Emergency Procedure 2-0120042 Rev 0 LOCA

- VD (INF) 2004

FLORIDA POWER & LIGHT COMPANY ST. LUCIE UNIT 2 EMERGENCY PROCEDURE NUMBER 2-0120042 REVISION 0 October 29, 1981

LOSS OF COOLANT ACCIDENT (LOCA)

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FLORIDA POWER & LIGHT COMPANY ST. LUCIE PLANT UNIT 2 EMERGENCY PROCEDURE NUMBER 2-0120042 (LOCA) REVISION 0

1.0 SCOPE

This procedure provides instructions to the operator in the event of a small or large break loss of coolant condition.

2.0 SYMPTOMS:

2.1 Decreasing przr press

2.1 <u>Indications</u> PI-1102 A, PI-1102 B, PI-1102 C, PI-1102 D PR-1100

2.1 Alarms H-9, H-10, H-1, H-2, H-3, H-14

NOTE:

Pressurization level may not always be a true indication of RCS fluid inventory. Pressurizer steam space ruptures, void formation elsewhere in the RCS, reference leg flashing and/or failure may cause indications which are contrary to the true RCS fluid inventory condition.

2.2 Decreasing przr level

2.3 REACTOR TRIP/TURBINE TRIP

- 2.2 <u>Indications</u> Leakage greater than charging pump capacity. LI-1110X, LI-1110Y, LIC-1110X, LIC-1110Y, LR-1110X, LR-1110
- 2.2 <u>Alarms</u> H-17, H-18, H-25, H-26, H-29, H-30
- 2.3 <u>Indications</u> CEA's inserted (ADS) Core Mimic RPS-Ch.1, RPS-Ch.4, RPS-Ch.7, RPS-Ch.9, RPS-Reactor Trip Breakers OPEN
- 2.3 <u>Alarms</u> L-3, L-9, L-11, L-17, L-36, L-44, L-5, L-13, D-8 L-10, L-18

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2.0	SYMP	TOMS: (Cont.)		× •
	2.4	SIAS/CIS Actuation	2.4	<u>Indications</u> Przr press < 1600 PSIA Equipment starts/isolates per Tables 1 and Tables II
	7	· · · · · · · · · · · · · · · · · · ·	2.4	<u>Alarms</u> R-6, R-16, R-26, R-3, P-3, P-13, P-23.
	2.5	CSAS Signal	2.5	<u>Indications</u> (Later)
		• • • •	, 2 <u>.</u> 5	<u>Alarms</u> (Later)
	2.6	Increasing Containment Pressure, Temperature and Humidity	2.6	<u>Indications</u> PIS-07-2A, PIS-07-2B, PIS-07-2C, PIS-07-2D PR-07-4B, PR-07-5B, TR-07-3B, TR-07-5B, TI-07-3A, TI-07-5A, PI-07-4A, PI-07-5A
			2.6	<u>Alarms</u> P-13,P-23
	2.7	Increasing Reactor Cavity Sump Level	2.7	Indications LIS-07-6,FR-07-3
		• •	2.7	Alarms N-21,H-29
	2.8	Hi containment radiation	, 2. 8	<u>Indications</u> Later
		•	2.8	Alarms
	2.9	Quench tank high level, temperature, press	2.9	<u>Indications</u> LIA-1116, TIA-1116, PIA-1116
			2.9	<u>Alarms</u> H-16, H-24, H-32
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2.0	SYMPTOMS:	(Cont.)	

2.10 Decreasing VCT level

- 2.10 Indications LIC-2226
- 2.10 <u>Alarms</u> M-3, M-11

- 2.11 Unbalanced charging and letdown flow
- 2.12 Pressurizer safety valves open
- 2.13 RCS subcooling margin decrease
- 2.14 Reactor Coolant Pumps motor pumps decreasing and/or erratic RCP pressure differential

- 2.11 <u>Indications</u> FIA-2202, HIC-1110 FIA-2212
- 2.11 <u>Alarms</u> <u>M-5, M-13, M-15</u>
- 2.12 <u>Indications</u> (Later)
- 2.12 <u>Alarms</u> (Later)
- 2.13 Indications (Later)
- 2.13 <u>Alarms</u> (Later)
- 2.14 <u>Indications</u> (Later)

