b>Critical: Y</b>	
<b>Standard:</b>	On Panel C-10, places the Service Water Effluent Monitor, RM-17-351 Mode switch to 10.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b>	Verify the following:
<b>Critical: Y</b>	<ol style="list-style-type: none"><li>1. Recorder RR-4902 Ch. 4 indicates 10 cps <math>\pm</math> 1/16 inch.</li><li>2. RM-17-351 meter indicates 10 cps <math>\pm</math> 1/8 inch.</li></ol>
<b>Standard:</b>	<ol style="list-style-type: none"><li>1. On Panel C-02, verifies the recorder reading.</li><li>2. On Panel C-10, verifies the meter indication.</li></ol>
<b>Evaluator Cue:</b>	After readings obtained and if questioned, state that meter indication is within 1/16 inch and/or state that recorder reading is within 1/8 inch.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b>	Place RM-17-351 Mode switch to 10 <sup>5</sup> .
<b>Critical: Y</b>	
<b>Standard:</b>	On Panel C-10, places the Service Water Effluent Monitor, RM-17-351 Mode switch to 10 <sup>5</sup> .
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 8</b>	Verify the following:
<b>Critical: Y</b>	<ol style="list-style-type: none"><li>1. Recorder RR-4902 Ch. 4 indicates 10<sup>5</sup> cps <math>\pm</math> 1/16 inch.</li><li>2. RM-17-351 meter indicates 10<sup>5</sup> cps <math>\pm</math> 1/8 inch.</li><li>3. Indicating light UPSCALE HIGH is on.</li><li>4. Annunciator 4-A-23 alarms.</li><li>5. Computer Point PRM001 (PROCESS LIQUID HI RAD) is typed out.</li></ol>
<b>Standard:</b>	<ol style="list-style-type: none"><li>1. On Panel C-02, verifies the recorder reading.</li><li>2. On Panel C-10, verifies the meter reading.</li><li>3. On Panel C-10, verifies the UPSCALE HIGH light is on.</li><li>4. On Panel C-04, verifies annunciator 4-A-23 alarms.</li><li>5. Verifies Computer Point PRM001 prints out. <b>(NOT Critical)</b></li></ol>
<b>Evaluator Cue:</b>	After readings obtained and if questioned, state that meter indication is within 1/16 inch and/or state that recorder reading is within 1/8 inch. (NOTE: printer not modeled in simulator)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 9</b> <b>Critical: Y</b>	Place RM-17-351 Mode witch to OPERATE.
<b>Standard:</b>	On Panel C-10, places the Service Water Effluent Monitor, RM-17-351 Mode switch to OPERATE.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: Y</b>	Actuate RM-17-351 reset switch.
<b>Standard:</b>	On Panel C-10, activates the reset switch on the Service Water Effluent Monitor RM-17-351.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b> <b>Critical: N</b>	Verify that the following reset: 1. Annunciator 4-A-23 2. Annunciator 4-A-28 3. Computer Alarm Point PRM001 4. Computer Alarm Point PRM002
<b>Standard:</b>	Verifies 4-A-23 and 4-A-24 Annunciator RESET. Verifies Computer Alarm Points PRM001 and PRM002 RESET.
<b>Evaluator Cue:</b>	None (NOTE: printer not modeled in simulator)
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b> <b>Critical: N</b>	<b>INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.</b>
<b>Standard:</b>	Operator informs evaluator that the task is completed.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

QF-1030-11 Rev. 2 (FP-T-SAT-30)

JPM-B.05.11-001 (PERFORM THE SERVICE WATER EFFLUENT MONITOR FUNCTIONAL TEST), Rev. 10

**Terminating Cues:** Inform the operator that the JPM is complete.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The plant is operating at power and all systems are operable. Steps 1 through 3 of Test 0289-A (SERVICE WATER EFFLUENT MONITOR FUNCTIONAL TEST) have been completed.
- Provide the operator with a copy of Test 0289-A.

### INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to perform steps 4 through 14 of the Service Water Effluent Monitor Functional Test 0289-A. Steps 15 through 25 will be performed later by an operator and a Radiation Protection Specialist.

**SIMULATOR SET UP:**

**Simulator Setup Instructions:**

- Any Power IC
- No malfunctions or overrides are required

Initialize to any IC which has the plant operating at power and the SW Effluent Monitor is operable.

Fill out 0289-A as follows:

- Sign Shift Supervisor approval to commence.
- Reason for performing – other:  X
- Initial steps 1 through 3.
- Place a check mark next to Test revision number.

