



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** TRANSFER EDG COOLING FROM EDG-ESW TO SERVICE WATER

**JPM NUMBER:** B.08.01.02-05-001 **REV.** 1

**RELATED PRA INFORMATION:** NONE

**TASK NUMBER(S) / TASK TITLE(S):** CR264.107  
Perform the Actions for a Failure of the EDG-ESW Equipment to Auto Initiate on EDG Start

**K/A NUMBERS:** 295018 AA1.01 **Rating: SRO/RO:** 3.4 / 3.3

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

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

Time for Completion: 15 Minutes Time Critical: 10 min

Alternate Path / Faulted: NO

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

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.08.01.02-05-001

**JPM Title:** Transfer EDG Cooling from EDG-ESW to Service Water

**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:**

- A plant transient has occurred
- D/W pressure has exceeded 2 psig
- Both EDGs have started
- A loss of off site power has occurred
- 11 ESW pump is degrading
- 11 EDG-ESW low flow annunciator is in alarm
- You are an extra plant operator

**INITIATING CUES (IF APPLICABLE):**

- The CRS directs you to transfer EDG cooling from EDG-ESW to Service Water.
- This JPM is time critical

**JPM PERFORMANCE INFORMATION**

**Required Materials:** B.08.01.02-05

**General References:**

**Task Standards:** Open SW-239-1 and then calls the control room to shutdown P111A, 11 ESW pump, within 10 minutes of valve opening.

**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>	Obtain copy of procedure B.08.01.02-05
<b>Critical: N</b>	
<b>Standard:</b>	Obtains copy of procedure
<b>Evaluator Cue:</b>	When procedure is obtained, provide a copy of procedure to operator.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	<u>IF</u> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u> perform the following:
<b>Critical: N</b>	a. Verify OPEN AO-1575, Service Water to “A” ESW Isolation.
<b>Standard:</b>	Verifies AO-1575 is OPEN
<b>Evaluator Cue:</b>	State that the valve stem is up.
<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> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u>
<b>Critical: N</b>	perform the following: b. If valve AO-1575 fails to OPEN, THEN perform the following (1) Close air isolation valve AI-1575, SW/ESW Cross-tie (2) Break air connection from SV-1575, Service Water to "A" ESW Isolation, to the air operator (to vent the operator) (3) Verify AO-1575 OPEN
<b>Standard:</b>	Not required as valve is verified to be 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: 4</b>	<u>IF</u> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u>
<b>Critical: N</b>	perform the following: c. Notify CRS to declare G-3A, 11 Emergency Diesel Generator inoperable and enter the applicable condition for Tech Spec 3.7.3
<b>Standard:</b>	Notifies CRS to declare No.11 EDG-ESW system inoperable and enter the applicable condition for Tech Spec 3.7.3.
<b>Evaluator Cue:</b>	Acknowledge the report
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	<u>IF</u> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u>
<b>Critical: Y</b>	perform the following: d. OPEN SW-239-1, Service Water Isolation to A ESW, AND perform Step e. below without delay.
<b>Standard:</b>	Opens valve SW-239-1
<b>Evaluator Cue:</b>	Valve hand wheel is turning, stem is rising, resistance is met (to simulate valve opening)
<b>Critical Time Start:</b>	Critical time start point when the operator acknowledges that SW-239-1 is OPEN. Time Critical Start Time: _____
<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>	<u>IF</u> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u> perform the following: e. <u>IF</u> P-111A, 11 ESW Pump, is running, <u>THEN</u> STOP P-111A.
<b>Standard:</b>	Informs the control room to secure P-111A.
<b>Evaluator Cue:</b>	Acknowledge the report and state that P111A is shut down.
<b>Critical Time Stop:</b>	Critical time stop is when the operator reports to the control room that SW-239-1 is open and to shutdown pump P-111A. Time Critical Stop Time: _____
<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>	<u>IF</u> G-3A, 11 Emergency Diesel Generator, is to be cooled by Service Water, <u>THEN</u> perform the following: f. Verify flow greater than 370 gpm as read on FI-4224A, 11 EDG-ESW Low Flow Alarm.
<b>Standard:</b>	Verifies low flow alarm is clear
<b>Evaluator Cue:</b>	When observed, state the low flow annunciator is cleared.
<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>	<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>	When the low flow alarm has been verified to be cleared, 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 the low flow alarm has been verified to be cleared, state that the JPM is completed.

