NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT
JOB PERFORMANCE MEASURE

Number: LJPNRC-4

Title: TRANSFER PRESSURIZER HEATER GROUP 13 TO BACKUP POWER

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: OP A-4A:I, Pressurizer - Make Available, Rev 13A

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 15 minutes

Critical Steps: 7, 9

Job Designation: RO/SRO

Task Number: 010A4.02

Rating: 3.6/3.4

AUTHOR:	DAVE BURNS	DATE:	1/23/2000
REVIEWED BY:	N/A	DATE:	N/A
	JPM COORDINATOR		
APPROVED BY:	N/A	DATE:	N/A
	TRAINING LEADER		REV. 0

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	The Unit 1 Reactor Coolant System is being filled and vented. Offsite power is available.
Initiating Cue:	The Shift Foreman directs you to energize pressurizer heater group 13 from its backup power supply per OP A-4A:I, Section 6.3.
Task Standard:	The control room is notified that pressurizer heater group 13 has been transferred to the backup power supply.

Start Time:

Step	Expected Operator Actions
1.1	1. Place control switch for heater group 13 in the OFF position.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator goes to or calls the control room to check the position of the control switch for heater group 13.

****

Cue: The control switch for heater group 13 is in the OFF position and the green light is ON.

****

Step was: Sat: _____ Unsat _____*

1.2 2. Verify that heater group 13 normal breaker, 52-13E-2 is open.

2.1

Operator locates the normal breaker for heater group 13 on load center 13.

2.2 Verifies that the breaker is open.

****

Cue: Breaker is open.

****

Step was: Sat: _____ Unsat _____*

2.3 3. Place the DC control power switch for pressurizer heater group 13 normal breaker in the OFF position.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator locates the DC control power switch for heater group 13 normal breaker on load center 13.

3.2 Places the control power switch in the OFF position.

Step was: Sat: _____ Unsat _____*

3.3 4. Check heater group 13 backup breaker, 52-1H-74 open.

4.1

Operator locates heater group 13 backup breaker.

4.2 Observes the breaker is open.

Step was: Sat: _____ Unsat _____*

4.3

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

5. Check open the DC control power knife switch for heater group 13 backup breaker.	**Note: The examinee should simulate this step. The cover should not be removed from the DC panel.**
	5.1 Operator locates the DC control power knife switch for heater group 13 (located above the vital breaker).
	5.2 Verifies that the knife switch is open.
	Step was: Sat: _____ Unsat _____*
	5.3 6. Verify that both white potential lights on the manual transfer switch are not lit.
	6.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator locates the manual transfer switch on the wall next to the 52-1H-74 breaker.

Note: Since the normal breaker is available, a white light may be ON.

6.2 Observes that neither white light is ON.

****

Cue: Both lights are OFF.

****

Step was: Sat: _____ Unsat _____*

6.3 7. ** Move the transfer switch down to the backup (vital) bus position.

Note: Cutting the seal is NOT actually performed. A sealed valve change form will not be needed.

7.1 Operator positions the switch to the backup supply.

Step was: Sat: _____ Unsat _____*

7.2

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

8. Check the heater group 13 backup breaker, 52-1H-74 racked in.	Operator verifies that the heater group 13 backup breaker is racked in. **Step was: Sat: _____ Unsat _____***
8.1	
8.2	9. ** Close the DC control power knife switch for heater group 13 backup breaker.
9.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator locates the control power knife switch above 52-1H-74.	Operator locates the D.C. charging power switch on the lower front of 52-1H-74.
9.2 Places the knife switch in the CLOSE position.	10.2 Verifies the switch is on.
Step was: Sat: _____ Unsat _____*	**Step was: Sat: _____ Unsat _____***
9.3 10. Verify the D.C. charging power switch for heater group 13 backup breaker, 52-1H-74 is on.	10.3 11. Notify the control room of the status of heater group 13.
10.1	11.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator notifies the control room that heater group 13 has been transferred to the backup power supply.

Step was: Sat: _____ Unsat _____*

11.2

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	The Unit 1 Reactor Coolant System is being filled and vented. Offsite power is available.
Initiating Cue:	The Shift Foreman directs you to energize pressurizer heater group 13 from its backup power supply per OP A-4A:I, Section 6.3.
Task Standard:	The control room is notified that pressurizer heater group 13 has been transferred to the backup power supply.

Number: LJPNRC-5

Title: Isolate a Ruptured LHUT

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: OP AP-14, Tank Ruptures, Rev. 7

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 15 Minutes

Critical Steps: 1, 2, 3

Job Designation: RO/SRO

Task Number: 068A4.02

Rating: 3.2/3.1

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	PK 64-15 , LHUT 1-1 Lvl Lo and PK 64-31, Unit 1 LHUT Press Lo are in alarm due to a Liquid Holdup Tank (LHUT) rupture. LHUT 1-1 is aligned to receive diverted CVCS and aligned to the Waste Gas System for cover gas.
Initiating Cue:	You are directed by the Unit 1 Shift Foreman to isolate LHUT 1-1, per OP AP-14, step 8f.
Task Standard:	Ruptured LHUT is isolated and an unaffected LHUT is aligned for diversion of the CVCS system.