2.14 <u>Alarms</u> (Later)

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3.0	AUTOMATIC ACTIONS:		
	3.1	Reactor Trip	
	3.2	Turbine Trip	
	3.3	CIAS ,	
	3.4	SIAS	
	3.5	CSAS	

3.6 RAS

3.1 TM/LP or Low Przr Pressure
3.2 Reactor trips turbine
3.3 SIAS initiates
3.4 RCS press ≤ 1600 PSIA
3.5 High containment pressure
3.6 RWT level 3 feet measured

4.0 IMMEDIATE OPERATOR ACTION

4.1 Ensure Immediate Operator Actions for a reactor trip have

> 4.1.1 Any auto functions required have operated properly

4.2 If SIAS was caused by low RCS pressure

a) Verify CEA's inserted >5 sec. 4.2 4.2'

b) Stop the operating RCP's

IMPORTANT: After RCP's are stopped, immediately refer to EP 2-0120043 Inadequate Core Cooling

NOTE: Observe all available indications to determine conditions within RCS: SMM display, RCS-T_h, RCS-T_c, incore thermocouple, RCS press. Determine if RCS is subcooled or saturated. Figure 2 will assist in this determination.

- 4.3 Check the ESFAS Bypass Status board
- 4.3 Reason: To ensure availability of equipment for auto functions.
- 4.4 Ensure SIAS, CIS are functioning properly
- 4.4 Refer to Table I Table II

CAUTION Overfeeding the S/G's may cause excessive cooldown Do not exceed 75°/HR cooldown rate

4.5 Establish and maintain S/G levels @ 65%

10 PSIG, initiate CSAS.

4.6 If containment pressure approaches

- 4.5 Use main or AFW
- 4.6 Ensure CSAS components function. Refer to Table III
- 4.7 Classify the event as conditions 4.7 Implement the emergency plan dictate, according to the as necessary emergency plan

NOTE: When establishing puxiliary Far Find to the Steam Generation, USC Steph generator levels as well as hender clow rate to ensure even steam generation is receiving Administry feeducing



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TABLE I

SAFETY INJECTION ACTUATION SIGNAL (SIAS)

· · · · · ·	Condition	Check
RTGB 206, Left to Right Two (2) CCW PPS 2A, 2B, or 2C.	ON	
Two (2) CCW to Fuel Pool HX Isolation Valve MV-14-17, MV-14-18	s Closed	
Four (4) CCW HDR Non-essential Isolation Va HCV-14-8A, HCV-14-8B, HCV-14-9, HVC-14-10	lves Closed	
Two (2) CCW Outlet from shutdown HX 2A, 2B, Valves, HCV-14-3A, HCV-14-3B	Open	
Two (2) LPSI PPS	0n	
Two (2) HPSI PPS	<u> </u>	
Four (4) LPSI Disch to Loops HCV-3615, HCV-3625, HCV-3635, HCV-3645	Open'	
Eight (8) HPSI Disch to Loops HCV-3617, HCV-3627, HCV-3637, HCV-3647 - Header A HCV-3616, HCV-3626, HCV-3636,		
HCV-3646 - Header B	Open	<u></u>
Two (2) HPSI PP Fill to SIT's V3572, V3571	Closed	- ,
Two (2) SI Test to RWT I-SE-03-2A, I-SE-03-2B	Closed	* ,
Four (4) SI Tank Isolation Valves V3614, V3624, V3634, V3644	Open	
Four (4) SI Tank Fill/Drain Valves I-SE-03-1A, I-SE-03-1B, I-SE-03-1C, I-SE-03-1D	Closed	
Four (4) SI Check Leakage Test HCV-3618, HCV-3628, HCV-3638, HCV-3648	<u>Closed</u> .	
Four (4) FWP Discharge Isolation Valves HCV-09-1A, HCV-09-2A, HCV-09-1B, HCV-09-2B	Closed	<u> </u>
Four (4) CCW To/From RCP's HCV-14-1, HCV-14-2, HCV-14-7, HCV-14-6	Closed	





TABLE I (Cont.)

