

OPERATOR TRAINING PROGRAM  
JOB PERFORMANCE MEASURE

<b>STATION:</b>	SALEM		
<b>SYSTEM:</b>	Instrumentation (SF 7) – Reactor Protection System		
<b>TASK:</b>	Locally Open Reactor Trip Breakers IAW AB.CR-0001.		
<b>TASK NUMBER:</b>	1130070501		
<b>JPM NUMBER:</b>	20-01 NRC IP-j		
<b>ALTERNATE PATH:</b>	<input type="checkbox"/>	<b>K/A NUMBER:</b>	012 A4.06
<b>APPLICABILITY:</b>		<b>IMPORTANCE FACTOR:</b>	
EO <input type="checkbox"/>	RO <input checked="" type="checkbox"/>	STA <input type="checkbox"/>	SRO <input checked="" type="checkbox"/>
<b>EVALUATION SETTING/METHOD:</b>	In Plant / Simulate		
<b>REFERENCES:</b>	S1.OP-AB.CR-0001, Rev. 19 (checked 9-10-21)		
<b>TOOLS AND EQUIPMENT:</b>	None		
<b>VALIDATED JPM COMPLETION TIME:</b>	<u>25 min</u>		
<b>TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS:</b>	<u>N/A</u>		
<b>Developed By:</b>	<b>K, Hantho</b> Instructor	<b>Date:</b>	<b>9-20-21</b>
<b>Validated By:</b>	<b>Harris / Stockton</b> SME or Instructor	<b>Date:</b>	<b>9-20-21</b>
<b>Approved By:</b>	<b>M. Wadusky (signature on file)</b> Training Department	<b>Date:</b>	<b>2-10-22</b>
<b>Approved By:</b>	<b>W. Hargrave</b> Operations Department	<b>Date:</b>	<b>1-11-22</b>
<b>ACTUAL JPM COMPLETION TIME:</b>			
<b>ACTUAL TIME CRITICAL COMPLETION TIME:</b>			
<b>PERFORMED BY:</b>			
<b>GRADE:</b>	<input type="checkbox"/> SAT	<input type="checkbox"/> UNSAT	
<b>REASON, IF UNSATISFACTORY:</b>			
<b>EVALUATOR'S SIGNATURE:</b>			<b>DATE:</b>

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**REVISION HISTORY**

**JPM NUMBER: 20-01 NRC ILOT IP-j**

<b>Rev #</b>	<b>Date</b>	<b>Description</b>	<b>Validation Required</b>
00	6-20-17	Added revision history and simulator setup pages. Editorial comments from IP 71111.11 FASA. Incorporated comments from validation.	No
N/A	6-25-19	Last used on 2019 Annual Exam. Re-validation not required.	No
01	9-10-21	Checked revision of procedure for changes and updated attachment 5 sht 1 of 4 only change was rev. number.	No

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**SIMULATOR SETUP INSTRUCTIONS**

**SYSTEM:** Instrumentation (SF 7) – Reactor Protection System  
**TASK:** Locally Open Reactor Trip Breakers IAW AB.CR-0001.  
**TASK NUMBER:** 1130070501  
**SIMULATOR IC:** N/A  
**MALFUNCTIONS / REMOTES:** N/A

**OVERRIDES:** N/A

**SPECIAL INSTRUCTIONS:**

- This JPM is located inside the Unit 1 RCA AND 84' Switchgear Room.

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NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

**SYSTEM:** Instrumentation (SF 7) – Reactor Protection System

**TASK:** Locally Open Reactor Trip Breakers IAW AB.CR-0001.

**TASK NUMBER:** 1130070501

**INITIAL CONDITIONS:**

- The Unit 1 Control Room has been evacuated in accordance with S1.OP-AB.CR-0001, Control Room Evacuation.
- A reactor trip was **NOT** initiated prior to evacuating the Control Room.

**INITIATING CUE:**

- You are directed to perform **Unit 1** S1.OP-AB.CR-0001, Control Room Evacuation, Attachment 5.