Start Time:

Step	Expected Operator Actions
1.	**Close Ruptured LHUT Inlet valve.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator selects closed position on FCV-5, LHUT 1-1 inlet valve control switch	Operator selects closed position on FCV-407, GDT 1-1 purge valve.
Note: FCV-5 control switch is located at the Aux. Control board.	**Note: FCV-407 control switch is located at the Aux. Control board.**
1.2 Operator verifies FCV-5 is closed using green light on and red light off above control switch.	2.2 Operator verifies FCV-407 is closed using green light on and red light off above control switch.
Step was: Sat: _____ Unsat _____*	**Step was: Sat: _____ Unsat _____***
1.3 2. ** Close Gas Decay Tank Purge Valve.	2.3 3. **Isolate Nitrogen Supply to LHUTs
2.1	3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator manually closes CVCS-8264, N_2 Supply to Waste Gas Compressors.

3.2 Operator manually closes N_2-1-41, N_2 supply to LHUTs

Step was: Sat: _____ Unsat _____*

3.3

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	PK 64-15 , LHUT 1-1 Lvl Lo and PK 64-31, Unit 1 LHUT Press Lo are in alarm due to a Liquid Holdup Tank (LHUT) rupture. LHUT 1-1 is aligned to receive diverted CVCS and aligned to the Waste Gas System for cover gas.
Initiating Cue:	You are directed by the Unit 1 Shift Foreman to isolate LHUT 1-1, per OP AP-14, step 8f.
Task Standard:	Ruptured LHUT is isolated and an unaffected LHUT is aligned for diversion of the CVCS system.

Number: LJPNRC-6

Title: CROSS TIE CCW SYSTEM BETWEEN UNITS

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: OP AP SD-4, Loss of Component Cooling Water, Appendix D, Rev. 12

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 15 minutes

Critical Steps: 1, 3

Job Designation: RO/SRO

K/A Number: 008A2.02

Rating: 3.2/3.5

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.
Required Materials:	909 Key
Initial Conditions:	PK01-07, CCW SYS SURGE TK LVL/MK-UP and PK01-14, CCW SURGE TANK PRESSURE are in alarm due to a leak in the CCW surge tank on Unit 2. The CCW system has been walked down and determined to be intact with the exception of the leak which is limited to the surge tank. The Unit 1 CCW system is available for cross-tie.
Initiating Cue:	You are directed by the Shift Foreman to Cross-Tie CCW between Units, per OP AP SD-4, Appendix D, beginning at step 2.
Task Standard:	CCW system is cross-tied.

Start Time:

Step	Expected Operator Actions
	1. **Isolate Surge Tank on Unit 2
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator locates CCW-51 (100' Pen Area GW), unlocks and closes.

****

Cue: CCW-51 is closed.

****

1.2 Operator locates CCW-52 (100' Pen Area GW), unlocks and closes.

****

Cue: CCW-52 is closed.

****

Step was: Sat: _____ Unsat _____*

1.3 2. Isolate Makeup to Surge Tank on Unit 2.

2.1 Operator locates CCW-61 and closes (100' Pen Area GW).

****

Cue: CCW-61 is closed.

****

2.2 Operator locates CCW-64 and closes (100' Pen Area GW).

****

Cue: CCW-64 is closed.

****

Note: CCW-61 & 64 are sealed valves. The operator should discuss completing a sealed valve change form after completing the task.

Step was: Sat: _____ Unsat _____*

3. **Cross-Tie CCW between Units.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator locates CCW-1-356 and checks open (78' ASDR Mezzanine).

****

Cue: CCW-1-356 is open.

****

3.2 Operator locates CCW-2-356 and opens (78' ASDR Mezzanine).

****

Cue: CCW-2-356 is open.

****

3.3 Operator checks makeup capability adequate by checking Unit 1 CCW Surge Tank is maintaining level.

****

Cue: Unit 1 Control Room reports Unit 1 CCW Surge Tank level is 54% and constant.

****

Step was: Sat: _____ Unsat _____*

3.4

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	PK01-07, CCW SYS SURGE TK LVL/MK-UP and PK01-14, CCW SURGE TANK PRESSURE are in alarm due to a leak in the CCW surge tank on Unit 2. The CCW system has been walked down and determined to be intact with the exception of the leak which is limited to the surge tank. The Unit 1 CCW system is available for cross-tie.
Initiating Cue:	You are directed by the Shift Foreman to Cross-Tie CCW between Units, per OP AP SD-4, Appendix D, beginning at step 2.
Task Standard:	CCW system is cross-tied.

Number: LJCNRC-8

Title: ESTABLISH STEADY STATE CONDITIONS AFTER A ROD MISALIGNMENT ~~(PRIVATE)~~

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: OP AP-12B, Control Rod Misalignment, Rev. 8A

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 10 minutes

Critical Steps: 2, 3, 4, 5

Job Designation: RO/SRO

Task Number: 001A2.17

Rating: 3.3/3.8

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	The plant is at approximately 75% power ramping up to 100% at 5 MW/minute. The rods are in AUTO with a dilution in progress.
Initiating Cue:	Control rod K2 is determined to be greater than 12 steps below the other rods in control bank D, group 2. You are directed by the Shift Foreman to take corrective actions.
Task Standard:	Plant stabilized with T_{avg} matched to T_{ref} ($\pm 0.5^\circ$ F).