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

**Critical Time** \_\_\_\_\_ (must be ≤ 10 minutes)

## TURNOVER SHEET

### INITIAL CONDITIONS:

- A plant transient has occurred
- D/W pressure has exceeded 2 psig
- Both EDGs have started
- A loss of off site power has occurred
- 11 ESW pump is degrading
- 11 EDG-ESW low flow annunciator is in alarm
- You are an extra plant operator

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to transfer EDG cooling from EDG-ESW to Service Water.
- This JPM is time critical

**SIMULATOR SET UP:**

No simulator setup required; this is an in-plant JPM.

**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

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 Validation Personnel /Date

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

Historical Record: (Optional)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** NO. 11 EDG OPERATION WITHOUT DIVISION I BATTERY

**JPM NUMBER:** JPM-B.09.08-008 **REV.** 4

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** AA1.02  
K6.09

**K/A NUMBERS:** 295004 **Rating: SRO/RO:** 3.3/3.5  
264000 3.8/4.1

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

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.09.08-008

**JPM Title:** No. 11 Operation without Division I Battery

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

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 with Div I 125 Vdc Battery inoperable. A severe thunderstorm strikes the subyard causing a loss of all offsite power. No. 12 EDG failed to start for unknown reasons.
- You are an extra operator on shift.

**INITIATING CUES (IF APPLICABLE):**

- The CRS directs you to perform STEPS 1 through 14 of Procedure B.9.8-05-H.5 (11 EDG Operation with Loss of Division I 125 Vdc Battery) in order to restore No. 11 EDG to service. STEP 15 will be completed by another Operator.
- The applicable tech spec conditions associated with the performance of this procedure have been addressed by shift supervision.
- The prerequisites are satisfied.
- All electrical circuit points have been checked dead and verified de-energized.
- Inform the CRS when the 11 EDG is in service.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED.**

**Note to Evaluator: PRIOR TO CONDUCTING THIS JPM, NOTIFY THE CONTROL ROOM AND WORK CONTROL OF THE NEED TO OPEN PANEL C-91 TO SIMULATE JUMPER INSTALLATION (JPM STEP 6).**

### JPM PERFORMANCE INFORMATION

**Required Materials:**

**General References:** B.09.08-05.H.5 Rev. 26

**Task Standards:** Operate No. 11 EDG with Loss of Div I 125 Vdc Battery

**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.H.5 (11 EDG Operation with Loss of Division I 125 Vdc Battery).
<b>Critical: N</b>	
<b>Standard:</b>	Locates appropriate procedure.
<b>Evaluator Cue:</b>	Provide operator with copy of procedure.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	