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							



**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

\_\_\_\_\_  
 Validation Personnel /Date

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 Validation Personnel/Date

Historical Record: (Optional)

	<h2 style="margin: 0;">JOB PERFORMANCE MEASURE (JPM)</h2>
---	---

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** RESTORE SGBT TO A NORMAL STANDBY LINEUP

**JPM NUMBER:** JPM-B.04.02-002 **REV.** 5

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** CR999.261  
Operate the Standby Gas Treatment System

**K/A NUMBERS:** 261000 A3.01 **Rating: SRO/RO:** 3.2/3.3

**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 / Faulted:  No

**TASK APPLICABILITY:** SRO:   SRO/RO:  X  SRO/RO/NLO:

Additional signatures may be added as needed.

<b>Developed by:</b>	<b>J Ruth</b>		
	Instructor		Date
<b>Validated by:</b>	Validation Instructor (See JPM Validation Checklist, Attachment 1)		Date
<b>Approved by:</b>	Training Supervisor		Date

**JPM Number:** JPM-B.04.02-002

**JPM Title:** SSGT Operation

**Examinee:** \_\_\_\_\_

**Evaluator:** \_\_\_\_\_

**Job Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Start Time** \_\_\_\_\_

**Finish Time** \_\_\_\_\_

**PERFORMANCE RESULTS:**

**SAT:**

**UNSAT:**

<b>COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).</b>

**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
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(See MTCP-03.32, Figure 6.2)
------------------------------

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:**

- Reactor is at 100% power.
- "A" SBGT train is operating due to a spurious HI-HI trip of "B" Fuel Pool Rad Monitor.
- The Rad Monitor has been reset.
- You are the BOP operator

**INITIATING CUES (IF APPLICABLE):**

- The CRS directs you to restore SBGT to standby status in accordance with Ops Manual B.04.02-05.F.2.

**JPM PERFORMANCE INFORMATION**

**Required Materials:**

**General References:** B.04.02-05.F.2 Rev. 18

**Task Standards:** Restore SBGT to standby readiness.

**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).

**NOTE:** 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.

<b>Performance Step: 1</b>	Operator locates Procedure B.04.02-05.F.2 (SHUTDOWN AFTER AUTO INITIATION).
<b>Critical: N</b>	
<b>Standard:</b>	Locates B.4.2-05.F.2.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	Reset automatic initiation signal by momentarily placing the GROUP 2 ISOLATION VALVES RESET switch on Panel C-04 in the OUTBD and INBD positions.
<b>Critical: Y</b>	
<b>Standard:</b>	Resets Auto-initiation signal by turning GROUP 2 ISOLATION VALVES RESET switch to both the INBD (CCW) and OUTBD (CW) positions.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 3</b>	<u>IF</u> SBGT A Train and SBGT B Train are both operating, <u>THEN</u> perform Ops Manual Procedure B.04.02-05.F.1.
<b>Critical: N</b>	
<b>Standard:</b>	N/A
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b> <b>Critical: N</b>	[ITS] <u>IF</u> A Train is operating and B Train is in Standby, <u>THEN</u> : a. [ITS] Enter appropriate Tech Spec Condition: 1) [ITS] <u>IF</u> SGBT B Train in Standby, <u>THEN</u> enter Tech Spec 3.6.4.3 Condition A.
<b>Standard:</b>	Notifies Shift Supervision of entry into Tech Spec LCO.
<b>Evaluator Cue:</b>	Tech Spec LCO entered and appropriate notifications complete; logged in CR log.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b> <b>Critical: Y</b>	<u>IF</u> A Train is operating and B Train is in Standby or inoperable <u>THEN</u> : b. Perform the following switch lineup: 1. V-EF-17A to ON 2. AO-2945 to OPEN 3. AO-2979 to OPEN 4. Place HS-2988A to Position 1 (MANUAL)
<b>Standard:</b>	1. Operator places V-EF-17A (HS-2983A) to ON <u>AND</u> 2. Places AO-2945 (HS-2945) to OPEN <u>AND</u> 3. Places AO-2979 (HS-2979) to OPEN <u>AND</u> 4. Places HS-2988A to Position 1 (MANUAL)
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



<p><b>Performance Step: 7</b>  <b>Critical: Y</b></p>	<p><b>NOTE:</b> Step 3.d. may be performed concurrently with the remaining steps.  <u>IF</u> A Train is operating and B Train is in Standby or inoperable  <u>THEN:</u></p> <ol style="list-style-type: none"> <li>d. WHEN <math>\Delta T</math> on DTI-2955 and DTI-2954 &lt; 5°F,  <u>THEN</u> perform the following:             <ol style="list-style-type: none"> <li>1) Verify Steps 5.a through 5.h have been performed.</li> <li>2) Perform the following switch lineup:                 <ol style="list-style-type: none"> <li>a. V-EF-17A to OFF</li> <li>b. AO-2945 to CLOSE</li> <li>c. AO-2979 to CLOSE</li> <li>d. HS-2988A to Position 2 (AUTO)</li> </ol> </li> <li>3) [ITS] Exit Tech Spec 3.6.4.3 Condition A for SBTG A.</li> </ol> </li> </ol>
<p><b>Standard:</b></p>	<p><b>(Non Critical)</b> Verifies Steps 5.a through 5.h have been performed. (see steps 9-14) and notifies the CRS to exit Tech Spec 3.6.4.3 Condition A for SBTG A.</p> <p><b>(Critical)</b> Verifies the following switch lineup:</p> <ol style="list-style-type: none"> <li>1. V-EF-17A to OFF</li> <li>2. AO-2945 to CLOSE</li> <li>3. AO-2979 to CLOSE</li> <li>4. HS-2998A to Position 2 (AUTO)</li> </ol>
<p><b>Evaluator Cue:</b></p>	<p>None (NOTE: JPM steps 9 – 14 may be completed before JPM steps 7 &amp; 8)</p>
<p><b>Performance:</b></p>	<p><b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/></p>
<p><b>Comments:</b></p>	<p>_____</p>

