

Unit #2

DOCUMENT REVISION DISTRIBUTION SHEET - OFF NORMAL & EMERGENCY OPER. PROCEDURE

DOCUMENT TITLE AUXILIARY BUILDING AND CONTROL ROOM VENTILATION  
OFF-NORMAL OPERATION

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\*Note: New distribution per instructions. Effective 9-12-79.

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FLORIDA POWER & LIGHT COMPANY  
ST. LUCIE PLANT UNIT NO. 2  
OFF-NORMAL OPERATING PROCEDURE NO. 2-1900030  
REVISION 1

1. TITLE: AUXILIARY BUILDING AND CONTROL ROOM VENTILATION OFF-NORMAL OPERATION
2. PREPARED BY: Dennis D. Dryden 10 June 1981
3. SUBCOMMITTEE REVIEW BY: D. A. Sager for FP&L PR 22 Oct. 1981
4. REVIEWED BY FRG ON: 25 Nov. 1981
5. APPROVED BY: \_\_\_\_\_ Plant Manager \_\_\_\_\_ 1981
6. REVISION REVIEWED BY FRG ON: FEB 9 1981 2
7. APPROVED BY: *C. M. Willey* Plant Manager 4-28- 1981 2

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FLORIDA POWER & LIGHT COMPANY  
ST. LUCIE PLANT UNIT #2  
OFF-NORMAL OPERATING PROCEDURE NO. 2-1900030  
REVISION 1

R1

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1.0 TITLE:

AUXILIARY BUILDING AND CONTROL ROOM VENTILATION OFF-NORMAL OPERATION

2.0 APPROVAL:

Reviewed by Facility Review Group \_\_\_\_\_ Nov. 25, 1981

Approved by J. H. Barrow \_\_\_\_\_ Plant Manager Dec. 4, 1981

Revision 1 Reviewed by FRG \_\_\_\_\_ FEB 9, 1982Approved by C. M. Wething \_\_\_\_\_ Plant Manager 4-28-, 19823.0 PURPOSE:

3.1 This procedure provides instructions to be followed when Auxiliary Building and Control Room Ventilation capacity is lost or restricted or when one of the following off-normal conditions exist:

- a) Containment Isolation
- b) Safety Injection
- c) Control Room Radiation Monitor high alarm

3.2 Discussion - The Auxiliary Building and Control Room Ventilation Systems are designed to perform or provide the following:

- a) Provide outside filtered air.
- b) Provide cooling air to equipment and personnel in certain areas.
- c) To filter exhaust air for certain radioactive nuclides.
- d) To provide a self-contained atmosphere in the Control Room when an off-normal condition of Containment Isolation or a Control Room Radiation Monitor high alarm exists.
- e) To provide an additional filtered exhaust system from the ECCS and Penetration Rooms when a Safety Injection condition exists.

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AUXILIARY BUILDING AND CONTROL ROOM VENTILATION OFF NORMAL OPERATION

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4.0 SYMPTOMS:

- 4.1 Safety Injection Actuation Signal alarm (R-6)
- 4.2 Containment Isolation Actuation Signal alarm (P-3)
- 4.3 Control room air conditioning, 2HVA-3A, 2HVA-3B, or 2HVA-3C motor overload, CS isolated (V-12, W-7, W-8)
- 4.4 Reactor Aux Bldg. Emerg. Exhaust 2HVE-9A or 2HVE-9B Low Flow, SIAS override, motor overload (W-10, W-11)
- 4.5 Reactor Aux Bldg. Supply 2HVS-4A or 2HVS-4B Low Flow, SIAS override, motor overload (W-16, W-17)
- 4.6 Reactor Aux Bldg. Main Exhaust 2HVE-10A or 2HVE-10B Low Flow, motor overload, alarm trip (W-4, W-5)
- 4.7 RAB Main Exhaust HEPA Filter Hi D/P (W-23)
- 4.8 Emergency safeguard pump room 2A/2B Hi Temp (W-21)
- 4.9 Electrical equipment room A or B Hi Temperature (X-12, X-24)
- 4.10 RAB 2HVE-9A and B HEPA Filter Hi D/P (W-9)
- 4.11 Control Room HEPA Filter Hi D/P (W-2)
- 4.12 Control Room Radiation Monitor Hi Alarm (V-4, V-10)

5.0 INSTRUCTIONS:

- 5.1 Safety Injection Actuation Signal alarm. (R-6)

- 5.1.1 Immediate automatic actions.

- 1. 2HVS-4A and/or 2HVS-4B starts.
  - 2. 2HVE-9A and 2HVE-9B start.
  - 3. Dampers D-1, 2, 3, 4, 13, 14, 15, 16, open.
  - 4. Dampers D-5A & B, 6A & B, 8, 9A & B, 11, 12A & B close.