Start Time:

Step	Expected Operator Actions
	1. Obtain the correct procedure.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References OP AP-12B.

Note: The operator may get to OP AP-12B from AR PK03-25. Some of the steps below may have been done per AR PK03-25.

Step was: Sat: _____ Unsat _____*

1.2 2. ** Place Rod Control in MANUAL.

2.1

Places the rod control selector switch to MANUAL.

Step was: Sat: _____ Unsat _____*

2.2 3. ** Stop any turbine load changes.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

	Places the turbine on HOLD. **Step was: Sat: _____ Unsat _____***	
3.2	4. ** Stop any RCS boration or dilution in progress.	Places the STOP/START switch to STOP (or places the MODE selector switch out of the DILUTE position). **Step was: Sat: _____ Unsat _____***
4.1		

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

~~4.2~~ 5. ** Match T_{avg} to T_{ref}.

****

Cue: Shift Foreman directs that T_{avg} and T_{ref} be matched to within ±0.5° F.

****

5.1 Matches T_{avg} to T_{ref} (±0.5° F) by changing turbine load.

OR

5.2 Matches T_{avg} to T_{ref} (±0.5° F) by boration/dilution.

Note: The intent of this element is to ensure the operator has the ability to match T_{avg} to T_{ref} by going in the correct direction. The instructor may cue the operator that T_{avg} is 0.5 ° F below T_{ref} prior to temperature being matched if time is a consideration.

Step was: Sat: _____ Unsat _____*

5.3

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	The plant is at approximately 75% power ramping up to 100% at 5 MW/minute. The rods are in AUTO with a dilution in progress.
Initiating Cue:	Control rod K2 is determined to be greater than 12 steps below the other rods in control bank D, group 2. You are directed by the Shift Foreman to take corrective actions.
Task Standard:	Plant stabilized with T_{avg} matched to T_{ref} ($\pm$0.5° F).

☐

Initialize the simulator to snap LJCNRC8 - "init LJCNRC8"
OR

☐ Initialize the simulator to the IC-2 (75%, BOL).

☐ Enter drill file 1022 or manually insert the following:

Command	Description
1. mal~~mal~~ rod4a act,1,k2,0,d,0	Sticks rod K-2
2. mal rcs~~rcs~~5 act,1500,300,0,d,mcrfpa(14) gt.207	Borates to get rods a~~t~~bove K2
3. ser 1251~~1~~ act,1,0,0,d,0	Ensures P250 alarm
4. frz when mcrfpa (14).gt.207 Run ~~0~~	Freeze sim when Control Bank D is greater than 207 steps

~~☐~~ P~~P~~erform the following:

1. W~~W~~ith the file running, complete the following:
   a. I~~I~~nitiate a 1000 dilution
   b. Set VPL to 100%
   c. C~~C~~ommence a ramp @ 5 MW/min to 1125
   (E~~E~~nsure MW feedback is IN for the ramp)
2. A~~A~~fter Control Bank D is greater than 207 steps, the simulator will go to FREEZE.

☐ Inform~~m~~ the examiner that the simulator setup is complete.

☐ Go to R~~R~~UN when the examinee is given the cue sheet.

Number: LJCNRC-9

Title: INCREASE ACCUMULATOR PRESSURE

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: AR PK02-05, ACCUM PRESSURE HI-LO, Rev. 13A

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 10 minutes

Critical Steps: 4, 5

Job Designation: RO/SRO

Task Number: 006A1.13

Rating: 3.5/3.7

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	Unit 1 is 100% power, steady state conditions.
Initiating Cue:	Annunciator PK02-05, ACCUM PRESSURE HI-LO, is in alarm.
Task Standard:	Restore accumulator pressure to within normal range.

Start Time:

Step	Expected Operator Actions
1.	Obtain the correct procedure.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator references AR PK02-05.

1.2 Checks annunciator and determines alarm is for accumulator 11.

Step was: Sat: _____ Unsat: _____*

1.3 2. Verify abnormal condition.

2.1

Operator verifies accumulator pressure is low.

2.2 Verifies accumulator level is normal.

2.3 Notifies the Shift Foreman of Tech Spec 3.5.1 action statement.

****

Cue: The Shift Foreman will address the Tech Spec for accumulator low pressure.

****

Step was: Sat: _____ Unsat: _____*

2.4 3. Check open valve 8880, nitrogen fill header isolation.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator verifies valve 8880 open by checking red light ON.

Step was: Sat: _____ Unsat: _____*

3.2

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. ** Open valve 8875A, accumulator 11 fill and vent isolation.	Operator reviews caution and positions switch for 8875A to OPEN. **Step was: Sat: _____ Unsat: _____***
4.1	
4.2	5. ** Close valve 8875A after pressure returns to normal.
5.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Operator positions switch for 8875A to CLOSE when pressure returns to normal (595.5 to 647.5 psig). **Step was: Sat: _____ Unsat: _____***	Operator verifies PK02-05 alarm is out. **Step was: Sat: _____ Unsat: _____***
5.2 6. Verify PK02-05 is no longer in alarm.	6.2
6.1	

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is 100% power, steady state conditions.