<p><b>Performance Step: 8</b>  <b>Critical: N</b></p>	<p>[ITS] <u>IF</u> B Train is operating and A Train is in standby,  <u>THEN:</u></p>
<p><b>Standard:</b></p>	<p>STEPS 4.a through 4.d. are N/A, as B Train was not operating.</p>
<p><b>Evaluator Cue:</b></p>	<p>None</p>
<p><b>Performance:</b></p>	<p><b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/></p>
<p><b>Comments:</b></p>	<p>_____</p>



<b>Performance Step: 9</b> <b>Critical: Y</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows: a. Evaluate Tech Specs 3.6.4.2 and enter applicable Condition for SCTMT Isolation Dampers V-D-23, V-D-24, V-D-25, V-D-26, V-D-39, and V-D-40
<b>Standard:</b>	Notifies Shift Supervision of need to evaluate Tech Spec.
<b>Evaluator Cue:</b>	Tech Spec Conditions are entered and appropriate notifications complete; logged in CR log.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 10</b> <b>Critical: Y</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows: b. On Panel C-24A, place HS-4887 to BYPASS. c. On Panel C-24B, place HS-4888 to BYPASS.
<b>Standard:</b>	1. Places HS-4887 to BYPASS. 2. Places HS-4888 to BYPASS.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 11</b> <b>Critical: N</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows:  d. At Panel C-20, verify that the previously operating Reactor Building Plenum Exhaust Fans indicate ON.
<b>Standard:</b>	On C-20, verifies the red indicating lights for V-EF-20 and V-EF-22 are ON.
<b>Evaluator Cue:</b>	If asked, state that V-EF-20 and V-EF-22 were previously operating.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 12</b> <b>Critical: Y</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows:  e. Depress both RESET pushbuttons on Panels C-24A and C-24B.
<b>Standard:</b>	Depresses both RESET pushbuttons.
<b>Evaluator Cue:</b>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 13</b> <b>Critical: N</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows:  f. At Panel C-20, verify previously operating Reactor Building fans indicate ON.
<b>Standard:</b>	At C-20, verifies that the red indicating lights for the Reactor Building ventilation are ON.
<b>Evaluator Cue:</b>	If asked, state that V-AC-10A , V-AC-10B, V-EF-28, V-EF-10, and V-AH-4A were previously operating. (NOTE: V-EF-10 may be requested to be started at this time).
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 14</b>	Restore Reactor Building, Radwaste Building, and Turbine Building ventilation as follows:
<b>Critical: Y</b>	
	g. On Panel C-24A, place HS-4887 to NORMAL. h. On Panel C-24B, place HS-4888 to NORMAL.
<b>Standard:</b>	1. Places HS-4887 to NORMAL. 2. Places HS-4888 to NORMAL.
<b>Evaluator Cue:</b>	After the completion of this step, state that another operator will be assigned to complete this procedure.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

**Terminating Cues:** Inform candidate that the JPM is complete.

**Stop Time:** \_\_\_\_\_

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- Reactor is at 100% power.
- "A" SBTG train is operating due to a spurious HI-HI trip of "B" Fuel Pool Rad Monitor.
- The Rad Monitor has been reset.
- You are the BOP operator

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to restore SBTG to standby status in accordance with Ops Manual B.04.02-05.F.2.

**SIMULATOR SET UP:**

**Simulator Setup Instructions:**

- Any at power IC and perform the following:
  - Insert malfunction RM01G PRM G HIGH SPENT FUEL POOL CH B
  - Verify SBGT Train A is running and B is in Standby
  - Delete malfunction RM01G PRM G HIGH SPENT FUEL POOL CH B
  - Reset RM01G on back panel

**SIMULATOR - MALFUNCTIONS:**

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

**SIMULATOR - REMOTE FUNCTIONS:**

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**SIMULATOR - OVERRIDES:**

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

**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 signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input 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 type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input 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 type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

\_\_\_\_\_  
 Validation Personnel /Date

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 Validation Personnel/Date

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 Validation Personnel/Date

Historical Record: (Optional)