

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

STATION: SALEM
SYSTEM: CVCS
TASK: Take compensatory action for two or more control rods failing to insert during a reactor trip (TRIP-2)
TASK NUMBER: 1150030501
JPM NUMBER: India S-a

ALTERNATE PATH: **K/A NUMBER:** 004 A2.14
IMPORTANCE FACTOR:

3.8*	3.9
RO	SRO

APPLICABILITY:
 EO RO STA SRO

EVALUATION SETTING/METHOD: Simulator (Perform)

REFERENCES: 2-EOP-TRIP-2, REV. 26

TOOLS AND EQUIPMENT: None

VALIDATED JPM COMPLETION TIME: 8 Minutes

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

APPROVAL:

BARGAINING UNIT REPRESENTATIVE

OPERATIONS TRAINING MANAGER

OPERATIONS DIRECTOR OR DESIGNEE

CAUTION: No plant equipment shall be operated during the performance of a JPM without the following:

1. Permission from the OS or Unit CRS;
2. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
3. Verification of the "as left" condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: Minutes
ACTUAL TIME CRITICAL COMPLETION: Minutes
JPM PERFORMED BY: _____ **GRADE:** SAT UNSAT
REASON, IF UNSATISFACTORY:
EVALUATOR'S SIGNATURE: _____ **DATE:** _____

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: CVCS**TASK:** Take compensatory action for two or more control rods failing to insert during a reactor trip (TRIP-2)**TASK NUMBER:** 1150030501**INITIAL CONDITIONS:**

- 1) At power IC-185 on Thumb Drive, which was developed by:
- 2) Insert MALF RD0064 to prevent insertion of three control rods, rods 2, 17, 48
- 3) Insert OVERRIDE B128=0 (Rapid Borate Flow = 0.0)
- 4) Trip the Rx and perform EOP's until CONTROL ROD INSERTION block of steps in TRIP-2
- 5) Mark up procedure to Step 5.

INITIATING CUE:

The reactor has tripped from 100% power. The operating crew has performed the steps of TRIP-2 to the point indicated by the procedure. Begin performing TRIP-2 at the indicated step.

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.

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **CVCS**

TASK: **Take compensatory action for two or more control rods failing to insert during a reactor trip (TRIP-2)**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
		Provide candidate with "Tear Off Sheet"	Candidate reviews conditions and the marked up EOP		
		START TIME:			
	1	ARE BOTH REACTOR TRIP BREAKERS OPEN?	Answers "Yes"		
	2	WHEN T-AVG IS <554°F, THEN CLOSE THE FOLLOWING VALVES: <ul style="list-style-type: none"> • 21 thru 24 BF19 • 21 thru 24 BF40 • 21 thru 24 BF22 	Notes T-Avg <554°F Notes BF19s and BF40s closed (Candidate may lower demand for valves but this is not required) Closes 21 thru 24 BF22		
	3	HAVE TWO OR MORE CONTROL RODS FAILED TO INSERT	Notes three control rods not fully inserted		
	4	START AT LEAST ONE BORIC ACID PUMP IN MANUAL-FAST	Selects MANUAL and starts 21 and/or 22 BA Pump in FAST		
	5	OPEN 2CV175 (RAPID BORATE STOP VALVE)	Opens 2CV175		
	6	CLOSE 21 AND 22CV160 (BAT RECIRC VALVES)	Closes 21 and 22CV160		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **CVCS**

TASK: **Take compensatory action for two or more control rods failing to insert during a reactor trip (TRIP-2)**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
	7	CONTROL CHARGING TO MAINTAIN >87 GPM	Verifies or raises charging flow to >87 gpm by adjusting the Master Flow Controller in Manual or 23 Charging pump speed controller in manual.		
	8	IS RAPID BORATION FLOW ESTABLISHED	Checks flow meter and answers NO		
	9	PERFORM THE FOLLOWING ACTIONS: <ul style="list-style-type: none"> • CLOSE 2CV175 • STOP BOTH BA PUMPS • PLACE ONE BA PUMP IN AUTO • THROTTLE 21 AND 22CV160 TO 10% DEMAND 	<ul style="list-style-type: none"> • 2CV175 closed • 21 and 22 BA Pump stopped • 21 or 22 BA Pump in AUTO • 21 and 22CV160 demand set at no less than 10% 		
* #	10	OPEN 2SJ1 AND 2SJ2 (RWST TO CHARGING PUMP VALVES)	Opens 2SJ1 and 2SJ2		
* #	11	CLOSE 2CV40 AND 2CV41 (VCT DISCHARGE STOP VALVES)	Closes 2CV40 and 2CV41		
*	12	CONTROL CHARGING TO MAINTAIN GREATER THAN 87 GPM	Verifies or adjusts charging >87 GPM		

OPERATOR TRAINING PROGRAM
 JOB PERFORMANCE MEASURE

NAME: _____
 DATE: _____

SYSTEM: **CVCS**

TASK: **Take compensatory action for two or more control rods failing to insert during a reactor trip (TRIP-2)**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	13	BORATE 120 MINUTES FOR EACH CONTROL ROD NOT FULLY INSERTED	Determines 360 minutes required boration time. CUE: After determination of correct boration time, state the JPM is complete.		
		TERMINATE JPM			
		STOP TIME:			

Terminating Cue: Repeat back message from the operator on the status of the JPM, and then state "This JPM is complete"

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

1. The reactor has tripped from 100% power. The operating crew has performed the steps of 2-EOPTRIP-2 to the point indicated by the procedure.

INITIATING CUE:

Begin performing 2-EOP-TRIP-2 at step 6.

STATION: Salem Generating Station

SYSTEM: ECCS

TASK: TCAF LBLOCA: transfer to Cold Leg Recirculation IAW LOCA-3

TASK NUMBER: 1150100501

JPM NUMBER: India S-b

ALTERNATE PATH:

K/A NUMBER: 006 A4.05

IMPORTANCE FACTOR:	<u>3.9</u>	<u>3.8</u>
	RO	SRO

APPLICABILITY:

Nuclear Common

Page 6 of 77

Rev. 1

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

EO RO STA SRO

EVALUATION

SETTING/METHOD: Simulator/Perform

REFERENCES: 2-EOP-LOCA-3, Rev. 26

TOOLS, EQUIPMENT AND PROCEDURES: 2-EOP-LOCA-3 Rev. 26

VALIDATED JPM COMPLETION TIME: 9 minutes

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: See initiating Cue

APPROVAL:

BARGAINING UNIT REPRESENTATIVE

OPERATIONS TRAININ MANAGER OR DESIGNEE

OPERATIONS DIRECTOR OR DESIGNEE

CAUTION No plant equipment shall be operated during the performance of a JPM without the following:

4. Permission from the SM or Unit CRS;
5. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
6. Verification of the "as left" condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: _____ Minutes

ACTUAL TIME CRITICAL _____ Minutes

JPM PERFORMED BY: _____ **GRADE:** SAT UNSAT

REASON, IF UNSATISFACTORY:

EVALUATOR'S SIGNATURE: _____

DATE: _____

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

1. IC-190 on Thumb Drive – snapshot of LBLOCA with no malfunctions, immediately following actuation of the RWST LOW level alarm.
2. Should have a marked up version of LOCA-1 available for the operator to review.
3. This is a Time Critical task. The SJ69 closed should be initiated within 3 minutes and complete the shift to CL Recirc in 11.7 minutes when the SJ30, SJ1 and SJ2 are shut.