Successful Completion Criteria:

1. All critical steps completed.
2. All sequential steps completed in order.
3. All time-critical steps completed within allotted time.
4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

**Task Standard for Successful Completion:**

1. **Locally opens Reactor Trip and Bypass Breakers**
2. **Locally opens breakers for 13 Charging Pump and 1CV175 Rapid Borate valve.**

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 DATE: \_\_\_\_\_

**SYSTEM:** Instrumentation (SF 7) – Reactor Protection System  
**TASK:** Locally Open Reactor Trip Breakers IAW AB.CR-0001.

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
		Evaluator provide blank copy of Attachment 5, and state: "You have a radio and all required keys."			
		Operator reviews S1.OP-AB.CR-0001, Att. 5, and proceeds to El. 84 switchgear room.			
	CUE:	Fill in the JPM Start Time when the student acknowledges the Initiating Cue.  <b>START TIME:</b> _____			
	1.0	<b>OBTAIN</b> the following: <ul style="list-style-type: none"> <li>• One copy of this procedure.</li> <li>• One radio (located in Appendix "R" Cabinet)</li> <li>• Key ring set and tools (JA Master, Breaker Keyswitch, screwdriver and adjustable wrench).</li> <li>• A Security Master Key from the Unit 1 CRS (located on the Unit 1 Security Key Ring)</li> </ul>	<b>Cue: You have all the necessary materials for your task.</b>		

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DATE: \_\_\_\_\_

**SYSTEM:** Instrumentation (SF 7) – Reactor Protection System  
**TASK:** Locally Open Reactor Trip Breakers IAW AB.CR-0001.

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	2.0	<b>PROCEED</b> to Rod Drive MG Set Control Panel (460V Vital Bus Room-EI 84'), AND <b>OPEN</b> the following breakers:  2.1 Reactor Trip Breaker A 2.2 Reactor Trip Breaker B 2.3 Reactor Trip Bypass Breaker A 2.4 Reactor Trip Bypass Breaker B.	<b>Operator simulates opening breakers by simulating removing cover <u>and</u> depressing the trip (open) Pushbuttons.</b>  <b><u>CUE:</u> After simulating opening closed breakers state the following: the breaker is OPEN.</b>		
	3.0	<b>CONFIRM</b> with the Hot Shutdown Panel Operator (PO) that 11 or 12 Charging Pump is operating.	<b><u>CUE:</u> 11 charging pump is operating.</b>		
*	4.0	<b>PROCEED</b> to 1AX1AX7X, #13 Charging Pump breaker AND <b>OPEN</b> the breaker.	<b>Locates 1AX1AX7X, #13 Charging Pump breaker AND simulates depressing the trip PB to open the breaker.</b>  <b><u>CUE:</u> After simulating opening breaker state the following: the breaker is OPEN.</b>		

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**SYSTEM:** Instrumentation (SF 7) – Reactor Protection System  
**TASK:** Locally Open Reactor Trip Breakers IAW AB.CR-0001.

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	5.0	<b>PROCEED</b> to 1C West Valve & Misc 230V Control Center-EI 84', AND <b>OPEN</b> Breaker 1CY2AX4I, 1CV175-Rapid Borate Stop Valve.	<b>Locates 1C West Valve &amp; Misc 230V Control Center-EI 84', and simulates opening Breaker 1CY2AX4I, 1CV175-Rapid Borate Stop Valve.</b>  <b><i>CUE:</i></b> After simulating opening breaker state the following: the breaker is <b>OPEN</b> .		
	6.0	<b>NOTIFY</b> the CRS of the following: 6.1 The Reactor Trip and Bypass breakers are OPEN 6.2 #13 Charging Pump Breaker is OPEN.	Contact CRS and reports the Reactor Trip and Bypass breakers are open and #13 Charging Pump Breaker is open.  <b>JPM Complete</b>		
	CUE:	<u>WHEN</u> operator informs you the task is complete, OR the JPM has been terminated for other reasons, <u>THEN</u> <b>RECORD</b> the STOP TIME.  <b>STOP TIME:</b> _____	<b>Terminate JPM when operator completes Step 6.</b>		

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**JPM#: 20-01 NRC ILOT IP-j**

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 11 below.