SAFETY INJECTION ACTUATION SIGNAL

•	CONDITION	<u>CHECK</u>
TWO (2) Containment Sump Isolation LCV-07-11A, LCV-07-11B	Closed	
RTGB 205, Left to Right One (1) BA Makeup Valve V2512	Closed	
Two (2) BA Gravity Feed V2509, V2508	<u> 0pen </u>	
One (1) VCT Discharge V2501	Closed	
Two (2) Letdown Isolation V2516, V2515 RTG3 202	<u>Closed</u>	
Two (2) Intake Cool Wtr PP's 2A, 2B	0n	
Three (3) Intake Cool Wtr Isolation Valves MV-21-3, MV-21-4, MV-21-2	Closed	
<u>RTGB 201</u> Two (2) Diesel Gen 2A, 2B	On	, ,
HVAV Panel Left to Right Four (4) RAB Main Supply and ECCS Exhaust Fans 2-HVS-4A, 2-HVE-9A, 2-HVS-4B, 2-HVE-9B	0n	
Four (4) Containment Fan Cooler 2-HVS-1A, 2-HVS-1B, 2-HVS-1C, 2-HVS-1D	0n	
Eight (8) ECCS Isolation Dampers D5A, D6A, D9A, D12A, D5B, D6B, D9B, D12B	Closed	<u> </u>
Two (2) Rx Support & Cavity Cool. Fans 2-HVS-2A, 2-HVS-2B, 2-HVE-3A, 2-HVE-3B	Off .	·
NOTE: Any spare equipment that is run controlling this incident shoul	ning, and not d be <u>STOPPED</u> .	needed for

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TABLE II

CONTAINMENT ISOLATION ACTUATION SIGNAL (CIAS)

	· •	CONDITION	CHECK
	RTGB 206, Left to Right TWO (2) SI Tank, to RWT I-SE-03-2A, I-SE-03-2B	Closed	
•	Five (5) SI Tank Sample Isolation Valves FCV-03-1A, FCV-03-1B, FCV-03-1C, FCV-03-1D & FCV-03-1E	Closed	
	Four (4) S/G Blowdown Isolation Valves FCV-23-3, FCV-23-5, FCV-23-4, & FCV-23-6 Sample FCV-23-7, FCV-23-9.	<u>Closed</u>	
,	Two (2) Contain Sump Isolation Valves LCV-07-11A, LCV-07-11B	Closed	
•	Six (6) RCS & PRZR Sample Isolation Valves V5200, V5201, V5202, V5203, V5204, V5205	Closed	
	One (1) Primary Water Isolation HCV-15-1	Closed	·
	One (1) Instrument Air Isolation HCV-18-1	Closed	
	One (1) N ² Supply Isolation V6741	<u>Closed</u>	
4	Two (2) Waste Gas Isolation V6750, V6718	<u>Closed</u>	
	Two (2) RCP Bleed-off Isolation V2505, V2524	Closed	
	Two (2) RDT Isolation V6341, V6342	Closed	·
•	RTGB 205 Three (3) Letdown Isolation Valves V2516, V2522, V2515	Closed	
	RTGB 201 Two (2) Diesel Gen. 2A, 2B	0n	
	HVAC Panel, Left to Right Two (2) Shield Bldg. Vent. & Control Room Filter Fans 2-HVS-13A, 2-HVE-6A	On	,
	Four (4) Control Room. Isolation Valves FCV-25-24, FCV-25-17, FCV-25-18, FCV-25-16	Closed	,
	Two (2) Shield Bldg. Vent & Control Room Filter Fans 2-HVS-13B, 2HVE 6B	On	
	Four (4) Control Room. Isolation Valves FCV-25-25, FCV-25-14, FCV-25-15, FCV-25-19	Closed	

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TABLE II (CONT.)