Initial Conditions:

A LBLOCA has occurred. All ECCS equipment functioned as designed. The vital buses are powered from the switchyard. The transition to LOCA-3 (from LOCA-1) was just made following actuation of the RWST LO Level alarm.

INITIATING CUE:

You are the RO/PO. Execute the steps of LOCA-3. This task is time critical. The clock begins when the simulator is taken out of freeze.

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 (and NRC concurrence is obtained).

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
	2	Is "CONT SUMP CH A(B) LEVEL >62%" LIT?	<i>Evaluator: Log time for evaluation of critical time requirements:</i> _____. Verifies either Ch. A or B Sump Level indication is >62%.		
*	3	Depress "SUMP AUTO ARMED" PB's on 21 and 22SJ44 Bezels	WHITE indicating light energizes and valves stroke OPEN. The RED OPEN indicating light energizes when each valve reaches full stroke.		
*	4	Remove lockouts for the following valves: • 2SJ67 • 2SJ68 • 2SJ69	On RP-4, position the valve lockout switches to: • 2SJ67 - VALVE OPERABLE • 2SJ68 - VALVE OPERABLE • 2SJ69 - VALVE OPERABLE		
	5	Are 21 and 22SJ 44 Open?	Verifies both valves open		
		Start 21 and 22 RHR Pump	Verifies both RHR Pumps are running		
*		Close 2SJ69	Depresses 2SJ69 CLOSE PB and verifies 2SJ69 closed indication <i>Evaluator: Log time for evaluating completion of time critical task: (<3 minutes)</i>		

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
	7	Reset SI	Verifies GREEN SI RESET PB illuminated on safeguards bezel.		
		Reset EMERGENCY LOADING for each SEC	Verifies WHITE EMERGENCY LOADING RESET PB on each DG bezel is illuminated		
		Reset 230V CONTROL CENTERS	Verifies WHITE 230V CONTROL CENTER RESET PB on each DG is illuminated.		
*	8	Are <u>Both</u> CS Pumps running? Stop 22 CS PUMP.	Verifies both CS pumps are running. Depress GREEN STOP PB for 22 CS PUMP and observe that RED START PB light extinguishes.		
*	9	Close 21 and 22RH19 (RHR HX DISCH X-CONN VALVES)	Depress GREEN CLOSE PB on 21 and 22RH19 and observe that RED OPEN PB light extinguishes and GREEN illuminates.		
*		Stop 23 CHARGING PUMP	Depress GREEN STOP PB for 23 Charging pump and observe that RED START light extinguishes.		

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
	10	Select appropriate flowpath transition step from TABLE B	Determines that all 4KV Vital Buses are energized and proceeds to Step 11, per TABLE B.		
	11	Is any 4KV Vital Bus energized by DG?	Determines that 4KV Vital Buses are being fed from the switchyard based on breaker position and/or the Mimic Bus.		
	11.1	Are at least three SW PUMPS running?	Verifies three SW PUMPS are running based on RED START LIGHT illuminated and/or amperage. NOTE: SW header pressure may drop to between 95-100 psig. Student may start a SW pump to raise header pressure.		
		Are 21 and 22 CCW HXs in service?	Determines 21 and 22 CCW HXs in service by observing CCW outlet temperature and verifying SW flow/valve alignment.		
	11.2	Are at least two CCW PUMPS running?	Verifies at least 2 CCW PUMPS running by observing RED START PB illuminated and/or running amps.		

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
		OPEN 21 and 22CC16 (CCW to RHR HX OUTLET VALVES)	Verifies 21 and 22CC16 OPEN by observing RED OPEN PB illuminated. NOTE: Normally AUTO ARMED to open at RWST LO LEVEL SETPT.		
*		CLOSE 2SJ67 and 2SJ68 (SI PUMP MINIFLOW VALVES)	Depresses GREEN CLOSE PB on 2SJ67 and 2SJ68, observes RED OPEN PB light extinguish and GREEN CLOSE light illuminate.		
		CLOSE 2RH1 and 2RH2 (COMMON SUCTION VALVES)	Verifies GREEN CLOSE PB light on 2RH1 and 2RH2 are illuminated.		
*	11.3	Is 22 RHR pump running? OPEN 22SJ45 (RHR DISCHARGE TO CHARGING PUMPS VALVE)	Verifies 22 RHR pump is running. Depresses RED OPEN PB on 22SJ45, observes GREEN CLOSE PB extinguish and RED OPEN PB illuminate.		
*	11.4	Is 21 RHR pump running? OPEN 21SJ45 (RHR DISCHARGE TO SI PUMPS VALVE)	Verifies 21 RHR pump is running. Depresses RED OPEN PB on 21SJ45, observes GREEN CLOSE PB extinguish and RED OPEN PB illuminate.		

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
		OPEN 21 and 22SJ113 (SI-CHG PUMPS X-OVER VALVES)	Verifies RED OPEN PB illuminated on 21 and 22SJ113. NOTE: Normally AUTO ARMED to open at RWST LO LEVEL SETPT.		
	12	START: <ul style="list-style-type: none"> • 21 and 22 SI PUMPS • 21 and 22 CHARGING PUMPS 	Verifies RED START PB illuminated and/or running amps on 21 and 22 SI and CHARGING PUMPS..		
*	14	Remove Lockout for 2SJ30	Removes SJ30 LOCKOUT using switch on RP-4		
*		Isolate the RWST as follows: <ul style="list-style-type: none"> • CLOSE 2SJ30 • CLOSE 2SJ1 • CLOSE 2SJ2 	For 2SJ30: Depress the GREEN CLOSE PB, observe the RED OPEN PB light extinguish and the GREEN CLOSE PB illuminate. For 2SJ1 and 2SJ2: Select MANUAL by depressing the BLUE PB, depress the GREEN CLOSE PB, observe the RED CLOSE PB light extinguish and the GREEN CLOSE PB illuminate. Evaluator: Log time for evaluating completion of time critical task _____ (<11.7 minutes)		

OPERATOR TRAINING PROGRAM

NAME: _____

JOB PERFORMANCE MEASURE

DATE: _____

SYSTEM: **ECCS**

TASK: **TCAF a LBLOCA: transfer to CL Recirculation IAW LOCA-3**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
	15.0	Place controllers for recirculation valves 21 and 22RH29 in MANUAL and CLOSE the valves.	<p>On each valve, select MANUAL by depressing the BLUE PB, depress the GREEN CLOSE PB, observe the RED OPEN PB light extinguish and the GREEN CLOSE PB illuminate.</p> <p>CUE: After Both RH29 valves have been placed in manual, state JPM is complete.</p>		

TERMINATING CUE: 21 and 22RH29 close

JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

1. A LBLOCA has occurred. All ECCS equipment functioned as designed. The vital buses are powered from the switchyard. The transition to LOCA-3 (from LOCA-1) was just made following actuation of the RWST LO Level alarm.

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIATING CUE:

You are the RO/PO. Execute the steps of LOCA-3. This task is time critical. The clock starts with the reading of the first step.

STATION: SALEM 1 & 2
SYSTEM: Reactor Coolant System
TASK: Take Corrective Action For Pressurizer Pressure Malfunctions
TASK NUMBER: N1140240401
JPM NUMBER: India Sim c.