Initiating Cue: Annunciator PK02-05, ACCUM PRESSURE HI-LO, is in alarm.

Task Standard: Restore accumulator pressure to within normal range.

☐ Initialize the simulator to snap LJCNRC9 - "init LJCNRC9"

OR

☐ Initialize the simulator to the IC-1 (100%, BOL).

☐ Enter drill file 1077 or manually insert the following:

Command	Description
1. delm psisacc(1)	Removes point from monitor screen
1. monv psisacc(1)	Monitors Accumulator 1-1 pressure
1. set psisacc(1)=609	Decreases Accumulator 1-1 pressure to 594 psig
1. ser 1251 act,f,0,0,d,0,	Overrides P250 Alarm
1. run 10	Runs sim for 10 seconds

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee is given the cue sheet.

Nuclear Power Generation
Diablo Canyon Power Plant
Job Performance Measure

Number: LJCNRC-10

Title: ISOLATE RUPTURED STEAM GENERATOR 12

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: EOP E-3, Steam Generator Tube Rupture, Rev. 17

Alternate Path: Yes X No

Time Critical: Yes No X

Time Allotment: 10 minutes

Critical Steps: 2, 4, 7, 9

Job Designation: RO/SRO

Task Number: 035A2.01

Rating: 4.5/4.6

AUTHOR:	DAVE BURNS	DATE:	3/27/2000
REVIEWED BY:	N/A	DATE:	N/A
	JPM COORDINATOR		
APPROVED BY:	N/A	DATE:	N/A
	TRAINING LEADER		REV. 1

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	A steam generator tube rupture occurred on steam generator 12. All required actions of EOP E-0 and EOP E-3 are complete up to the isolation of steam generator 12.
Initiating Cue:	You have been directed by the Shift Foreman to isolate steam generator 12 in accordance with EOP E-3 Steps 3 and 4.
Task Standard:	Steam generator 12 is isolated per Steps 3 and 4 of EOP E-3.

Start Time:

Step	Expected Operator Actions
	1. Obtain the correct procedure.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References EOP E-3.

1.2 Reads CAUTIONS prior to Step 3.a.

Step was: Sat: _____ Unsat _____*

1.3 2. **Verify ruptured SG 10% steam dump controller in AUTO and set to 1040 psig.

2.1 Verifies SG 12 10% steam dump controller is in AUTO.

2.2 Turns controller pot setting to 1040 psig (8.67 turns).

Step was: Sat: _____ Unsat _____*

2.3 3. Check ruptured SG 10% steam dump valve closed.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks that PCV-20 is closed. (VB3 controller output at 0% or Steam Dump valve status green light ON.)

Note: The 10% steam dump may open due to SG pressure. If this occurs, the RNO for this step should be performed.

Step was: Sat: _____ Unsat _____*

3.2 4. **Close steam supply valves from the ruptured SGs to the TD AFW pump.

4.1

Places FCV-37 control switch to CLOSE.

Step was: Sat: _____ Unsat _____*

4.2 5. Verify blowdown and sample isolation valves outside containment from the ruptured SG are closed.

5.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Verifies blowdown isolation valve, FCV-154, is closed. (VB3 green light ON.)

5.2 Verifies sample isolation valve, FCV-248, is closed. (VB3 green light ON.)

Step was: Sat: _____ Unsat _____*

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

6. Remove subcooled margin monitor input from SG 12.	Places RCS loop wide range T_{hot} input TE-423 for SG 12 to loop out. **Step was: Sat: _____ Unsat _____***
6.1	6.2 7. **Close ruptured steam generator MSIV and MSIV bypass valves.
	7.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Places SG 12 MSIV, FCV-42, in the CLOSE position.

7.2 Verifies FCV-42 green light is ON and red light is OFF. (Not critical)

7.3 Checks SG 12 MSIV bypass valve FCV-24 is closed; green light is ON. (Not critical)

Step was: Sat: _____ Unsat _____*

7.4 8. Check ruptured SG NR level greater than 6%.

8.1

Reads CAUTION prior to Step 4.a.

8.2 Checks SG 12 narrow range level greater than 6% (VB3 level indicators).

Step was: Sat: _____ Unsat _____*

8.3

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

9. ** Stop feed flow to the ruptured steam generator.	Places LCV-107 control switch in the CLOSE position.
9.1	9.2 Verifies LCV-107 green light is ON and red light is OFF.
	9.3 Transfers the controller for LCV-111 to MANUAL and depresses the lower pushbutton until the valve position indicator reads 0%.
	9.4 Determines that LCV-111 is failed open.

****

Cue: If operator requests to use a Hutch Interlock, inform him the Shift Supervisor will not allow use of Hutch Interlock and directs him to manually shut the pump down.

