

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

STATION:	SALEM		
SYSTEM:	Emergency Core Cooling System (ECCS)		
TASK:	Isolate the ECCS Accumulators in EOP-LOCA-1		
TASK NUMBER:	N0060100101		
JPM NUMBER:	20-01 NRC Sim-c		
ALTERNATE PATH:	<input checked="" type="checkbox"/>	K/A NUMBER:	006 A3.01
APPLICABILITY:		IMPORTANCE FACTOR:	4.0* 3.9
EO	<input type="checkbox"/>	RO	<input checked="" type="checkbox"/>
STA	<input type="checkbox"/>	SRO	<input checked="" type="checkbox"/>
EVALUATION SETTING/METHOD:	Simulator / Perform		
REFERENCES:	2-EOP-LOCA-1 Rev. 40 (checked 8-3-21)		
TOOLS AND EQUIPMENT:	None		
VALIDATED JPM COMPLETION TIME:	<u>8 Minutes</u>		
TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS:	<u>N/A</u>		
Developed By:	K. Hantho Instructor	Date:	8-3-21
Validated By:	Rydell/Zirkle SME or Instructor	Date:	8-12-21
Approved By:	M. Wadusky (signature on file) Training Department	Date:	2-10-22
Approved By:	W. Hargrave Operations Department	Date:	1-11-22
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 Sim-c

Rev #	Date	Description	Validation Required
00	9-29-17	Added revision history and simulator setup pages. Editorial comments from IP 71111.11 FASA.	Yes
01	12-11-17	Incorporated comments from NRC Prep week. Modified malfunction for 24SJ54 to fail at intermediate position.	Yes
02	8-3-21	Revised to LOCA-1 from TRIP-6. Updated with new EOP revision	Yes

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SIMULATOR SETUP INSTRUCTIONS

SYSTEM: Emergency Core Cooling System (ECCS)

TASK: Isolate the ECCS Accumulators in EOP-LOCA-1

TASK NUMBER: N0060100101

SIMULATOR IC: IC-252

MALFUNCTIONS / REMOTES:

1. Reset the simulator to above IC.

MALF ID #	Description	Delay Time	Initial Value	Ramp Time	Trigger	Severity
01	RC0001A, 21RC LOOP	N/A	N/A	N/A	N/A	TRUE
02	VL0018, 24SJ54 fails to position (0-100%)	N/A	N/A	N/A	N/A	100%

OVERRIDES:

None

SPECIAL INSTRUCTIONS:

1. Marked up copy of 2-EOP-LOCA-1 on center console.

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SYSTEM: Emergency Core Cooling System (ECCS)

TASK: Isolate the ECCS Accumulators in EOP-LOCA-1

TASK NUMBER: N0060100101

INITIAL CONDITIONS:

- The reactor was tripped when a RCS leak occurred.
- The operating crew has progressed through the EOP's and is now in 2-EOP-LOCA-1, LOSS OF REACTOR OR SECONDARY COOLANT

INITIATING CUE:

- You are the Reactor Operator.
- The CRS directs you to isolate the SI Accumulators IAW Step 14 of 2-EOP-LOCA-1, LOSS OF REACTOR OR SECONDARY COOLANT
- Notify the CRS when Step 14 is completed.
- Your evaluator will take care of all alarms not related to your task.

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. Closes 21, 22, and 23 SJ54's.
2. Vents 24 SI Accumulator to atmospheric pressure.

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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)
		2-EOP-LOCA-1 is open and marked up on console.	Reviews conditions and the marked up EOP-LOCA-1 LOSS OF REACTOR OR SECONDARY COOLANT		
	CUE:	Fill in the JPM Start Time when the student acknowledges the Initiating Cue. START TIME: _____			
	14	ARE <u>AT LEAST TWO</u> RCS T-HOTs LESS THAN 405°F	YES. Operator verifies <u>AT LEAST TWO</u> RCS T-HOTs LESS THAN 405°F		
*	14.1	REMOVE LOCKOUT FROM 21-24SJ54 (ACCUMULATOR OUTLET VALVES)	At 2RP4 Panel, operator selects VALVE OPERABLE on 21-24 SJ54 ACCUMULATOR OUTLET VALVES LOCKOUT Switch		
*	14.1 Contd	CLOSE 21 Thru 24 SJ54	Operator depresses CLOSE pushbuttons for 21 thru 24 SJ54s, ACCUMULATOR OUTLET VALVES and verifies each CLOSE bezel illuminates.		

ALTERNATE PATH STARTS HERE:

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	14.2	ARE 21 Thru 24 SJ54 CLOSED	<p>NO. Operator determines 24SJ54, ACCUMULATOR OUTLET VALVE, is OPEN</p> <p>Note: Operator observes valve not repositioning. May re-check LOCKOUT Switch position or attempt to depress the Close PB again.</p>		
* *	14.2 Contd.	<p>VENT ANY UNISOLATED ACCUMULATOR(s):</p> <ul style="list-style-type: none"> SJ93 (N2 SUPPLY VALVE) AND 2NT35 (N2 HDR VALVE) <p>Evaluators note: Operator vents 24 accumulator</p>	<p>Operator depresses OPEN PB for 2NT35 (N2 HDR VALVE) until OPEN bezel illuminates.</p> <p><u>Note:</u> If 2NT35 is throttled opened, this may be acceptable so long as Accumulator pressure is sufficiently lowering in next step.</p> <p>Operator depresses OPEN PB for 24SJ93 N2 SUPPLY VALVE until OPEN bezel illuminates and observes 24 Accumulator pressure lowering.</p> <p>When the operator checks that Accumulator pressure is <u>lowering</u>, THEN, provide the following cue:</p> <p>Cue: 24 Accumulator pressure is now reading ZERO.</p>		

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	CUE:	JPM is Complete RECORD the STOP TIME. STOP TIME: _____	Terminate the JPM when the step 14.2 is complete.		

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

JPM#: 20-01 NRC Sim-c

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

- _____ 1. Task description and number, JPM description and number are identified.
- _____ 2. Knowledge and Abilities (K/A) references are included.
- _____ 3. Performance location specified. (in-plant, control room, or simulator)
- _____ 4. Initial setup conditions are identified.
- _____ 5. Initiating and terminating cues are properly identified.
- _____ 6. Task standards identified and verified by SME review.
- _____ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
- ___KH___ 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. 40 Date 4-1-21
- ___KH___ 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.
- ___KH___ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor: _____ Date: _____

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