ALTERNATE PATH: **K/A NUMBER:** 010 A2.03 / A4.03
IMPORTANCE FACTOR:

4.1 / 4.0	4.2 / 3.8
RO	SRO

APPLICABILITY:
 EO RO STA SRO

EVALUATION SETTING/METHOD: SIMULATOR / PERFORM

REFERENCES: S2.OP-AB.PZR-0001, Rev. 15

TOOLS AND EQUIPMENT: None

VALIDATED JPM COMPLETION TIME: 6 MINUTES

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

APPROVAL:

Bargaining Unit Representative	OTM or designee	OPS Manager, or Designee
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CAUTION: No plant equipment shall be operated during the performance of a JPM without the following:

7. Permission from the SM or Unit CRS;
8. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
9. Verification of the "as left" condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: Minutes
ACTUAL TIME CRITICAL COMPLETION: N/A

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

JPM PERFORMED BY: _____

GRADE: SAT UNSAT

REASON, IF UNSATISFACTORY:

EVALUATOR'S SIGNATURE: _____

DATE: _____

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: Reactor Coolant System

TASK: Take Corrective Action For Pressurizer Pressure Malfunctions

TASK NUMBER: N1140240401

INITIAL CONDITIONS:

IC-182

100% power.

Malf PR0018A PR1 leak, Tied to Event 1 Final Value 60,000

VL0122 PR6 fails to position, tied to Event 1, final value 90

VL0297 PR1 fails to position, RT-1, Final Value 10%.

AN0663 SER 663 Fail OFF Override OHA E-26 (To prevent alerting operator that 2PR1 is not full closed)

Event 1 KB201LCI This event is when the operator depresses the CLOSE PB for 2PR6 at step 3.42.A It inserts the PR6 fail to 90% open, and also inserts PR1 fails to the 10% open position.

INITIATING CUE:

You are the Reactor Operator. Respond to all indications and alarms.

Successful Completion Criteria:

- 5. All critical steps completed.**
- 6. All sequential steps completed in order.**
- 7. All time-critical steps completed within allotted time.**
- 8. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.**

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Reactor Coolant System**

TASK: **Take Corrective Action For Pressurizer Pressure Malfunctions**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
			Operator states he has the watch.		
	1	Enter RT-1, VLV0297 PR1 fails to position, Final Value 10%.			
*	2		Operator recognizes PZR pressure dropping slowly by visual observation or by energization of the Back Up group 22 PZR heater. Operator may diagnose the partially open PORV initially, or during AB performance. Operator may attempt to place PORV in MANUAL and CLOSE the PORV to mitigate the pressure reduction.		
	3		Operator enters S2.OP-AB.PZR-0001, PRESSURIZER PRESSURE MALFUNCTION.		
	3.1		Operator initiates CAS.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Reactor Coolant System**

TASK: **Take Corrective Action For Pressurizer Pressure Malfunctions**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	3.2	Is POPS in service?	Operator answers NO.		
*	3.3	Is controlling PZR pressure channel failed?	Operator answers NO, GOES TO STEP 3.11		
*	3.11	Is the MPC failed?	Operator answers NO, GOES TO Step 3.17		
*	3.17	Is a Spray Valve failed?	Operator answers NO, GOES TO Step 3.39		
*	3.39	Is a PORV failed?	Operator answers YES, 2PR1 is partially open		
*	3.40	Place the PORV in Manual	Operator depresses Manual PB for 2PR1.		
	3.41	Operate the PORV to control PZR IAW Att. 2	Operator discovers 2PR1 will not close.		
*	3.42	IF a PORV has failed to close: A. CLOSE the associated stop valve. B. Dispatch an operator to open the associated control power breaker.	Operator depresses close PB for 2PR6. SIMULATOR OPERATOR: ENSURE ET-1 becomes TRUE PORV leakage rises, causing a corresponding rise in rate of pressure drop. CUE: If requested, state that an operator has been dispatched to open breaker.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Reactor Coolant System**

TASK: **Take Corrective Action For Pressurizer Pressure Malfunctions**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	CAS 1.0	IF AT ANY TIME, RCS pressure drops to 2000 psig and continues to drop, THEN: A. TRIP the Reactor, B. GO TO TRIP-1	Operator TRIPS the reactor before an automatic runback or trip on OT/DT occurs.		
		Evaluator terminate the JPM after the operator has tripped the Rx and started performing IMMEDIATE ACTIONS of TRIP-1			

Terminating Cue:

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

100% power, steady state.

INITIATING CUE:

You are the Reactor Operator. Respond to all indications and alarms

STATION: SALEM 1 & 2
SYSTEM: Reactor Coolant System
TASK: Identify the RCS leakrate
TASK NUMBER: N1140260401
JPM NUMBER: India Sim d.

ALTERNATE PATH:

K/A NUMBER: 002 A2.01
IMPORTANCE FACTOR:

RO	4.4	SRO
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APPLICABILITY:

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: Reactor Coolant System

TASK: Identify the RCS leakrate

TASK NUMBER: N1140260401

INITIAL CONDITIONS:

IC-181 Thumb Drive

100% power.

Malf RC RC00002D, Final Value 40, RT-1

INITIATING CUE:

You are the Reactor Operator. Respond to all indications and alarms.

Successful Completion Criteria:

- 9. All critical steps completed.**
- 10. All sequential steps completed in order.**
- 11. All time-critical steps completed within allotted time.**
- 12. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.**

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: Reactor Coolant System
TASK: Identify the RCS leakrate

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
			Operator states he has the watch.		
	1	Enter RT-1 MALF RC0002 (40 gpm RCS leak)			
* *	2		Operator notices some or all of the following indications: <ul style="list-style-type: none"> • Charging flow rising • PZR level dropping • R11A rising • Containment Sump Pump Run Operator enters S2.OP-AB.RC-0001, REACTOR COOLANT SYSTEM LEAK.		
	3.1	Initiate ATT. 1 Continuous Action Summary	Operator reviews CAS. Que: "CRS will implement the CAS"		
	3.2	Is RCS temp < 350 degrees?	Operator answers no, at NOT. GOES TO Step 3.8.		
	3.8	Is the Unit in Mode 3.....	Operator answers no, in MODE 1. GOES TO Step 3.12.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Reactor Coolant System**
TASK: **Identify the RCS leakrate**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	3.12	Is PZR level being maintained stable or rising?	Operator answers no due to charging flow rising and PZR level dropping.		
	3.13	Is a centrifugal charging pump running?	Operator answers NO, 23 positive displacement charging pump is running.		
*	3.14	Transfer to a centrifugal pump as follows.....	<ul style="list-style-type: none"> • Ensures Master Flow Controller in AUTO • Closes 2CV55 • Start 21 or 22 charging pump • Place 23 Charging pump speed control in Manual. • Lowers 23 speed while adjusting CV55 to maintain charging flow. • Stops 23 charging pump when its at minimum flow. • Adjusts 2CV55 to attempt to stabilize PZR level. • Keeps 2CV55 in Manual while attempting to quantify leak. • Ensures no RCP seal flow lo/hi alarms are lit by adjusting 2CV71 as necessary. 		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Reactor Coolant System**
TASK: **Identify the RCS leakrate**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
* * *	3.15	Evaluate leak rate by attempting to stabilize PZR level as follows: 1. Adjust charging flow as necessary..... 2. Reduce letdown flow to minimum as follows: A. Place 2CV18 in MANUAL and control letdown pressure~300 psig while performing the following: 1. Open 2CV3, 45 gpm orifice 2. Close 2CV4 and 5 3. Return 2CV18 to Auto 3. When PZR level is stable, Evaluate leak rate.	<p>Que as CRS: Determine an estimated leakrate</p> <p>Operator places 2CV18 in Manual. As the operator opens the 2CV3, letdown pressure will rise, and the 2CV18 will require adjustment in the CLOSED (Decrease Pressure) direction. When the 2CV3 is fully open, the operator closes the open 75 gpm orifice. Again, as the valve closes, adjustment in the OPEN (Increase pressure) direction will be required. When the operator has adjusted letdown pressure to ~300 psig, places the 2CV18 in Auto.</p> <p>Operator adjusts 2CV55 position to stabilize PZR level. Operator determines leakrate.</p> <p>Acceptable leakrate 30-50 gpm.</p>		
			Terminate JPM when operator has stated the leak rate.		