CONTAINMENT ISOLATION · ACTUATION SIGNAL (CIAS)

	CONDITION	CHECK
Two (2) Containment Purge Exhaust Fan 2-HVE-8A, 2-HVE-8B	Off	<u> </u>
Six (6) Containment Purge Isolation Valves FCV-25-1, FCV-25-3, FCV-25-5, FCV-25-6, FCV-25-4, FCV-25-2	Closed	
Three (3) Continuous Containment H ₂ Purge Isolation FCV-25-20, FCV-25-26, FCV-25-21	<u>Closed</u>	
Two (2) Shield Bldg. Vent. Isolation Valves FCV-25-32, FCV-25-33	<u>⊳ Open</u>	
Two (2) Fuel Bldg. Emerg. Vent. Isolation Valves FCV-25-30, FCV-25-31	<u>Closed</u>	•
Six (6) Containment Sample Isolation Valves FCV-26-2, FCV-26-4, FCV-26-6, FCV-26-1, FCV-26-3, FCV-26-5 (RTGB 206)	Closed	

TABLE III

CONTAINMENT SPRAY ACTUATION SIGNAL

	CONDITION	CHECK
Two (2) Containment Spray Pumps 2A, 2B	0n	<u></u>
Two (2) Containment Spray HDR Isolation Val FCV-07-1A, FCV-07-1B	ves Open	
Two (2) Iodine Removal System Pumps 2A, 2B	0n	
Two (2) Iodine Removal System Isolation Val I-SE-07-3A, I-SE-07-3B	ves Open	
NOTE: Verify Flow	•	

on FI-07-1A, and FI-07-1B

5.1 Refer to Reactor Trip/Turbine Trip, 2-0030130 and ensure that all subsequent actions (section 5) have been or are being performed. 5.2 When containment pressure decreases to < 10 psig, Stop 1A and 1B CS. pps.

5.0 SUBSEQUENT ACTIONS

Close FCV-07-1A, FCV-07-1B Stop Iodine Removal PPs 2A, 2B Close Iodine Removal System Isolation. valves I-SE-07-3A, 3B

- 5.3 Within one (1) hour, but without exception no later than one (1) hour, <u>stop</u> RCS/BAMT boration via the charging pumps.
- 5.4 Conduct area radiation surveys as soon as possible to determine extent of damage.
- 5.5 Implement the Emergency Plan as necessary in accordance with EP 3100021E.
- 5.6 Commence RCS cooldown as soon as possible and in any case within one (1) hour.

<u>CAUTION</u>: Ensure RCS is maintained in a subcooled condition. After any SIAS, operate the SIS until RCS hot and cold leg temperatures are at least 50°F below saturation temperature for the RCS pressure.

- 5.7 Ensure proper operation of the safety injection system by checking flow rates and SIT levels.
- 5.8. If steam dump to condenser is available close the atmospheric steam dump and begin dumping steam to the condenser.
- 5.9 If offsite power is lost, steam dump to the atmosphere must be used for cooldown.

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CAUTION: Do not exceed 75° F/Hour cooldown rate.

- 5.10 Continue auxiliary feedwater flow to the steam generators during cooldown.
- 5.11 Reduce steam generator pressure to less than 985 psig. (Safety setting) Refer to OP 2-0030127, Reactor Plant Cooldown.

CHECK

5.0 SUBSEQUENT ACTIONS: (Cont.)

- 5.12 Immediately prior to RAS ensure power is available to V3659, V3660, V3495, V3496.
- 5.13 Ensure RAS occurs when the RWT level decreases to 3 ft indicated -(4 ft. from bottom of the tank). Table IV page 16 may be used as a check list.
- 5.14 If all HPSI pumps and charging pumps are operating and the HPSI pumps are delivering less than 75 GPM per pump, stop the charging pumps one at a time, then HPSI pumps one at a time until only one HPSI pump remains operating.
- 5.15 Check RAB radiation levels and sump levels after RAS to detect SIS leakage. Even if leaks are detected, at least one HPSI pump must remain in operation to provide flow to the core.
- 5.16 Establish radiation areas and warnings where necessary
- 5.17 Without exception and within ten (10) hours of the incident occurance, initiate hot leg injection. This will be in conjunction with the existing cold leg injection.
- 5.18 If the pressure and inventory control with the SIS cannot be established after eight hours and RCS press is less than 300 PSIG, continue hot and cold leg injection.