****

9.5 Secures AFW pump 1-2.

- Resets Safety Injection
- Cuts out Auto start of AFW Pumps from trip of Main Feedwater Pumps toggle switch.
- Shuts down AFW pump 1-2

9. Checks AFW flow (FI-158) is isolated by checking flow to SG 12 at 0 gpm. (Not Critical)

Step was: Sat: _____ Unsat _____*

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

0.1

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: A steam generator tube rupture occurred on steam generator 12. All required actions of EOP E-0 and EOP E-3 are complete up to the isolation of steam generator 12.

Initiating Cue: You have been directed by the Shift Foreman to isolate steam generator 12 in accordance with EOP E-3 Steps 3 and 4.

Task Standard: Steam generator 12 is isolated per Steps 3 and 4 of EOP E-3.

☐

Initialize the simulator to snap LJCNRC10 - "init LJCNRC10"

☐ Run Drill 5001

OR

☐ Type "init ljc031" at the expert screen command line. Click the BYPASS SWCK button on the expert screen to continue after boards are aligned. The SNAP for LJC-031 will also work for this JPM.

☐ Manually insert the following:

Command	Description
a. cnv afw2 2,1,0,0,d,0	Fails LCV-111 full open

☐ This SNAP allows entry into EOP E-3, Step 3, Steam Generator Tube Rupture. S/G 12 Level is approximately 10%. Leave simulator in FREEZE.

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee is given the cue sheet.

Nuclear Power Generation
Diablo Canyon Power Plant
Job Performance Measure

Number: LJCNRC-11

Title: SECURE CONTAINMENT SPRAY

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: EOP E-1, Loss of Reactor or Secondary Coolant, Rev. 16

Alternate Path: Yes No X

Time Critical: Yes No X

Time Allotment: 5 minutes

Critical Steps: 6, 7, 8

Job Designation: RO/SRO

Task Number: 026A2.08

AUTHOR:	DAVE BURNS	DATE:	3/27/2000
REVIEWED BY:	N/A	DATE:	N/A
	JPM COORDINATOR		
APPROVED BY:	N/A	DATE:	N/A
	TRAINING LEADER		REV. 1

Rating: 3.2/3.7

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	Unit 1 experienced a steam line break inside containment. Containment spray pump 12 experienced an overcurrent trip. EOP E-1 is complete up to Step 5.
Initiating Cue:	The Shift Foreman directs you to evaluate and secure, as appropriate, the Containment Spray system.
Task Standard:	The Containment Spray system is aligned as required by plant conditions.

Start Time:

Step	Expected Operator Actions
1.1	1. Obtain the correct procedure.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References EOP E-1.

Step was: Sat: _____ Unsat: _____*

1.2 2. Check PK01-18, CONTAINMENT SPRAY ACTUATION - ON.

2.1

Observes that PK01-18 is ON.

Step was: Sat: _____ Unsat: _____*

2.2 3. Check containment radiation levels.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Observes PK11-21, HIGH RADIATION, is OFF.

3.2 Observes normal indication on RE-2 and RE-7.

Note: Use of RMS cabinet 1, SPDS or PPC is acceptable.

3.3 Observes PK11-19, CONTMT RADIATION, is OFF.

3.4 Observes normal indication on R-30 and R-31.

Step was: Sat: _____ Unsat: _____*

3.5 4. Check containment pressure.

4.1

Observes containment pressure greater than 20 psig. (PI-934, 935, 936, 937 on VB1)

****

Cue: <u>If</u> containment pressure reads less than 20 psig, inform examinee that containment pressure is 22 psig.

****

Step was: Sat: _____ Unsat: _____*

4.2

5. Verify containment spray system is still in operation.

5.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Observes Containment Spray pump 1-1 is running. (Red light ON and amps are normal).

Step was: Sat: _____ Unsat: _____*

5.2 6. ** Reset Containment Spray trains A and B.

****

Cue: If containment pressure remains above 20 psig, inform examinee that containment pressure is 18 psig

****

6.1 Resets the Containment Spray trains A & B.

6.2 Checks that PK01-18, CONTAINMENT SPRAY ACTUATION, goes out (not critical).

Step was: Sat: _____ Unsat: _____*

6.3 7. **Stop Containment Spray Pump.

7.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Places the control switch for CSP 1-1 to the STOP position.	Places the control switches for 9001 A & B to the CLOSE position.
Step was: Sat: _____ Unsat: _____*	**Step was: Sat: _____ Unsat: _____***

7.2 8. ** Close 9001 A & B.

8.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

9. Verifies close 9003 A & B.	Observes 9003 A & B are CLOSED.
9.1	**Step was: Sat: _____ Unsat _____***
9.2	10. Close 8994A & B
10.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Place control switches for 8994
A & B to the CLOSE position.

Step was: Sat: _____ Unsat _____*

10.2

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 experienced a steam line break inside containment. Containment spray pump 12 experienced an overcurrent trip. EOP E-1 is complete up to Step 5.

Initiating Cue: The Shift Foreman directs you to evaluate and secure, as appropriate, the Containment Spray system.

Task Standard: The Containment Spray system is aligned as required by plant conditions.