Terminating Cue: None

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE:**

INITIAL CONDITIONS:

100% power, steady state.

INITIATING CUE:

You are the Reactor Operator. Respond to all indications and alarms.

STATION: Salem Generating Station

SYSTEM: Containment Spray

TASK: Perform Actions for a Loss of Emergency Recirculation

TASK NUMBER: 115 012 05 01

JPM NUMBER: India SIM e.

ALTERNATE PATH:

K/A NUMBER: E11 EA1.1 / 026 A4.01

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE:**

NAME: _____

DATE: _____

SYSTEM: Containment Spray

TASK: Perform Actions for a Loss of Emergency Recirculation

TASK NUMBER: 115 012 05 01

INITIAL

IC-187 Thumb Drive

RWST level~30'
Cont pressure 15-47psig
4 CFCU running in SLOW speed.
BOTH RHR pumps not running.

A LBLOCA has occurred in coincidence with a loss of power to 2A 4KV Vital Bus.
2-EOP-LOCA-5 is in effect because both RHR Pumps are unavailable.

INITIATING CUE:

You are the board operator. Beginning @ Step 13, implement LOCA-5.

Successful Completion Criteria:

- 13. All critical steps completed.**
- 14. All sequential steps completed in order.**
- 15. All time-critical steps completed within allotted time.**
- 16. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.**

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE:**



OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Containment Spray**

TASK: **Perform Actions for a Loss of Emergency Recirculation**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
		START TIME:	CUE: Inform operator that other operators are performing cooldown and makeup to RWST		
*	1 LOCA-5 Step 13	Determine the required number of CS Pumps from Table C	Determines that, based on RWST level and 4 CFCU's running, no CS Pumps are required.		
	2 LOCA-5 Step 13	If any pump is to be stopped:	Determines 22 CS Pp can be stopped.		
*	3 LOCA-5 Step 13	Reset Spray Actuation	Resets both trains of Spray Actuation		
*	4 LOCA-5 Step 13	Stop Pump	Stops 22 CS Pp		
*	5 LOCA-5 Step 13	Close associated 21 or 22CS2 (Pump Discharge Valve)	Closes 22CS2		
	6 LOCA-5 Step 14	Is BIT flow established	Operator determines BIT flow is established.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: **Containment Spray**TASK: **Perform Actions for a Loss of Emergency Recirculation**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
*	7	Stop <u>ALL</u> but 21 or 22 charging pump.	Operator stops charging pumps such that only 1 charging pump remains running.		
*	8	Run <u>only</u> one SI pump.	Operator stops 21 OR 22 SI pump.		
	9 LOCA-5 Step 14.2	Is flow <u>at least</u> 300 gpm on 21 <u>OR</u> 22 SJ49.	Operator determines there is no flow through either SJ49 because BOTH RHR pumps are stopped.		
	10 LOCA-5 Step 15	Is 21SJ44 open? Is 22SJ44 open?	Operator determines 21SJ44 and 22SJ44 are NOT open.		
	11 LOCA-5 Step 16	IF <u>ALL</u> seal cooling.....	Continuous Action step read.		
	12 LOCA-5 Step 17	NOTE 23 RCP provides normal PZR spray capability	NOTE read.		
	13 LOCA-5 Step 18	Is RCS subcooling > 0? <u>Stop</u> all RCPs.	Operator determines subcooling is NOT greater than zero. Operator determines all RCPs are stopped.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Containment Spray**

TASK: **Perform Actions for a Loss of Emergency Recirculation**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
	14 LOCA-5 Step 19	Is <u>ANY</u> RCP running? Is RVLIS Full Range less than 57%?	Operator determines all RCPs are stopped. Operator determines RVLIS Full Range level is less than 57%, and goes to Step 22.		
*	14 LOCA-5 Step 22	Is <u>ANY</u> RCP running? Is RVLIS Full Range greater than 57%? Raise RCS makeup flow to maintain RVLIS Full Range level >57%.	Operator determines all RCPs are stopped. Operator determines RVLIS Full Range level is NOT greater than 57%. Operator starts Charging or SI pumps and monitors RVLIS Full Range level. CUE: After any charging or SI pump is started and RVLIS Full Range level checked, JPM may be terminated.		
		STOP TIME: _____			

Terminating Cue: None

**JOB PERFORMANCE MEASURE
SIMULATOR SETUP INSTRUCTIONS**

1. IC-187 Thumb Drive
2. 100% power Initial Condition
3. Enter Malfunctions:
 - a. RC0001A
 - b. EL0144
4. Carry out the steps of the EOP Network until RWST level is 30'
5. Ensure RWST level >15.2', Containment Pressure between 15-47 psig, 4 CFCU running in Slow Speed
6. Enter Malfunction RH0026B

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

A LBLOCA has occurred in coincidence with a loss of power to 2A 4KV Vital Bus. 2-EOP-LOCA-5 is in effect because both RHR Pumps are unavailable.

INITIATING CUE:

You are the board operator. Beginning @ Step 13, implement LOCA-5.

STATION: SALEM 1 & 2
SYSTEM: Nuclear Instrumentation System
TASK: Review a calorimetric calculation (Adjust PR NIS Gain)
TASK NUMBER: 015 003 02 01
JPM NUMBER: India Sim f.

ALTERNATE PATH:

K/A NUMBER:	015 000 A1.01	
IMPORTANCE FACTOR:	3.5	3.8
	RO	SRO

APPLICABILITY:

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

EO RO STA SRO

EVALUATION SETTING/METHOD: SIMULATOR / PERFORM

REFERENCES: SC.RE-ST.ZZ-0001, Rev.22
S2.RE-RA.ZZ-0011, Rev. 221 S2.RE-RA.ZZ-0012, Rev. 105

TOOLS AND EQUIPMENT: None

VALIDATED JPM COMPLETION TIME: 30

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

APPROVAL:

<u>N/A</u>		
Bargaining Unit Representative	OTM or designee	OPS Manager, or Designee

CAUTION: No plant equipment shall be operated during the performance of a JPM without the following:
 16. Permission from the SM or Unit CRS;
 17. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
 18. Verification of the "as left" condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: _____ Minutes

ACTUAL TIME CRITICAL COMPLETION: _____ N/A

JPM PERFORMED BY: _____ GRADE: SAT UNSAT

REASON, IF UNSATISFACTORY:

EVALUATOR'S SIGNATURE: _____ DATE: _____

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: Nuclear Instrumentation System

TASK: Review a calorimetric calculation (Adjust PR NIS Gain)

TASK NUMBER: 015 003 02 01

INITIAL CONDITIONS:

Any 100% power IC.