CHECK

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TABLE IV

RECIRCULATION ACTUATION SIGNAL

CONDITION CHECK

Two (2) LPSI PPS 2A, 2B

Two (2) SI PP Recirc. to RWT Isolation Valves V3659, V3660 ______Closed____

Two (2) Minimum Flow Isolation Valves V-3495, V3496 _____Closed

Two (2) Containment Sump Outlet Valves MV-07-2A, MV-07-2B Open.

Two (2) RWT Outlet Valves MV-07-1A, MV-07-1B Closed



5.0 SUBSEQUENT ACTIONS: (Cont.)

- 5.19 If pressure and inventory control with the SIS are established after eight (8) hours and RCS pressure is greater than 300 PSIG, conduct one of the following activities, (in order of decreasing preference.) This condition indicates the system is refilled and subcooling has occurred.
 - 5.19.1 1.) Verify subcooling by checking the saturation pressure for the existing temperature.

2.)Realign the SIS for cold leg injection.
3.)Continue to maintain subcooling and reduce RCS pressure to <268 PSIA for shutdown cooling by reducing the flow delivered by the high pressure injection and charging pumps.
4.)While reducing pressure and after shutdown cooling is initiated, maintain RCS pressure with the charging pumps and /or the HPSI pumps to maintain at least 50^{°°} subcooling.

OR

5.19.2 Continue to remove decay heat using auxiliary feedwater and steam dumps if adequate condensate is available and (5.19.1) cannot be implemented.

OR

- 5.19.3 If 5.19.1 or 5.19.2 above, cannot be implemented, Open przr power operated relief valves and align the safety injection system for cold leg injection.
 - To open the PORV's, pull two RPS przr high pressure trip unit bistables.
- 5.20 Place both hydrogen recombiners in service. (See Appendix "A")
- 5.21 If containment hydrogen concentration cannot be maintained below 3.5% as indicated on the containment hydrogen sample system, then place the containment hydrogen purge system in operation. (See Appendix "B")

6.0 PURPOSE AND DISCUSSION:

This procedure provides instructions to be followed in the event that leakage from the Reactor Coolant System exceeds the capacity of the operable charging pumps. When conditions in the Reactor Coolant System degrade to the point that a Limiting Safety System Setting is approached the Reactor Protective System will initiate a reactor trip, making the reactor subcritical. This will stop the production of power in the core. Cooling of the core, however, must continue to remove the considerable decay heat that remains. The Safety Injection System automatically provides a flow of subcooled water to the core for decay heat removal. Failure to keep the core covered will result in overheating of the fuel, failure of the cladding, and a release of gross amounts of fission products to the containment atmosphere.

The spectrum of breaks which would cause a LOCA is from approximately at .2 inch diameter break up to a double-ended hot leg rupture. For an example: Analysis show that the flow from an unrestricted .3 inch diameter break is approximately 180 GFM at 2250 PSIA. A major concern for these small breaks is that the flow through the break may not be sufficient for decay heat removal. In those circumstances it is imperative that a secondary heat sink be available. This in turn dictates the use of the Auxiliary Feedwater System as the main feed-water system is disabled due to an SIAS.

Operator actions should be directed toward ensuring proper operation of the Safety Injection and Containment Isolation Systems, ensuring all automatic functions have initiated properly, and taking action to protect plant personnel. Long term action is directed toward placing the plant in a cold shutdown condition. For small breaks where the ECCS will maintain RCS volume and pressure, operator action must be directed toward establishing and maintaining subcooled conditions in the RCS during the cooldown to prevent void formation. Fig. 4.4 is a quick reference for operators actions. .

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6.0 <u>PURPOSE AND DISCUSSION</u>: (Cont.)

Some instruments (valve position, temperature, pressure, level indications, etc.) specified for use in this procedure have not been designed for long term post LOCA conditions inside containment. Therefore, the operator should be especially alert that the potential exists for erroneous indication after >15 minutes have elapsed following a LOCA event.

If there is a high radioactivity level in the reactor coolant system, circulation of this fluid in SDC may result in high area realoactivity readings in the RAB. The activity level of the RCS should be determined prior to initiating SDC flow.