☐

Initialize the simulator to snap LJCNRC11 - "init LJCNRC11"

☐ Run Drill 5001

OR

☐ Initialize the simulator to IC-01 (100%, BOL).

☐ Enter drill file 1080 or manually insert the following:

Command	Description
1. mal mssla act,4e+07,0,0,d,0 mal mss1b act,4e+07,0,0,d,0 mal msslc act,4e7,60,0,d	Break SG 11,12, and 13 inside containment
2. pmp css2 6,10,0,0,d,0	Trip containment spray pump 12
5. set tocean=68	Setup to keep containment press greater than 20 psig
6. ovr xrei022h,act,1,0,0,c,fnispr.lt.10,5	Reset MSRs
5. ovr xv3i2240 act,1,0,0,c,fnispr.lt.10,0	Stop CND/BSTR pump set 12
6. delm pcnm monv pcnm run	Sets up containment press to mon (subtract 15 psig)
7. ramp ccnmpmin=36,1,0,c,pcnm.gt.37.0	keeps cnm press greater than 20 psig
1. frz when xn01c04	Will freeze when PK01-18 alarms

☐ Perform the following:

1. Place FCV-53 and 54 in RECIRC.
2. Go to RUN.
3. Place charcoal filter preheater to ON.
4. Verify MSRs reset.
5. Go to Freeze after s/g monitor white lights are OFF.
6. Verify containment pressure is greater than 20 psig.

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee completes reading the cue sheet.

Number: LJCNRC-12

Title: DEPRESSURIZE THE RCS USING NORMAL SPRAY

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: EOP E-3, Steam Generator Tube Rupture, Rev. 17

Alternate Path: Yes X No

Time Critical: Yes No X

Time Allotment: 15 minutes

Critical Steps: 4, 5, 6, 7, 8, 9

Job Designation: RO/SRO

Task Number: 010A2.02

Rating: 3.9/3.9

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	A steam generator tube rupture occurred in SG 12 and was isolated. An RCS cooldown was completed through Step 19 of EOP E-3.
Initiating Cue:	The Shift Foreman directs you to depressurize the RCS commencing with Step 20 of EOP E-3.
Task Standard:	The RCS depressurization is complete.

Start Time:

Step	Expected Operator Actions
1.	Obtain the correct procedure.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References EOP E-3.
Step was: Sat: _____ Unsat _____*

1.2 2. Check ruptured SG pressure stable or increasing.

2.1

Notes steam generator 12 pressure is stable at approximately 1000 psig.

2.2 Ruptured s/g 250# >intact s/g's

Step was: Sat: _____ Unsat _____*

2.3 3. Check RCS subcooling based on core exit T/Cs.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks RCS subcooling greater than 36° F using the subcooled margin monitor, YI-31, or Appendix C, Subcooled Curve.

Step was: Sat: _____ Unsat _____*

3.2 4. ** Depressurize the RCS using normal pressurizer spray.

4.1

Opens the spray valves and commences RCS depressurization.

4.2 Verifies maximum spray flow by ensuring both spray valves are fully open.

Step was: Sat: _____ Unsat _____*

4.3 5. ** Check RCS pressure.

5.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks RCS pressure less than SG 12 pressure and PZR level greater than 12%.

Note: If conditions are met, go to Step 8. If conditions are not met, go to Step 6.

Step was: Sat: _____ Unsat _____*

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

5.2	6.	** Check pressurizer level.
6.1		Checks pressurizer level greater than 74%.
	Note:	**If conditions are met, go to Step 8. If conditions are not met, go to Step 7.**
	Step was: Sat: _____ Unsat _____*	
6.2	7.	** Check RCS subcooling based on core exit T/Cs.
7.1		

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks RCS subcooling less than 20° F using the subcooled margin monitor, YI-31, or Appendix C, Subcooled Liquid Curve.

Note: If conditions are met, go to Step 8. If conditions are not met, do Steps 5, 6, and 7 until one of them is met.

Step was: Sat: _____ Unsat _____*

7.2 8. ** Close pressurizer spray valves.

8.1

Closes the spray valves.

8.2 Identifies spray valve PCV-455B is failed open.

Step was: Sat: _____ Unsat _____*

8.3 9. ** Stops RCP supplying failed spray valve.

9.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Stops RCP No. 2.
Step was: Sat: _____ Unsat _____*

9.2

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	A steam generator tube rupture occurred in SG 12 and was isolated. An RCS cooldown was completed through Step 19 of EOP E-3.
Initiating Cue:	The Shift Foreman directs you to depressurize the RCS commencing with Step 20 of EOP E-3.
Task Standard:	The RCS depressurization is complete.

☐ Initialize the simulator to snap LJCNRC12 -"init LJCNRC12"

☐ Run Drill file 5001

OR

☐ Type "init ljc033" on the expert screen command line. Click the BYPASS SWCK button on the expert screen to continue after control boards are aligned.

☐ This SNAP allows entry into EOP E-3 at Step 20 with ruptured steam generator 12 level at approximately 35% and increasing slowly. Core exit thermocouples are at approximately 489° F and the RCS is ready for depressurization.