INITIATING CUE:

A daily calorimetric has been performed IAW SC.RE-ST.ZZ-0001. Results indicate that PR NIS Channels I and III need to be adjusted.

You are to review the calorimetric for correctness, and perform adjustment of the selected channel.

Successful Completion Criteria:

- 17. All critical steps completed.**
- 18. All sequential steps completed in order.**
- 19. All time-critical steps completed within allotted time.**
- 20. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.**

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Nuclear Instrumentation System**
TASK: **Review a calorimetric calculation (Adjust PR NIS Gain)**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
	1	Provide Operator with a marked up copy of SC.RE-ST.ZZ-0001, Daily Power Range Channel Calibration by Calorimetric.			
		Go to next page of this JPM for next step.			

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: Nuclear Instrumentation System
TASK: Review a calorimetric calculation (Adjust PR NIS Gain)

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*	2		<p>Operator reviews procedure. The following discrepancies should be identified on Attachment 7:</p> <ol style="list-style-type: none"> 1. 1.2 Average Full Power D/T should be 64.8, not 64.3, as shown on Table 1 of S2.RE-RA.ZZ-0011, TABLES. The incorrect number is from the OP/DT OT/DT Table below the correct PRIMARY COOLANT LOOPS Table. 2. 1.3 Delta T Power should be 99.7, not 100.5. The incorrect answer is derived from the incorrect value in 1.2. 3. 1.4 Correction Factor should be 0.0, not 0.1. 4. 1.5 Corrected Delta T Power should be 99.7, not 100.4. The incorrect answer is derived from the incorrect values in 1.2 and 1.4. 5. 2.2 Difference should be – 0.2, not +0.5. The incorrect answer is derived from the incorrect value in 1.5. 		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Nuclear Instrumentation System**
TASK: **Review a calorimetric calculation (Adjust PR NIS Gain)**

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
			CUE: IF operator states that the errors need to be fixed by the person who completed/verified the calorimetric, inform them that they should make corrections and continue with procedure to adjust the NI channels.channels		
*	2. (5.2.6.A)	ENSURE the Rod Control Selector Switch is in Manual BEFORE adjusting NIS potentiometers.	Operator places Rod Control in MANUAL.		
	3 5.2.6.B	ENSURE that all High Rate Flux Trips are clear BEFORE adjustment.	Operator checks High Flux Rate Trip lights deenergized on all 4 channels at PR NI racks. Operator may also point out that no F Window OHAs are present.		
*	5.2.6.C	For N41, UNLOCK the Gain Potentiometer on the "Power Range B" NIS drawer.	Operator locates correct channel and drawer, and unlocks potentiometer.		
*	5.2.6.D	ADJUST the Gain Potentiometer so the NIS Indicated RTP matches the new value recorded in Attachment 6, Part II.	Operator adjusts the potentiometer to required new reading. CUE: Current reads 100.0		
*	5.2.6.E	LOCK the Gain Potentiometer.	Operator locks the potentiometer.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: Nuclear Instrumentation System
TASK: Review a calorimetric calculation (Adjust PR NIS Gain)

# *	STEP NO.	STEP (* Denotes a Critical Step) (# Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
	5.2.6.F	IF a High Flux Rate Trip occurs, THEN RESET, as necessary.	High Flux Rate trip will not occur.		
	5.2.6.G	IF the other Power Range NIS channels need to be adjusted, THEN REPEAT Steps 5.2.6.B through 5.2.6.F.	Operator determines N43 channel requires adjustment. CUE: If operator performed adjustment of first channel correctly, evaluator may cue operator that adjustment of second channel is complete.		
	5.2.6.H	COMPLETE Attachment 6, PART III.	Operator fills out Att. 6 Part III.		
	5.2.6.I	RETURN the Rod Control Selector Switch to the position required for the current operating conditions.	Operator places Rod Control in AUTO.		

Terminating Cue: When ROD CONTROL is placed in automatic, terminate JPM.

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE:****INITIAL CONDITIONS:**

100% power, steady state.

INITIATING CUE:

A daily calorimetric has been performed IAW SC.RE-ST.ZZ-0001. Results indicate that PR NIS Channel III needs to be adjusted.

You are to review the calorimetric for correctness, and perform adjustment of the selected channel.

STATION: Salem Generating Station

SYSTEM: Auxiliary Feedwater

TASK: Initiate AFW flow/AF21 Pressure Override

TASK NUMBER: 0610020101/1150020501

JPM NUMBER: India NRC Sim g

ALTERNATE PATH:

K/A NUMBER: _____ 061 A2.05

**OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE:**

NAME: _____

DATE: _____

SYSTEM: Auxiliary Feedwater**TASK:** Initiate AFW flow/AF21 Pressure Override**TASK NUMBER:** 0610020101/1150020501**INITIAL**

Insert MALF AF0182A 21 AFP PRESS OVRD PROT FAILS
 MALF AF0182B 22 AFP PRESS OVRD PROT FAILS
 MALF AF0183 23 AUX FW PMP OVERSPEED TRIP.

Trip both SGFPs.

Trip the Rx Perform TRIP-1 and snap after transition to TRIP-2.

INITIATING CUE:

A manual reactor trip was initiated due to the simultaneous loss of both SGFP's. The crew has just transitioned to 2-EOP-TRIP-2.

You are the control board operator. Starting at Step 1, TRIP-2, execute the steps of the procedure.

Successful Completion Criteria:

- 21. All critical steps completed.**
- 22. All sequential steps completed in order.**
- 23. All time-critical steps completed within allotted time.**
- 24. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.**

OPERATOR TRAINING PROGRAM
 JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **Initiate AFW flow/AF21 Pressure Override**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
	1	Announce twice on Station PA "Unit 2 Reactor Trip"	Makes announcement		
	2	Implement the Event Classification Guide	Informs SM (Evaluator)		
	3	Is total AFW >22E4lbm/hr?	No		
	4	Start 21-23 AFW Pumps	Determines that 21 and 22 AFW Pps are running and 23 AFW Pp is tripped		
	5	Open 21-24AF11 and 21-24AF21	Verifies AF11s open Verifies valves have an open demand signal or presses open on 21-24AF21 and notes that they did not open. Should note that AFW Pp discharge pressure is above the opening setpoint.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **Initiate AFW flow/AF21 Pressure Override**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
*	6	Depress pressure override defeat	<p>Pressure Override Defeat depressed</p> <p>NOTE: This is not a specific procedural step in TRIP-2 but is a step in other procedures. Operators are expected to take compensatory action for failures. It is acceptable to reference another procedure.</p> <p>CUE: If operator announces intention to transition to FRHS-1 Loss of Heat Sink, inform them that the STA is currently verifying the CFSTs and to continue with performance of TRIP-2.</p>		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____

DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **Initiate AFW flow/AF21 Pressure Override**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L S/U	COMMENTS (Required for UNSAT evaluation)
*	7	Is AFW Flow >22E4lbm/hr?	<p>When Pressure Override Defeat PBs are depressed for each AFW pump, the 2 respective AF21 valves associated with each pump will open. The operator should verify AFW flow indicated on 2CC2 > 22E4lbm/hr.</p> <p>NOTE: If operator does not operate the pressure override PBs, they will answer NO to this question. If this occurs, allow operator close 21-24 BF19s and 40s, then announce JPM is complete.</p>		
		STOP TIME: _____			

Terminating Cue: When operator determines AFW flow is > 22E4lbm/hr, terminate JPM.

