

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE**

STATION:	SALEM		
SYSTEM:	Pressurizer Pressure Control System (SF 3)		
TASK:	Transfer the 22 Backup Group Pressurizer heaters to the Emergency Power source		
TASK NUMBER:	1130040501		
JPM NUMBER:	20-01 NRC IP-i		
ALTERNATE PATH:	<input type="checkbox"/>	K/A NUMBER:	010 A4.02
APPLICABILITY:		IMPORTANCE FACTOR:	3.6 3.4
EO <input type="checkbox"/>	RO <input checked="" type="checkbox"/>	STA <input type="checkbox"/>	SRO <input checked="" type="checkbox"/>
EVALUATION SETTING/METHOD:	In-Plant / Simulate		
REFERENCES:	S2.OP-AB.LOOP-0001, Rev. 32 (checked 1-3-22) S2.OP-SO.PZR-0010, Rev 10		
TOOLS AND EQUIPMENT:	None		
VALIDATED JPM COMPLETION TIME:	<u>20 min</u>		
TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS:	<u>N/A</u>		
Developed By:	R. Chan Instructor	Date:	1-3-22
Validated By:	Grael / Harris SME or Instructor	Date:	1-11-22
Approved By:	M. Wadusky (signature on file) Training Department	Date:	2-10-22
Approved By:	W. Hargrave Operations Department	Date:	1-3-22
ACTUAL JPM COMPLETION TIME:			
ACTUAL TIME CRITICAL COMPLETION TIME:			
PERFORMED BY:			
GRADE:	<input type="checkbox"/> SAT	<input type="checkbox"/> UNSAT	
REASON, IF UNSATISFACTORY:			
EVALUATOR'S SIGNATURE:			DATE:

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REVISION HISTORY

JPM NUMBER: 20-01 NRC IP-i

Rev #	Date	Description	Validation Required
00	4-3-18	Added revision history and simulator setup pages. Editorial comments from IP 71111.11 FASA.	Yes
01	6-10-20	Reviewed new revision to AB.LOOP-1 and no impact to JPM.	No
--	1-3-22	Used on 20-01 NRC exam. K/A 010 A4.02 3.6/3.4 - Ability to manually operate and/or monitor in the control room: PZR heaters	Yes

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SIMULATOR SETUP INSTRUCTIONS

SYSTEM: Pressurizer Pressure Control System (SF 3)

TASK: Transfer the 22 Backup Group Pressurizer heaters to the Emergency Power source

TASK NUMBER: 1130040501

SIMULATOR IC: N/A

MALFUNCTIONS / REMOTES: N/A

OVERRIDES: N/A

SPECIAL INSTRUCTIONS:

- This JPM is NOT located inside the RCA.
- Task will be performed in the Electrical Penetration Area 78 Ft. elevation.

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TASK: Transfer the 22 Backup Group Pressurizer heaters to the Emergency Power source

TASK NUMBER: 1130040501

INITIAL CONDITIONS:

- A Loss of Offsite Power has occurred on Units 1 and 2.
- The Unit 2 CRS has initiated S2.OP-AB.LOOP-0001, Loss of Offsite Power.

INITIATING CUE:

- You have been directed to **TRANSFER** the 22 Backup Group Pressurizer Heaters to the Emergency Power Supply IAW Section 5.3 of S2.OP-SO.PZR-0010, Pressurizer Backup Heaters Power Supply Transfer.

SUCCESSFUL COMPLETION CRITERIA:

1. ALL critical steps completed
2. ALL sequential steps completed in order
3. ALL time-critical steps completed within the allotted time JPM completed within validated time. Completion may exceed the validated time if satisfactory progress is being made (and NRC concurrence is obtained).

Task Standard for Successful Completion:

1. Transfers the 22 Backup Group Pressurizer heaters to the Emergency Power source by placing 11 of 14 disconnects in OFF, placing the 2EP PZR HTR BUS EMERGENCY FEED DISCONNECT SWITCH in ON, and using the interlock key to unlock breaker 2AX1AX14X.