☐ Manually insert the following:

Command	Description
1. cnv rcs2 2,1,0,0,c,rrcp455b.gt.0.9,0 #RRCP455B	Fails PCV-455B wide open when it gets to 90% open.

Perform the following:

☐ Display PPC screen "E3" on one of the CC2 PPC monitors.

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee is given the cue sheet.

☐ After RUN, display the THERMOCOUPLE MAP on SPDS Panel B.

Nuclear Power Generation
Diablo Canyon Power Plant
Job Performance Measure

Number: LJCNRC-13

Title: RESPOND TO AN ATWS

Examinee:

Evaluator:

	Print	Signature	Date

Results: Sat Unsat Total Time: minutes

Comments:

References: EOP E-0, Reactor Trip or Safety Injection, Rev. 23

EOP FR-S.1, Response to Nuclear Power Generation/ATWS, Rev. 11

Alternate Path: Yes X No

Time Critical: Yes No X

Time Allotment: 10 minutes

Critical Steps: 2, 3, 4, 6

Job Designation: RO/SRO

Task Number: 012A2.06; 001A2.13

Rating: 4.4/4.6; 4.4/4.7

AUTHOR:	DAVE BURNS	DATE:	3/27/2000
REVIEWED BY:	N/A	DATE:	N/A
	JPM COORDINATOR		
APPROVED BY:	N/A	DATE:	N/A
	TRAINING LEADER		REV. 1

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	Annunciator PK04-11, REACTOR TRIP INITIATED is in alarm, with Annunciator PK04-14, REACTOR TRIP ACTUATED not in alarm.
Initiating Cue:	As the Unit 1 CO, you are directed to perform the immediate actions.
Task Standard:	Immediate actions of EOP E-0 and EOP FR-S.1 are performed to address an ATWS and Steps 3 and 4 of EOP FR-S.1 are performed.

Start Time:

Step	Expected Operator Actions
1.1	1. Obtain the correct procedure.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References EOP E-0.

Note: Since the immediate actions of both EOP E-0 and EOP FR-S.1 are required to be memorized, it is allowable for the actions to be done <u>WITHOUT</u> either procedure as a guide. The guidance to be used in evaluating each step would be that the operator must complete the <u>INTENT</u> of each step, and not verbatim compliance. After immediate actions are complete, the procedure must be used to verify full compliance with the procedure.

****

Cue: Simulator Operator may assume inward rod motion duties once performed by student, so that student may continue with JPM.

****

Step was: Sat: _____ Unsat: _____*

1.2 2. ** Attempt to manually trip the reactor.

2.1

Attempts trip using either CC-1 or VB-2 switch.

2.2 Attempts to manually deenergize rod drive MG set buses 13D and 13E by opening breakers 52-HD-13 and 52-HE-4.

2.3 Notes 13D and 13E did not deenergize.

Step was: Sat: _____ Unsat: _____*

2.4

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. ** Transition to EOP FR-S.1 and perform immediate actions.	Goes to EOP FR-S.1.
3.1	3.2 Notes Reactor is NOT tripped.
	3.3 Manually inserts control rods.
	Step was: Sat: _____ Unsat: _____*
	3.4 4. ** Verify turbine is tripped.
	4.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Notes all 4 stop valves are OPEN.

4.2 Manually initiates turbine trip.

4.3 Checks all 4 stop valves CLOSED.

Step was: Sat: _____ Unsat: _____*

4.4 5. Check AFW pumps running.

5.1

Verifies both MD AFW pumps are running.

5.2 Verifies TD AFW pump RUNNING, if necessary.

Step was: Sat: _____ Unsat: _____*

5.3

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

6. ** Initiate emergency boration of the RCS.	Opens 8805A and/or B.
6.1	6.2 CLOSES LCV-112B and/or C.
	6.3 Verifies at least 105 gpm charging flow.
	6.4 Checks pressurizer pressure (not part of critical step).
	6.5 Determines pressurizer pressure is <2335 psig (not part of critical step).
	Step was: Sat: _____ Unsat: _____*
	6.6

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Annunciator PK04-11, REACTOR TRIP INITIATED is in alarm, with Annunciator PK04-14, REACTOR TRIP ACTUATED not in alarm.

Initiating Cue: As the Unit 1 CO, you are directed to perform the immediate actions.

Task Standard: Immediate actions of EOP E-0 and EOP FR-S.1 are performed to address an ATWS and Steps 3 and 4 of EOP FR-S.1 are performed.

☐

Initialize the simulator to snap LJCNRC13 - "init LJCNRC13"

☐ Enter drill file 6213 for overrides.

OR

☐ Initialize the simulator to the IC-1 (100%, BOL).

☐ Enter drill file 1041, or manually insert the following:

Command	Description
1. mal pp15a act,3,0,0,d,0	Reactor Trip Breaker Train A fails to trip
2. mal pp15b act,3,0,0,d,0	Reactor Trip Breaker Train B fails to trip
3. ovr xv5i245o act,0,0,0,d,0	13D feeder breaker fails to deenergize
4. ovr xv5i239o act,0,0,0,d,0	13E feeder breaker fails to deenergize
5. mal seil act,0.4,10,0,d,0	Seismic Trip
6. run 15	runs simulator for 15 seconds

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee is given the cue sheet.