**JOB PERFORMANCE MEASURE
SIMULATOR SETUP INSTRUCTIONS**

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

A manual reactor trip was initiated due to the simultaneous loss of both SGFP's. The crew has just transitioned to 2-EOP-TRIP-2.

INITIATING CUE:

You are the control board operator. Starting at Step 1, TRIP-2, execute the steps of the procedure.

STATION: SALEM

SYSTEM: Auxiliary Feedwater

TASK: TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.

**TASK
NUMBER:** 1140130401

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

JPM NUMBER: India IP-1

K/A NUMBER: APE 068 AA1.03
IMPORTANCE FACTOR: 4.1 4.3
RO SRO

APPLICABILITY: E RO SR

EVALUATION SETTING/METHOD: In-Plant Simulate

REFERENCES : S2.OP-AB.CR-0001, Rev.
19 Control Room
Evacuation

TOOLS AND EQUIPMENT: JAM Key

VALIDATED JPM COMPLETION TIME: 15 mins.

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

APPROVE D: 2.0

Bargaining Unit Representative

3.0 OTM

Operations Director or designee

CAUTION: No plant equipment shall be operated during the performance of a JPM without the following:
1. Permission for the SNSS Or Unit NSS;
2. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
3. Verification of the "as left" condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: _____

ACTUAL TIME CRITICAL COMPLETION TIME: _____

JPM PERFORMED _____ GRAD SAT UNSAT

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

**REASON, IF
UNSATISFACTORY:**

**EVALUATOR'S
SIGNATURE:** _____

DATE

: _____

NAME: _____

DATE: _____

SYSTEM: Auxiliary Feedwater

TASK: TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.

**TASK
NUMBER:** 1140130401

**INITIAL
CONDITIONS:**

1. The control room has been evacuated IAW S2.OP-AB.CR-0001.

INITIATING CUE:

The CRS has assigned you to locally start 21 and 22 AFW Pumps, stop 23 AFW pump, and feed the Steam Generators with 21 and 22 AFW pumps IAW Attachment 4. Neither 21 nor 22 AFP is operating.

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

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 (and NRC concurrence is obtained).**

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
		Evaluator provides copy of Attachment 4, S2.OP-AB.CR-0001, Control Room Evacuation.	Operator reviews Attachment 4 of S2.OP-AB.CR-0001, Control Room Evacuation.		
	1	Is 21 AFW Pump operating?	CUE: No, 21 AFW Pump is not operating.		
*	2	Perform the following to start 21 AFW Pump: <ul style="list-style-type: none"> • Place 21 AFW Pump Remote-Local Switch to LOCAL. • Place 21 AFW Pump Start-Stop Switch to START. 	At Panel 205, selects LOCAL and START. CUE: If actions were proper-21AFW Pump is running.		
	3	Is 22 AFW Pump operating?	CUE: No, 22 AFW Pump is not operating.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	4	Perform the following to start 22 AFW Pump: <ul style="list-style-type: none"> • Place 22 AFW Pump Remote-Local Switch to LOCAL. • Place 22 AFW Pump Start-Stop Switch to START. 	At Panel 206, selects LOCAL and START. <i>CUE:</i> If actions were proper-22AFW Pump is running.		
	5	Is 23 AFW Pump operating?	Determines 23 AFW pump is in service, from initial conditions or CUE if necessary.		
	6	Is 23 AFW pump required for Steam Generator Level control?	Determines from initial conditions that 23 AFW pump is to be removed from service.		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

#	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	7	Remove 23 AFP from service as follows: 7.1 Place 23 AFP Remote-Local Switch to LOCAL. 7.2 Reduce 23 AFP speed to minimum by slowly adjusting the 23 AFP INCREASE/OFF/DECREASE Switch to DECREASE. 7.3 Place the Start/Stop/Trip switch in TRIP. 7.4 Place 23 AFP Start/Stop/Trip in STOP. 7.5 GO TO Step 13.0	Opens doors for 207-2, locates and places switch in LOCAL position Rotates switch to the DECREASE position. CUE: 23 AFP speed is decreasing Places switch to TRIP. Places switch to STOP. Goes to correct procedure step		
*					
*					

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	13	Perform the following to take MANUAL control of 21AF21, Aux Feed-S/G Level Control Valve: <ul style="list-style-type: none"> • Manually adjust hand jack for 21AF21 to the valve's present position. • Close manual isolation valve 21AF21 A/S to pressure regulator in No. 2 Unit Redundant Air Supply Panel 700-2M. • Open the drain cock of the pressure regulator. • Manually adjust 21AF21 as required to maintain SG level at 14 to 33% NR level indicated on LI-517A. 	<ul style="list-style-type: none"> • Locates AF21 and discusses operation of hand jack. • Locates Panel 700-2M and discusses operation of correct valve. • Discusses operation of drain cock. • Discusses how to open 21AF21. <p>CUE: Open 21AF21 approx. 25%.</p> <p>NOTE: If operation of 21AF21 was correct and confident, then the Evaluator may terminate the JPM after 21AF21 has been operated.</p>		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	14	Perform the following to take MANUAL control of 22AF21, Aux Feed-S/G Level Control Valve: <ul style="list-style-type: none"> • Manually adjust hand jack for 22AF21 to the valve's present position. • Close manual isolation valve 22AF21 A/S to pressure regulator in No. 2 Unit Redundant Air Supply Panel 700-2Y. • Open drain cock of the pressure regulator. • Manually adjust 22AF21 as required to maintain SG level at 14-33% NR level indicated on LI-527A. 	<ul style="list-style-type: none"> • Locates AF21 and discusses operation of hand jack. • Locates Panel 700-2Y and discusses operation of correct valve. • Discusses operation of drain cock. • Discusses how to open 22AF21. <p><i>CUE:</i> Open 22AF21 approx. 25%.</p> <p>NOTE: If operation of 22AF21 was correct and confident, then the Evaluator may terminate the JPM after operating 22AF21.</p>		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	15	<p>Perform the following to take MANUAL control of 23AF21, Aux Feed-S/G Level Control Valve:</p> <ul style="list-style-type: none"> • Manually adjust hand jack for 23AF21 to the valve's present position. • Close manual isolation valve 23AF21 A/S to pressure regulator in No. 2 Unit Redundant Air Supply Panel 700-2F. • Open drain cock of the pressure regulator. • Manually adjust 23AF21 as required to maintain SG level at 14-33% NR level indicated on LI-537A. 	<ul style="list-style-type: none"> • Locates AF21 and discusses operation of hand jack. • Locates Panel 700-2F and discusses operation of correct valve. • Discusses operation of drain cock. • Discusses how to open 23AF21. <p>CUE: Open 23AF21 approx. 25%.</p> <p>NOTE: If operation of 23AF21 was correct and confident, then the Evaluator may terminate the JPM after operating 23AF21.</p>		