It may be necessary to fill the przr solid to regain pressure control and to achieve 50^0 F subcooling. If this is the case, HPSI discharge values will have to be carefully throttled during the cooldown to reduce system pressure.

Ensure HPSI flow to the core continues after RAS. Do not allow the HPSI pumps to operate "dead-headed". HPSI shutoff head (no flow) 1250 PSIG.

Do not exceed 75^0 F/hour cooldown rate.

If conditions permit, attempt to locate and isolate the source of the leak. Possible leak locations include but are not limited to the PORV's, the letdown line and the sample lines.

Przr level may not always be a true indicator of RCS fluid inventory. Przr. steam space ruptures, reference leg failures, and reference leg flashing may cause indications which are contrary to true conditions.

All available indications should be used to aid in diagnosing the event since the accident may cause irregularities in a particular instrument reading. Critical parameters must be verified when one or more confirmatory indications are available. With the Subcooling Margin Monitor (SMM) operating normally, use the nomograph on RTGB 104 in conjunction with the SMM to eliminate dependence on a single instrument. With the SMM inoperable, refer to the nomograph utilizing control room indicators such as THOT, przr pressure, and incore thermocouples to determine the T_h margin to saturation. Subcooling margin can also be determined by subtracting hot leg temperature from przr temperature (TE-1101).

Take appropriate action to keep core covered or reflood if it becomes partially uncovered. Maintain or re-establish a heat removal path. Regain RCS pressure and level control. Follow long term shut down procedures in order to assure that boron precipitation does not occur.

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7.0 <u>REFERENCES</u>:

7.1 St. Lucie Unit #1 Emergency Procedures Unit #2 FSAR SECT. 1.0, 6.0, 9.0.

7.7C. E. generic LOCA guidelines 7.7 Songs OI S023-3-5-6

7.4 Lund Consulting report to C. E. (Feb. 6, 1981)

7.5 Draft of NUREG - 0799

8.0 <u>RECORDS REQUIRED</u>:

C | Normal Log Entries

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2. Transient indicators and recorder charts.

9.0 <u>APPROVAL</u>:

Reviewed by Plant Nuclea	ar Safety Committee	19
Approved by	/Plant Manager	19
Porticion Porticiad by	Facility Review Group	19
Approved by	/Plant Manager	19

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APPENDIX "A" PLACING H₂ RECOMBINERS IN SERVICE

I. Place recombiners in service as follows:

- 1A 1B
- Ensure breakers #41262 in 480V MCC 2A5 (2A) and #42103 and in 480V MCC 2B6 (2B) are closed.
- 2. Set the power adjust potentiometer at zero (000).
- 3. Check that power is available to the power supply panel by observing the "power available" white light on the control panel is illuminated.
- 4. Set the Power Out Switch on the control panel to the <u>"ON"</u> position. The red light on the switch will illuminate.
- 5. Gradually turn the Power Adjust potentiometer to 70 KW as indicated on the Power Out Wattmeter.

CAUTION: There is a lag in the meter reading, so turn the potentiometer knob slowly. Do not exceed 75 KW.

6. Periodically check the temperature of the three thermocouples using the temperature channel selector switch. And, when the temperature reaches 1250°F, adjust the power adjust potentiometer to maintain temperature between 1250°F and 1400°F.

CAUTION: Do not let the temperature exceed 1400°F as indicated by the thermocouple readout.

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APPENDIX "B" PLACING CONTAINMENT H₂ PURGE IN SERVICE

- II. Place containment H₂ purge in service as follows:
- _____ 1. Verify closed V-2538 filter bypass valves.
- 2. Unlock and open V-25-20 and 21 suction isolation valves.
- 3. Open V-25-35 hydrogen purge discharge to vent stack.
- 4. Start 2HVE 7A or 7B.
- 5. Unlock and open V-25-25 and V-25-26 makeup air for HZ purge.
- 6. Modulate FCV-25-9 open as needed to maintain charcoal absorber temperature below alarm point.

CAUTION: Ensure that either 2HVE 10A or 2HVE 10B is running.

_____ 7.

• Periodically check the stack radiation monitoring system for increasing gaseous and particulate levels.

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