<b>Performance Step: 2</b>	
<b>Critical: Y</b>	1. At C-08, place No. 11 EDG Control Switch in PULL TO LOCK.
<b>Standard:</b>	Contacts Control Room and requests that STEP 1 be performed, No. 11 EDG control switch to PTL.
<b>Evaluator Cue:</b>	No. 11 EDG control switch is in PTL.
<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: Y</b>	2. In the lower 4 KV Room, locally turn OFF the following circuits on D111: a. D111-11 b. D111-12 c. D111-22
<b>Standard:</b>	Places the listed circuits to OFF.
<b>Evaluator Cue:</b>	After the operator simulates positioning each circuit to OFF state that that circuit is pushed down and OFF.
<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: Y</b>	3. In the upper 4 KV Room, locally turn OFF Circuit D211-12.
<b>Standard:</b>	Places D211-12 to OFF.
<b>Evaluator Cue:</b>	After the operator simulates positioning the circuit to OFF state that that circuit is pushed down and OFF.
<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>	4. In the 11 Diesel Generator Room, OPEN the following breakers located on Panel C-91: a. CB ALARM b. CB START 1 c. CB START 2 d. AC CONTROL e. DC CONTROL
<b>Standard:</b>	Places the listed breakers to the OPEN position.
<b>Evaluator Cue:</b>	After the operator simulates positioning each circuit to OFF state that that circuit is pushed down and OFF.
<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>	5. In Panel C-91, connect prestaged jumpers (located in box under tool box in 11 EDG Room) as follows to provide field flash and local electrical control for 11 EDG: a. From 35WL2 to 35WL4 b. From 35WL2 to 35WL5 c. From 35WR2 to 35WR4 d. From 35WR2 to 35WR5
<b>Standard:</b>	Places jumpers on correct terminals.  <b>Doors are only to be opened with concurrence from operations and work control.</b>
<b>Evaluator Cue:</b>	When operator identifies location of jumpers, do not take jumpers from the designated location. After each jumper point has been identified, states that the jumpers have been positioned correctly.
<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>	6. Close the following breakers at C-91: a. CB START 2 b. AC CONTROL c. DC CONTROL
<b>Standard:</b>	Closes the listed breakers on C-91.
<b>Evaluator Cue:</b>	After the operator simulates positioning each breaker to CLOSE, state that the breaker is pushed up and 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>	7. In the upper 4 KV Room, locally turn on Circuit D211-12.
<b>Standard:</b>	Places Circuit D211-12 to ON.
<b>Evaluator Cue:</b>	After the operator simulates positioning the circuit to ON, state that the circuit 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>	8. Station an operator in the Diesel Generator Room to monitor EDG operation.
<b>Standard:</b>	Operator may call Control Room to inform them that an operator is required to be stationed in the EDG Room.
<b>Evaluator Cue:</b>	If requested, state that you are this operator.
<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>	9. At C-91, place the PREFERRED START selector switch in position 2.
<b>Standard:</b>	Places PREFERRED START switch to Position 2.
<b>Evaluator Cue:</b>	After the operator simulates placing the switch in position 2, state that the PREFERRED START switch is in Position 2.
<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>	<b><u>NOTE:</u> Because it is anticipated that this procedure will be used in an emergency when time to restore power is critical, normal preparations to start the EDG are not required. If time allows, these items (such as barring over the engine and draining the air box) should be performed. See Procedure B.09.08-05.D.1, 11 Emergency Diesel Generator Startup.</b>
	10. At C-08, place 11 EDG Control Switch momentarily to START and return to AUTO.
<b>Standard:</b>	Calls Control Room to inform them to complete STEP 10.
<b>Evaluator Cue:</b>	Control Switch is positioned to START. You can hear the engine start. If asked about barring and/or draining the air box, state that time does not allow.
<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>	11. At C-93, check oil pressure (PI-7005). It should build up to >44 psig within 90 seconds.
<b>Standard:</b>	Verifies oil pressure is >44 psig on C-93.
<b>Evaluator Cue:</b>	When PI-7005 is monitored, state that it reads 50 psig.
<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>	12. At C-91, close CB ALARM.
<b>Standard:</b>	At C-91 closes CB ALARM.
<b>Evaluator Cue:</b>	After the operator simulates placing the switch to close, state that CB ALARM breaker is pushed up and is 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>	13. At C-08, verify 11 EDG frequency is approximately 60 Hz and voltage is above 4000 Volts.
<b>Standard:</b>	Contacts Control Room and requests that STEP 13 be completed.
<b>Evaluator Cue:</b>	STEP 13 is complete. Frequency is 60 Hz, voltage is >4000.
<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>	<b>NOTE: Operation of Breaker 152-502 may be by normal remote or local means, depending on the plant situation.</b>
	14. Close Breaker 152-502, 11 EDG OUTPUT BREAKER.
<b>Standard:</b>	Contacts Control Room and requests that STEP 14 be completed. (Candidate may elect to locally close breaker)
<b>Evaluator Cue:</b>	STEP 14 is complete.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	

<b>Performance Step:</b> 16	<b>INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.</b>
<b>Critical:</b> N	
<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>	<b>DO NOT PROMPT.</b>

**Terminating Cues:** When informed that the EDG output breaker is closed, the operator should inform the CRS that the task is complete. At that time, inform the operator that the JPM is complete.

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

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The plant is at power with Div I 125 Vdc Battery inoperable. A severe thunderstorm strikes the subyard causing a loss of all offsite power. No. 12 EDG failed to start for unknown reasons.
- You are an extra operator on shift.

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to perform STEPS 1 through 14 of Procedure B.9.8-05-H.5 (11 EDG Operation with Loss of Division I 125 Vdc Battery) in order to restore No. 11 EDG to service. STEP 15 will be completed by another Operator.
- The applicable tech spec conditions associated with the performance of this procedure have been addressed by shift supervision.
- The prerequisites are satisfied.
- All electrical circuit points have been checked dead and verified de-energized.
- Inform the CRS when the 11 EDG is in service.