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **Auxiliary Feedwater**

TASK: **TCAF Control Room Evacuation-Feed SG's using 21/22 AFW Pump.**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVAL S/U	COMMENTS (Required for UNSAT Evaluation)
*	16	<p>Perform the following to take MANUAL control of 24AF21, Aux Feed-S/G Level Control Valve:</p> <ul style="list-style-type: none"> • Manually adjust hand jack for 24AF21 to the valve's present position. • Close manual isolation valve 24AF21 A/S to pressure regulator in No. 2 Unit redundant Air Supply Panel 700-2E. • Open drain cock of the pressure regulator. • Manually adjust 24AF21 as required to maintain SG level at 14-33% NR level indicated on LI-547A. 	<ul style="list-style-type: none"> • Locates AF21 and discusses operation of hand jack. • Locates Panel 700-2E and discusses operation of correct valve. • Discusses operation of drain cock. • Discusses how to open 24AF21. <p>CUE: Open 24AF21 approx. 25%.</p>		

TERMINATING CUE: Feeding Steam Generators via at least one AF21

JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

1. The control room has been evacuated IAW S2.OP-AB.CR-0001.

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

INITIATING CUE:

The CRS has assigned you to locally start 21 and 22 AFW Pumps, stop 23 AFW pump, and feed the Steam Generators with 21 and 22 AFW pumps IAW Attachment 4. Neither 21 nor 22 AFP is operating.

STATION: SALEM

SYSTEM: ABNORMAL PROCEDURES

TASK: TCAF Control Room Evacuation (Trip Turbine, Open Exciter Field Breaker, Trip SGFP's)

TASK NUMBER: 114 013 04 01

JPM NUMBER: INDIA NRC IP-3

K/A NUMBER: APE 068 AA1.04, EA1.23, AA1.27

APPLICABILITY:

E RO SR

IMPORTANCE FACTOR:	All >3.0	All >3.0
	RO	SRO

EVALUATION SETTING/METHOD: In-Plant Simulate

REFERENCES : S2.OP-AB.CR-0001, Rev. 19 Att. 8

TOOLS AND EQUIPMENT: None

VALIDATED JPM COMPLETION TIME: 5 mins.

TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS: N/A

APPROVED:

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

CAUTION: No plant equipment shall be operated during the performance of a JPM without the following:

1. Permission from the sm Or Unit CRS;
2. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
3. Verification of the “as left” condition by a qualified individual.

ACTUAL JPM COMPLETION TIME: _____

ACTUAL TIME CRITICAL COMPLETION TIME: _____

JPM PERFORMED _____ **GRAD** **SAT** **UNSAT**

REASON, IF UNSATISFACTORY:

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

NAME: _____

DATE: _____

SYSTEM: ABNORMAL PROCEDURES

TASK: TCAF Control Room Evacuation (Trip Turbine, Open Exciter Field Breaker, Trip SGFP's)

TASK NUMBER: 114 013 04 01

INITIAL CONDITIONS:

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

1. The control room has been evacuated due to a bomb threat.

INITIATING CUE:

You are assigned to carry out the actions of AB.CR-1, Attachment 8, Steps 1.0-4.0: Trip the Main Turbine, open the Exciter Field Breaker, trip the SGFP's.

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 (and NRC concurrence is obtained).

OPERATOR TRAINING PROGRAM
JOB PERFORMANCE MEASURE

NAME: _____
DATE: _____

SYSTEM: **ABNORMAL PROCEDURES**

TASK: **TCAF Control Room Evacuation: Trip MT, Open Exciter Field Breaker, Trip SGFP's**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
	1	Obtain the following: One copy of procedure, one radio, Key ring set and tools.	Evaluator provides copy of AB.CR-0001, Att. 8. Operator locates Appendix R cabinet. CUE: You have the radio, key ring, and required tools.		
*	2	Proceed to Turbine Front Standard, and place the Reset-Normal-Trip Lever in the TRIP position.	Proceeds to turbine front standard, locates lever and points out TRIP position.		
*	3	Proceed to Excitation System Control Cubicle and open Generator Exciter Field Breaker.	Proceeds to Turb. Bldg., El. 120, locates breaker and discusses opening.		

OPERATOR TRAINING PROGRAM
 JOB PERFORMANCE MEASURE

NAME: _____
 DATE: _____

SYSTEM: **ABNORMAL PROCEDURES**

TASK: **TCAF Control Room Evacuation: Trip MT, Open Exciter Field Breaker, Trip SGFP's**

# *	STEP NO.	STEP (*Denotes a Critical Step) (#Denotes a Sequential Step)	STANDARD	EVA L	COMMENTS (Required for UNSAT Evaluation)
*	4	Locally, trip the following: <ul style="list-style-type: none"> • 21 SGFP • 22 SGFP 	Proceeds to Turb. Bldg., El. 100, locates each local trip PB and discusses operation of at least one. 5.1 CUE: JPM is complete		

JOB PERFORMANCE MEASURE

INITIAL CONDITIONS:

1. The control room has been evacuated due to a bomb threat.

JOB PERFORMANCE MEASURE

INITIATING CUE: You are assigned to carry out the actions of AB.CR-1, Attachment 8, Steps 1.0-4.0:
Trip the main turbine, open the exciter field breaker, trip both SGFP's.

STATION: SALEM
SYSTEM: WASTE GAS
TASK: CONDUCT AN AUTHORIZED WASTE GAS RELEASE
TASK NUMBER: 071 507 01 04

ALTERNATE PATH YES
JPM NUMBER: INDIA NRC IP-3

APPLICABILITY: NEO RO SRO

K/A NUMBER: 071 000 A4.26

IMPORTANCE FACTOR: 3.1 RO 3.9 SRO

EVALUATION /SETTING METHOD: Auxiliary Building/Simulate

REFERENCES: S2.OP-SO.WG-0008, Discharge of 21 Gas Decay Tank To The Plant Vent, Rev. 26

TOOLS AND EQUIPMENT: NONE

VALIDATED JPM COMPLETION TIME: 10 minutes

TIME PERIOD FOR TIME CRITICAL STEPS:

APPROVED:

BARGAINING UNIT OPERATIONS TRAINING OPERATIONS DIRECTOR OR
REPRESENTATIVE MANAGER DESIGNEE

CAUTION:

No plant equipment shall be operated during the performance of a JPM without the following:

- 1. Permission from the SM or Unit CRS;
- 2. Direct oversight by a qualified individual (determined by the individual granting permission based on plant conditions).
- 3. Verification of the "as left" condition by a qualified individual.

ACTUAL TIME TO COMPLETE JPM: _____

CANDIDATE'S NAME: _____

JOB PERFORMANCE MEASURE

GRADE:

SAT

UNSAT

REASON, IF UNSATISFACTORY:

EVALUATOR'S SIGNATURE: _____ DATE: _____

JOB PERFORMANCE MEASURE

SYSTEM: WASTE GAS

TASK: CONDUCT AN AUTHORIZED WASTE GAS RELEASE

TASK NUMBER: 071 507 01 04

INITIAL CONDITIONS: 21 Gas Decay Tank is aligned for HOLDUP with 21WG31 tagged closed. Attachment 2, No. 21 GDT Release Form, has been completed through Part 4 with final release approval authorized by the CRS. Control Air, Auxiliary Building and Fuel Handling Building Ventilation are aligned as necessary to support the release. All Rad monitors and Sample Flow Rate monitors required to support the released are OPERABLE.