Nuclear Power Generation
Diablo Canyon Power Plant
Job Performance Measure

Number: LJCNRC-14

Title: RESPOND TO A LOSS OF CCW TO THE LETDOWN HEAT EXCHANGER

Examinee:

Evaluator:

Print Signature Date

Results: Sat Unsat Total Time: minutes

Comments:

References: OP AP-11, Malfunction of Component Cooling Water System, Rev 16; OP B-1A:IV, CVCS - Excess Letdown Place in Service and Remove from Service, Rev. 10A.

Alternate Path: Yes X No

Time Critical: Yes No X

Time Allotment: 20 minutes

Critical Steps: 3, 4, 7, 9, 12

Job Designation: RO/SRO

Task Number: 008A4.01

AUTHOR:	DAVE BURNS	DATE:	3/27/2000
REVIEWED BY:	N/A	DATE:	N/A
	JPM COORDINATOR		
APPROVED BY:	N/A	DATE:	N/A
	TRAINING LEADER		REV. 1

Rating: 3.3/3.1

Directions:	**No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.
Required Materials:	None
Initial Conditions:	Unit 1 is operating at 100% power.
Initiating Cue:	TCV-130 failed closed and the Shift Foreman directs you to respond to a loss of CCW flow to the letdown HX.
Task Standard:	A flow balance established that causes pressurizer pressure and level to be in or trending toward their program bands.

Start Time:

Step	Expected Operator Actions
	1. Obtain the correct procedure.
1.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

References OP AP-11, section D (operator may also reference AR PK04-21 which refers the operator to OP AP-11).

Step was: Sat: _____ Unsat _____*

1.2 2. Verify TCV-130 is controlling letdown temperature.

2.1 Determines TCV-130 is not controlling in auto and takes manual control.

2.2 Determines letdown temperature cannot be maintained in manual control.

Step was: Sat: _____ Unsat _____*

2.3 3. ** Isolate letdown.

3.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Closes CVCS 8149A, 8149B, and 8149C.

3.2 Closes LCV-459 and LCV-460.

Step was: Sat: _____ Unsat _____*

3.3 4. ** Isolate normal charging.

4.1 Reduces charging flow to minimum, while maintaining seal injection flow of 8 to 13 gpm to each RCP with HCV-142.

4.2 Isolates charging flow path by closing CVCS-8146.

Step was: Sat: _____ Unsat _____*

4.3

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

5. Obtain the correct procedure.	References OP B-1A:IV.
5.1	**Step was: Sat: _____ Unsat _____***
5.2	6. Check excess letdown divert valve 8143 in the NORMAL position.
	6.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks the excess letdown divert valve in the NORMAL position.

****

Cue: NORMAL is the desired position based on current plant conditions.

****

Step was: Sat: _____ Unsat _____*

6.2 7. ** Open CCW valve FCV-361.

7.1

Opens FCV-361.

Step was: Sat: _____ Unsat _____*

7.2 8. Check excess letdown pressure control valve HCV-123 closed.

8.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks closed HCV-123.	Opens 8166 and 8167.
Step was: Sat: _____ Unsat _____*	**Step was: Sat: _____ Unsat _____***
8.2 9. ** Open excess letdown isolation valves 8166 and 8167.	9.2
9.1	

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

10. Slowly open HCV-123 to establish excess letdown flow.	Reads CAUTION prior to step 6.1.5. (not part of critical step)
10.1	10.2 Slowly increases demand on HCV-123.
	10.3 Observes increase in excess letdown pressure and temperature. (not part of critical step)
	10.4 Monitors excess letdown temperature and pressure, not going above 190 degrees on TI-122.
	10.5 Observes NOTE associated with this step. (not part of critical step)
	Step was: Sat: _____ Unsat _____*
	10.6 11. Monitor for a leak at the excess letdown heat exchanger.
	11.1

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Checks containment structure sump level recorders for increased leakage into the sumps.

Step was: Sat: _____ Unsat _____*

11.2 12. ** Adjust charging flow to maintain pressurizer level.

12.1

Adjusts charging flow to restore pressurizer level toward programmed value.

Step was: Sat: _____ Unsat _____*

12.2

Stop Time:

Total Time: (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is operating at 100% power.

Initiating Cue: TCV-130 failed closed and the Shift Foreman directs you to respond to a loss of CCW flow to the letdown HX.

Task Standard: A flow balance established that causes pressurizer pressure and level to be in or trending toward their program bands.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

☐ Initialize the simulator to snap LJCNRC14 - "init LJCNRC14"

OR

☐ Initialize the simulator to IC-1 (100%, BOL).

☐ Enter drill file 1126 or manually insert the following:

Command	Description
1. CNV CVC7 2,0,0,0,d,0	TCV-130 fails closed
2. RUN 30	Run simulator for 30 seconds to allow alarms to actuate

☐ Inform the examiner that the simulator setup is complete.

☐ Go to RUN when the examinee is given the cue sheet.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.