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* #	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)
		Provide operator with a marked up copy of S2.OP-SO.PZR-0010.	Operator obtains procedure.		
	CUE:	Fill in the JPM Start Time when the student acknowledges the Initiating Cue. START TIME: _____			
	3.0	Precaution and Limitations	CUE: IF asked about PZR level, THEN state: PZR level is 45%.		
	4.0	Equipment/Material Required	CUE: IF asked about JAM Key, THEN state: You have been provided a JAM key.		
	5.3.1	ENSURE 2AX1AX14X, 2EP PRESSURIZER HEATER BUS FEED (EMERGENCY) is OPEN (84' Swgr Rm).	Verifies breaker is OPEN. CUE: Breaker is Open		
*	5.3.2	Request NCO to PERFORM the following: ___ A. PLACE 22 Backup Group in MANUAL. ___ B. PRESS 22 BACKUP OFF pushbutton	Directs NCO to place 22 B/U Group in Manual and PRESS 22 B/U OFF pushbutton. CUE: The NCO reports that the 22 B/U Group is in Manual and OFF pushbutton has been depressed.		
	5.3.3	ENSURE 2EX1EP2EPX, 2EP 480V PRESSURIZER HEATER BUS MAIN BREAKER, is OPEN (78' Electrical Penetration).	Verifies breaker is OPEN. CUE: Breaker is Open		

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*,#	5.3.4	REMOVE interlock key from breaker 2EX1EP2EPX	Operator simulates removing interlock key from breaker. CUE: The key is removed.		
	5.3.5	PLACE any eleven of the following disconnects in OFF * (only three disconnects are to remain ON), * AND MARK the remaining disconnects as N/A:			
*, #	5.3.5	___ 2EX1EP1X, 12, 13, 14 PZR HTR B/U GRP 22 ___ 2EX1EP2X, 21, 22, 48 PZR HTR B/U GRP 22 ___ 2EX1EP3X, 23, 24, 50 PZR HTR B/U GRP 22 ___ 2EX1EP4X, 25, 26, 53 PZR HTR B/U GRP 22 ___ 2EX1EP5X, 27, 28, 55 PZR HTR B/U GRP 22 ___ 2EX1EP6X, 29, 30, 58 PZR HTR B/U GRP 22 ___ 2EX1EP7X, 31, 32, 60 PZR HTR B/U GRP 22 ___ 2EX1EP8X, 33, 62, 63 PZR HTR B/U GRP 22 ___ 2EX1EP9X, 35, 36, 65 PZR HTR B/U GRP 22 ___ 2EX1EP10X, 37, 38, 67 PZR HTR B/U GRP 22 ___ 2EX1EP11X, 39, 40, 70 PZR HTR B/U GRP 22 ___ 2EX1EP12X, 41, 42, 72 PZR HTR B/U GRP 22 ___ 2EX1EP13X, 43, 44, 75 PZR HTR B/U GRP 22 ___ 2EX1EP14X, 45, 46, 77 PZR HTR B/U GRP 22	Operator selects three (3) disconnects to remain ON and the PLACES eleven (11) disconnects to OFF position. CUE: The 11 disconnects selected are in the OFF position.		
*, #	5.3.6	PLACE 2AX1AX14X-1, 2EP PZR HTR BUS EMERGENCY FEED DISCONNECT SWITCH in the ON position (Elev. 78' Electrical Penetration).	Simulates using JAM Key to unlock disconnect AND then placing the disconnect switch to the ON position. CUE: The JAM Key is inserted and disconnect switch is unlock and is in the ON position.		

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*,#	5.3.7	INSERT interlock key, AND UNLOCK breaker 2AX1AX14X	Operator simulates inserting key into breaker and then rotating to unlock the breaker. CUE: The breaker is unlocked.		
	5.3.8	NOTIFY NCO that PZR Htr 22 B/U Group has been transferred to the emergency power supply (2A 460V Vital Bus).	CUE: NCO has been notified that 22 B/U Group is transferred to the emergency power supply. JPM is complete.		
	CUE:	<u>WHEN</u> operator informs you the task is complete, OR the JPM has been terminated for other reasons, <u>THEN RECORD</u> the STOP TIME. STOP TIME: _____	Terminate JPM when report NCO is notified.		

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JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

JPM#: 20-01 NRC IP-i

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.
- ___R___ 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. _32 and 10___ Date ___1-3-22_____
- ___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: ___1-3-22_____

SME/Instructor: _____ Date: _____

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INITIAL CONDITIONS:

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INITIATING CUE:

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