

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

STATION: Salem Generating Station

SYSTEM: D.C. Electrical Distribution [063] & EOP Station Blackout [055]

TASK: Perform actions for a Loss of All AC Power (Shed non-essential DC loads)

TASK NUMBER: N1150140501

JPM NUMBER: 16-01 NRC IP-i

ALTERNATE PATH:

K/A NUMBER: EPE 055 EA1.04	
IMPORTANCE FACTOR: 3.5	3.9
RO	SRO

APPLICABILITY:
 EO RO STA SRO

EVALUATION SETTING/METHOD: In Plant- Simulate

REFERENCES: 2-EOP-LOPA-1 Loss of All AC Power, Rev. 31 (checked 12-11-17)

TOOLS AND EQUIPMENT: None

VALIDATED JPM COMPLETION TIME: 15 minutes

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

Developed By: R. Chan *Rudolph Chan* Date: 12-13-17
 Instructor

Validated By: *Wiedman* Date: 12/13/17
Bresna
 SME or Instructor

Approved By: Training Department *McHugh* Date: 12/15/17

Approved By: Operations Representative *MYERS* Date: 12/15/17

ACTUAL JPM COMPLETION TIME:

ACTUAL TIME CRITICAL COMPLETION TIME:

PERFORMED BY:

GRADE: SAT UNSAT

REASON, IF UNSATISFACTORY:

EVALUATOR'S SIGNATURE: _____ **DATE:** _____

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REVISION HISTORY

JPM NUMBER: 16-01 NRC IP-i

Rev #	Date	Description	Validation Required
00	5-31-17	Added revision history and simulator setup pages. Editorial comments from IP 71111.11 FASA.	No
01	12-13-17	Used on 16-01 NRC ILOT exam. (2017 Annual IP-9). Incorporated comments from NRC Prep week. Used this JPM in place of "Unloading and Stopping EDG" JPM based on NRC not satisfied that the previous JPM provided meaningful tasks for the operator to observe.	Yes

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SIMULATOR SETUP INSTRUCTIONS

SYSTEM: Emergency Operating Procedures
TASK: Perform actions for a Loss of All AC Power (Shed non-essential DC loads)
TASK NUMBER: N1150140501
SIMULATOR IC: N/A
MALFUNCTIONS / REMOTES: N/A

OVERRIDES: N/A

SPECIAL INSTRUCTIONS:

1. This JPM is **NOT** located inside the RCA.
2. **ENSURE** two (2) copies of the procedure is available; 1-candidate and 1-evaluator

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DATE: _____

SYSTEM: Emergency Operating Procedures

TASK: Perform actions for a Loss of All AC Power (Shed non-essential DC loads)

TASK NUMBER: N1150140501

INITIAL CONDITIONS:

Salem Unit 2 has experienced a total Loss of All AC Power.
The control room is performing actions in 2-EOP-LOPA-1, Loss of All AC Power.

INITIATING CUE:

You are directed to shed non-essential DC loads using 2-EOP-LOPA-1, Checkoff Sheet 3, 125VDC LOAD SHED LIST pages 1-3 (COS 3-1 thru 3-3).

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:

Locate DC panels and simulate opening only associated DC breakers listed on Checkoff Sheet 3.

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NAME: _____
 DATE: _____

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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 <u>and</u> evaluator with 2- EOP-LOPA-1, Checkoff Sheet 3, 125VDC LOAD SHED LIST pages 1-3.	Note: Checkoff Sheet 3 sections may be performed in any order.		
	CUE:	Fill in the JPM Start Time when the student acknowledges the Initiating Cue. START TIME: _____			

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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)
*	1	Open breakers in 84 Ft Elev Switchgear Room IAW 2-EOP-LOPA-1 COS Sheet 3.	<p>Locates distribution panels in 84' elevation switchgear room, 2A 125VDC bus, 2ADC 125V DC Distribution Panel, 2B 125VDC Bus, 2DDC 125VDC Distribution panel, 2CDC 125 VDC Distribution panel, and simulates opening breakers contained in Check off Sheet 3.</p> <p>Note 1: 2ADC 125 V DC Breaker 2ADC3AX29 is labeled in field as "Source #1 125 VDC to AVR Excitation Cab" following DCP. Procedure has them labeled as "2 Generator Exciter Voltage Regulator". CUE: Provide this clarification to operator if questions on labeling. This is the "2 Generator Exciter Voltage Regulator" breaker.</p> <p>Note 2: 2DDC 125V DC Breaker 2DDC2AX28 "Safety Injection Test Line Valves" is labeled in field as "21SJ162, 2SJ166, 22SJ162, 22SJ166, 2SJ158". Procedure has them labeled as "SAFETY INJECTION TEST VALVES". CUE: Provide this clarification to operator if questions on labeling. These valves are the Safety injection test valves.</p>		

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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)
			Note: Only selected breakers are designated to be opened. Operator should NOT just simulate opening ALL breakers in panel.		
*	1 (cont)	Open breakers in 100 Ft Elev Switchgear Room IAW 2-EOP-LOPA-1 COS Sheet 3.	Locates distribution panels in 100' elevation switchgear room, 2AADC 125 VDC Distribution panel, 2BBDC 125VDC Distribution panel, and 2CCDC 125 VDC Distribution panel, and simulates opening breakers contained in Check off Sheet 3.		
	CUE:	<p><u>WHEN</u> operator informs you the task is complete, OR the JPM has been terminated for other reasons, <u>THEN</u> RECORD the STOP TIME.</p> <p>REPEAT BACK any message from the operator on the status of the JPM, and then state "This JPM is complete".</p> <p>STOP TIME: _____</p>	Terminate JPM when all panels have been located and appropriate breakers simulated opened.		

INITIAL CONDITIONS:

Salem Unit 2 has experienced a total Loss of All AC Power.
The control room is performing actions in 2-EOP-LOPA-1, Loss of All AC Power.

INITIATING CUE:

You are directed to Shed Non-Essential DC loads using 2-EOP-LOPA-1, Checkoff Sheet 3, 125VDC LOAD SHED LIST pages 1-3 (COS 3-1 thru 3-3).