INITIATING CUE: You have been directed to conduct the release of 21 Gas Decay Tank to the Plant Vent, IAW Section 5.2 of S2.OP-SO.WG-0008, DISCHARGE OF 21 GDT TO PLANT VENT, starting at Step 5.2.10

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**
- 4. JPM completed within validated time. Completion may exceed the validated time if satisfactory progress is being made (and NRC concurrence is obtained).**

JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

DATE: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD	EVAL S/U	COMMENTS
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accompany an UNSAT Evaluation.					

	5.2.10	OBTAIN the CRS Tagging Release for 21WG31.	<p>Discusses obtaining Tagging Release paperwork.</p> <p>CUE: Tagging Release granted and paperwork processed.</p> <p>NOTE: If candidate requests actual sampling/analysis paperwork, cue them that the CRS has retained the paperwork and that they are to continue with the release.</p>		
	5.2.11	<p>Perform the following preparations at PNL 104-2 for the GDT release:</p> <p>A. ENSURE 21 GDT is <u>NOT</u> in service</p> <p>B. ENSURE 21 GDT is <u>NOT</u> selected for "Standby"</p> <p>C. RECORD 21 GDT "Initial Pressure" on Att. 3</p>	<p>Proceeds to panel 104-2 and:</p> <ul style="list-style-type: none"> • Verifies 21WG 31 is closed. <p>CUE: 21WG31 is shut and has the appropriate RED BLOCKING TAG applied.</p> <ul style="list-style-type: none"> • Verifies PNL 104 Standby Selector Switch <u>NOT</u> selected to 21 GDT. <p>IF the selector switch is in the "21" position, the state "21 Gas Decay Tank is not selected for Standby".</p> <ul style="list-style-type: none"> • Records initial pressure from PIS1036. <p>CUE: Pressure is 92 PSIG.</p>		

JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

DATE: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD	EVAL S/U	COMMENTS
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accompany an UNSAT Evaluation.					

5.2.11.D		<p>Latch and set 2WG41, GDT VENT CONT VALVE, as follows:</p> <ol style="list-style-type: none"> 1. Turn controller fully COUNTERCLOCKWISE, until indicator <0%. 2. POSITION Selector Switch to OPEN <u>AND</u> RELEASE to AUTO position. (Spring return to AUTO) 3. TURN controller clockwise until indicator $\geq 100\%$ 4. ENSURE with Unit 2 Control Room that 2WG41 valve has lost the CLOSED indication AND audible alarm received. 5. TURN controller fully counterclockwise until indicator <0% 6. ENSURE with Unit 2 Control Room that 2WG41 has CLOSED. 	<p>Tests 2WG41 as described</p> <p>CUE: Indicator <0%</p> <p>CUE: WG41 in AUTO</p> <p>CUE: Indicator >100%</p> <p>CUE: WG41 not closed and audible alarm received.</p> <p>CUE: Indicator <0%.</p> <p>CUE: WG41 indicates closed.</p>		
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JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

DATE: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD	EVAL S/U	COMMENTS
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accompany an UNSAT Evaluation.					

	5.2.11.E	PERFORM an Independent Verification of the 2WG41 Valve Position Controller AND RECORD the IV on Attachment 1, Section 2.0.	CUE: IV of 2WG41 Valve Position Controller is satisfactory.		
*	5.2.11.F	OPEN 21WG31, GDT Inlet Valve	Uses self verification techniques, removes Tag from valve, and OPENS valve.		
*	5.2.11.G	Slowly OPEN 21WG34	OPENS valve. CUE: 21WG34 is OPEN.		
	5.2.11.H	RECORD IV of 21WG31 and 21WG34 on Attachment 1, Section 3.0	Requests IV. CUE: IV of 21WG31 and 21WG34 is satisfactory		
*	5.2.12	<p>COMMENCE 21 GDT Release as follows:</p> <p>A. Position 2WG41 Selector Switch to OPEN <u>AND</u> release to AUTO position</p> <p>B. SLOWLY SET 2WG41 controller to $\leq 100\%$ position which corresponds to a maximum release rate of 32 SCFM</p> <p>C. PERFORM an Independent Verification of 2WG41 positioning on ATT. 1 Section 4.0</p>	<p>Places 2WG41 to OPEN and verifies spring return to AUTO. CUE: WG41 in AUTO.</p> <p>Slowly opens 2WG41 CUE: 2WG41 indicates 99%. (32 scfm)</p> <p>Requests IV CUE: IV of 2WG41 position is satisfactory.</p>		

JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

DATE: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD	EVAL S/U	COMMENTS
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accompany an UNSAT Evaluation.					

		D. RECORD In Progress Release Data on Attachment 2, Section 5.1	<p>Records Data CUE: 2WG38 downstream pressure is 8.7 PSIG.</p> <p>If requested, IV of 2WG38 pressure confirms 8.7 PSIG and 2WG41 position at <100%. If requested Met data is: Wind Speed 14 mph @ 150' Wind Direction 45 deg at 150' D/T 150'-33' is 3 deg C</p> <p>AT this point, Operator should realize that the release rate is > 32 scfm due to the pressure downstream of WG38 being higher than 8 psig.</p> <p>Operator should perform Step 5.2.13.D to terminate the release. (Con't)</p>		
*	5.2.13.D	<p><u>IF</u> at any time during the release the pressure downstream of 2WG38 is >8.0 psig, <u>OR</u> 2WG41 CLOSES, <u>THEN</u> TERMINATE the GDT as follows:</p> <ol style="list-style-type: none"> TURN 2WG41 controller fully counter-clockwise until indicator is <0 %. PLACE 2WG41-SWT in CLOSE 	<p>TURN 2WG41 controller fully counter-clockwise until indicator is <0 %. CUE: 2WG41 Controller reads <0%.</p>		

JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

DATE: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD	EVAL S/U	COMMENTS
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accompany an UNSAT Evaluation.					

		position, <u>AND ENSURE</u> 2WG41 is CLOSED. 3. CLOSE 21WG34.	Places 2WG41-SWT in CLOSE position, <u>AND</u> ensures 2WG41 is CLOSED. CUE: 2WG41 indicates CLOSED. Closes 2WG34. CUE: 21WG34 is CLOSED. 5.2 CUE: JPM is COMPLETE		
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JOB PERFORMANCE MEASURE

CANDIDATE'S
NAME: _____

SYSTEM: WASTE GAS
TASK: Conduct an Authorized Waste Gas Release

# *	STEP No.	STEP	STANDARD
NOTES: 1) "*" denotes a Critical Step and "#" denotes a Sequential step. 2) COMMENTS must accom			

**INITIAL
CONDITIONS:**

21 Gas Decay Tank is aligned for HOLDUP with 21WG31 tagged closed. Attachment 2 No.21 GDTRelease Form, has been completed through Part 4 with final release approval authorized by the CRS. Control Air, Auxiliary Building and Fuel Handling Building Ventilation are aligned as necessary to support the release. All Rad monitors and Sample Flow Rate monitors required to support the released are OPERABLE.

INITIATING CUE: You have been directed to conduct the release of 21 Gas Decay Tank to the Plant Vent, IAW Section 5.2 of S2.OP-SO.WG-0008, DISCHARGE OF 21 GDT TO PLANT VENT, starting at Step 5.2.10.