**ALL OPERATOR ACTIONS ARE TO BE SIMULATED.**

**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)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** STARTUP OF AIR DRIVEN COMPRESSORS FOR MAIN AIR SUPPLY TO OUTBOARD MSIVS

**JPM NUMBER:** B.02.04.05-003 **REV.** 0

**RELATED PRA INFORMATION:** NONE

**TASK NUMBER(S) / TASK TITLE(S):** NL999.240  
Main Steam Isolation Valve (MSIV) System

**K/A NUMBERS:** 239001 K1.12 **Rating: SRO/RO:** 2.6 / 2.5

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

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- B.02.04.05-003 (STARTUP OF AIR DRIVEN COMPRESSORS FOR MAIN AIR SUPPLY TO OUTBOARD MSIVS) Rev 0

**JPM Number:** B.02.04.05-003

**JPM Title:** Startup of Air Driven Compressors for Main Air Supply to Outboard MSIVs

**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 in MODE 1
- Annunciator 3-B-34, OUTB MSIV LOW AIR PRESSURE, is in alarm
- You are an extra plant operator

**INITIATING CUES (IF APPLICABLE):**

- The CRS directs you to perform a Startup of Air Driven Compressors for Main Air Supply to Outboard MSIVs per B.02.04.
- Procedure Steps 1 and 2 have been performed by another operator.

**JPM PERFORMANCE INFORMATION**

**Required Materials:** B.02.04.05

**General References:**

**Task Standards:** Startup of Air Driven Compressors for Main Air Supply to Outboard MSIVs

**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>	Obtain copy of procedure B.02.04.05
<b>Critical: N</b>	
<b>Standard:</b>	Obtains copy of procedure
<b>Evaluator Cue:</b>	When procedure is obtained, provide a copy of procedure to operator.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 2</b>	OPEN the following compressor process air valves:
<b>Critical: Y</b>	a. AI-733, K-5B (Air Driven Cmprs) Process Supply Isol b. AI-765, K-5A (Air Driven Cmprs) Process Supply Isol
<b>Standard:</b>	OPENS valves
<b>Evaluator Cue:</b>	State that the valve operator rotates 90° to align with piping. You hear noise from the compressor.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____



<b>Performance Step: 3</b>	OPEN the following compressor drive air valves:
<b>Critical: Y</b>	a. AI-734, Isol for Drive Supply to K-5B (Air Driven Cmprs) b. AI-766, Isol for Drive Supply to K-5A (Air Driven Cmprs)
<b>Standard:</b>	OPENS valves
<b>Evaluator Cue:</b>	State that the valve operator rotates 90° to align with piping.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 4</b>	Adjust PCV-4920, Otbd MSIV Main Air Supply PCV (from K-5A/B), until 275-285 psig air pressure is obtained as indicated on PI-4919.
<b>Critical: Y</b>	
<b>Standard:</b>	Raises air pressure to 275-285 psig
<b>Evaluator Cue:</b>	State that the PCV control knob is turning in the clockwise direction. State that PI-4920 indicates 280 psig.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</b>	OPEN the following compressor discharge valves:
<b>Critical: Y</b>	a. AI-739, Inbd Isol Vlv for K-5A/B Disch (Air Driven Cmprs) b. AI-740, Otbd Isol Vlv for K-5A/B Disch (Air Driven Cmprs)
<b>Standard:</b>	OPENS valves
<b>Evaluator Cue:</b>	State that the valve operator rotates 90° to align with piping.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 6</b>	Observe until system pressure increase is detected.
<b>Critical: N</b>	
<b>Standard:</b>	Verifies system pressure increase.
<b>Evaluator Cue:</b>	State that PI-4919 indication is rising. PI-4919 now indicates 280 psig. Report as Lead Operator that annunciator 3-B-34 has cleared.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 7</b>	Report to the Control Room that the Air Driven Compressors are in service.
<b>Critical: N</b>	
<b>Standard:</b>	Reports task complete
<b>Evaluator Cue:</b>	Acknowledge report. State that JPM is complete.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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

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

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- Plant is operating in MODE 1
- Annunciator 3-B-34, OUTB MSIV LOW AIR PRESSURE, is in alarm
- You are an extra plant operator

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to perform a Startup of Air Driven Compressors for Main Air Supply to Outboard MSIVs per B.02.04.
- Procedure Steps 1 and 2 have been performed by another operator.

**SIMULATOR SET UP:**

No simulator setup required; this is an in-plant JPM.