- \_\_\_R\_\_\_ 1. Task description and number, JPM description and number are identified.
- \_\_\_R\_\_\_ 2. Knowledge and Abilities (K/A) references are included.
- \_\_\_\_\_ 3. Performance location specified. (in-plant, control room, or simulator)
- \_\_\_R\_\_\_ 4. Initial setup conditions are identified.
- \_\_\_R\_\_\_ 5. Initiating and terminating Cues are properly identified.
- \_\_\_R\_\_\_ 6. Task standards identified and verified by SME review.
- \_\_\_R\_\_\_ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- \_\_\_R\_\_\_ 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_19\_\_\_ Date \_\_\_\_\_3/18/21\_\_\_\_\_
- \_\_\_R\_\_\_ 9. Pilot test the JPM:  
a. verify Cues both verbal and visual are free of conflict, and  
b. ensure performance time is accurate.
- \_\_\_NA\_\_\_ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- \_\_\_NA\_\_\_ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor: \_\_\_\_\_ R. Chan \_\_\_\_\_

Date: \_1-11-22\_\_\_\_\_

SME/Instructor: \_\_\_\_\_

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

SME/Instructor: \_\_\_\_\_

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

**INITIAL CONDITIONS:**

- The Unit 1 Control Room has been evacuated in accordance with S1.OP-AB.CR-0001, Control Room Evacuation.
- A reactor trip was **NOT** initiated prior to evacuating the Control Room.

**INITIATING CUE:**

You are directed to perform **Unit 1** S1.OP-AB.CR-0001, Control Room Evacuation, Attachment 5.

**ATTACHMENT 5  
(Page 1 of 4)**

**REACTOR OPERATOR**

- \_\_\_ 1.0 **OBTAIN** the following:
- ◆ One copy of this procedure.
  - ◆ One radio (located in Appendix "R" Cabinet)
  - ◆ Key ring set and tools (JA Master, Breaker Keyswitch, screwdriver and adjustable wrench).
  - ◆ A Security Master Key from the Unit 1 CRS (located on the Unit 1 Security Key Ring) [C0363]
- \_\_\_ 2.0 **PROCEED** to Rod Drive MG Set Control Panel (460V Vital Bus Room-EI 84'), **AND OPEN** the following breakers:
- \_\_\_ 2.1 Reactor Trip Breaker A
  - \_\_\_ 2.2 Reactor Trip Breaker B
  - \_\_\_ 2.3 Reactor Trip Bypass Breaker A
  - \_\_\_ 2.4 Reactor Trip Bypass Breaker B.
- \_\_\_ 3.0 **CONFIRM** with the Hot Shutdown Panel Operator (PO) that 11 or 12 Charging Pump is operating.
- \_\_\_ 4.0 **PROCEED** to 1AX1AX7X, #13 Charging Pump breaker **AND OPEN** the breaker.
- \_\_\_ 5.0 **PROCEED** to 1C West Valve & Misc 230V Control Center-EI 84', **AND OPEN** Breaker 1CY2AX4I, 1CV175-Rapid Borate Stop Valve.
- \_\_\_ 6.0 **NOTIFY** the CRS of the following:
- \_\_\_ 6.1 The Reactor Trip and Bypass breakers are OPEN
  - \_\_\_ 6.2 #13 Charging Pump Breaker is OPEN.
- \_\_\_ 7.0 **CONFIRM** with NEO #1 that 1CV71, Chr Hdr PCV, is isolated (1CV70) and bypassed (1CV73) and that flow is being maintained to RCP seals at flowrate of 6 to 10 gpm to each seal.