**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.

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 Validation Personnel/Date

Historical Record: (Optional)



## JOB PERFORMANCE MEASURE (JPM)

**SITE:** MONTICELLO NUCLEAR GENERATING PLANT

**JPM TITLE:** DEPRESSURIZE THE SCRAM AIR HEADER LOCALLY PER C.5-3101, PART B

**JPM NUMBER:** JPM-C.5-3101-002 **REV.** 7

**RELATED PRA INFORMATION:** None

**TASK NUMBER(S) / TASK TITLE(S):** NL314.101  
Perform actions associated with Alternate Rod Insertion

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

**APPLICABLE METHOD OF TESTING:**

Discussion:  Simulate/walkthrough:  Perform:

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

Time for Completion: 10 Minutes Time Critical: No

Alternate Path / Faulted: No

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

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-C.5-3101-002

**JPM Title:** Depressurize the Scram Air Header Locally per C.5-3101, Part B

**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:**

- The Main Turbine tripped from 100% power and a valid scram signal exists.
- The scram bus lights are off, but no control rod movement has been observed.
- Other methods of control rod insertion have been unsuccessful.
- You are an extra operator on shift

**INITIATING CUES (IF APPLICABLE):**

- Control Room Supervisor directs you to depressurize the scram air header locally using C.5-3101, PART B.



### JPM PERFORMANCE INFORMATION

**Required Materials:** None

**General References:** Plant

**Task Standards:** Locally vent scram air header during ATWS condition.

**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** IF the scram air header is to be depressurized locally,  
**Critical: N** AND the Reactor Building is accessible,  
THEN perform the following:  
a. Verify the scram air header is pressurized (local pressure indicator PI 3/229).

**Standard:** Locates PI 3/229 and observes pressure.

**Evaluator Cue:** 1. Reactor Building is accessible.  
2. PI 3/229 indicates 65 psig, or as indicated on PI3/229.

**Performance:** SATISFACTORY  UNSATISFACTORY

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

**Performance Step: 2** IF the scram air header is to be depressurized locally,  
**Critical: Y** AND the Reactor Building is accessible,  
THEN perform the following:  
b. CLOSE AI-15, SCRAM AIR FILTER INLET.

**Standard:** Closes AI-15.

**Evaluator Cue:** Valve turns clockwise. Resistance is felt and valve is tight.

**Performance:** SATISFACTORY  UNSATISFACTORY

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

<b>Performance Step: 3</b> <b>Critical: Y</b>	<u>IF</u> the scram air header is to be depressurized locally, <u>AND</u> the Reactor Building is accessible, <u>THEN</u> perform the following: c. Remove the Scram Air Hdr Disconnect Coupling.
<b>Standard:</b>	Disconnects the Scram Air Header Disconnect Coupling.
<b>Evaluator Cue:</b>	Wrench turns coupling in counterclockwise direction until coupling is removed. You hear air bleed-off through coupling and PI 3/229 now indicates 0 psig. <b>(Dedicated wrenches are staged at the scram air header vicinity.)</b>
<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>	<u>IF</u> the scram air header is to be depressurized locally, <u>AND</u> the Reactor Building is accessible, <u>THEN</u> perform the following:  d. <u>WHEN</u> the control rods no longer move inward, <u>THEN</u> restore the Scram Air Header by performing the following: 1. Reconnect the Scram Air Header Disconnect Coupling. 2. OPEN AI-15, SCRAM AIR FILTER INLET.
<b>Standard:</b>	1. Asks if control rods are moving inward. 2. Connects the Scram Air Header Disconnect Coupling. 3. Opens AI-15.
<b>Evaluator Cue:</b>	1. Evaluator reports all control rods have fully inserted. 2. Wrench is turning Coupling in the clockwise direction, resistance felt, coupling tight. 3. AI-15 moves CCW, stem moving outward, resistance felt and valve is tight. PI 3/229 indicates 67 psig, or as indicated on PI3/229.
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

<b>Performance Step: 5</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>	None
<b>Performance:</b>	<b>SATISFACTORY</b> <input type="checkbox"/> <b>UNSATISFACTORY</b> <input type="checkbox"/>
<b>Comments:</b>	_____

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

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

**Critical Time**   N/A

## TURNOVER SHEET

### INITIAL CONDITIONS:

- The Main Turbine tripped from 100% power and a valid scram signal exists.
- The scram bus lights are off, but no control rod movement has been observed.
- Other methods of control rod insertion have been unsuccessful.
- You are an extra operator on shift

### INITIATING CUES (IF APPLICABLE):

- Control Room Supervisor directs you to depressurize the scram air header locally using C.5-3101, PART B.

**SIMULATOR SET UP:**

No simulator setup required; this is an in-plant JPM.

**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"/>
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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.

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 Validation Personnel/Date

Historical Record: (Optional)