- 5.1.2 Immediate operator actions.

- 1. Verify immediate automatic actions have occurred.

- 5.1.3 Subsequent actions.

- 1. Stop either 2HVE-9A or 2HVE-9B.
  - 2. Stop either 2HVS-4A or 2HVS-4B.

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5.0 INSTRUCTIONS: (Cont.)

5.2 Containment Isolation Actuation Signal alarm. (P-3)

5.2.1 Immediate automatic action.

1. 2HVE-13A and 2HVE-13B start.
2. FCV-25-14, 15, 16, 17, 18, 19, 24, and 25 close.
3. Dampers D-17, 18, and 19 open..

5.2.2 Immediate operator actions.

1. Verify immediate automatic actions have occurred.
2. Stop 2HVE-13A and 2HVE-33.

5.2.3 Subsequent actions.

1. Stop either 2HVE-13A or 2HVE-13B.
2. Slowly open either FCV-25-15 & 17 or FCV-25-14 & 16 to let outside makeup air enter the Control Room. Pressurize the Control Room to a minimum pressure of 0.125 inches water but do not exceed a maximum of 0.140 inches water.

NOTE: Testing has indicated that less than 450 cfm makeup is required to maintain a pressure of 0.140 inches water

5.3 Control Room Air Conditioning Failure motor overload (V-12, W-7, W-8)

5.3.1 Immediate automatic action: None

5.3.2 Immediate operator actions.

1. Start the idle unit.

5.4 RAB Supply 2HVS-4A & 4B Low Flow, motor overload (W-16, W-17)

5.4.1 Immediate automatic action: None

5.4.2 Immediate operator actions.

1. Start the idle unit.
2. Stop running unit.

5.5 RAB Main Exhaust 2HVE-10A & B Low Flow, motor overload, alarm trip (W-4, W-5)

5.5.1 Immediate automatic action: None

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5.0 INSTRUCTIONS: (Cont.)

5.5 (Cont.)

5.5.2 Immediate operator actions.

1. Start the idle unit.
2. Stop running unit.

5.6 Engineering Safeguard Pump Room 2A/2B Hi Temperature (W-21)

5.6.1 Immediate automatic action: None

5.6.2 Immediate operator action.

1. Start idle RAB Supply 2HVS-4A or 2HVS-4B.
2. Check the area to verify conditions.
3. Check Area Radiation Monitoring system for alarms.
4. Check 2HVE-10A or 2HVE-10B running.

5.7 Electrical Equipment Room hi temperature (X-12, X-24)

5.7.1 Immediate automatic action: None

5.7.2 Immediate operator action.

1. Start idle supply 2HVS-5A or 2HVS-5B.
2. Check the area to verify conditions.
3. Check fire alarm panel.
4. Check exhaust fans running.

5.8 HEPA Filters Hi D/P (W-2, W-9, W-23)

5.8.1 Immediate automatic action: None

5.8.2 Immediate operator action.

1. Verify alarm by local D/P gages.

5.8.3 Subsequent actions.

1. Notify Health Physics and Maintenance Department.
2. Reduce flow while changing filters.

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5.0 INSTRUCTIONS: (Cont.)

5.9 Control Room Radiation Monitor H1 Alarm (V-4, V-10)

5.9.1 Immediate automatic action: None

5.9.2 Immediate operator action.

1. Verify the alarm.
2. If alarm is confirmed, complete the following:
  - a) Close FCV-25, 14, 15, 16, 17, 18, 19, 24, and 25.
  - b) Start 2HVE-13A and 2HVE-13B. Check dampers D-17, 18, and 19 open.
  - c) Stop 2HVE-14 and 2HVE-33.

5.9.3 Subsequent actions.

1. Stop either 2HVE-13A or 2HVE-13B.
2. Slowly open either FCV-25-15 & 17 or FCV-25-14 & 16 to let outside makeup air enter Control Room. Pressurize Control Room to a minimum pressure of 0.125 inches water but do not exceed a maximum of 0.140 inches water.

NOTE: Testing has indicated that less than 450 cfm makeup is required to maintain a pressure of 0.140 inches water.

6.0 REFERENCES:

- 6.1 FSAR Chapter 9.4.
- 6.2 Ebasco P&ID 2998-G-879, HVAC Control Diagram.
- 6.3 Ebasco P&ID 2998-G-873, General Arrangement.
- 6.4 Ebasco P&ID 2998-G-868, Reactor Building.
- 6.5 Ebasco P&ID 2998-G-869
- 6.6 Ebasco P&ID 2998-G-870, General Arrangement.

7.0 RECORDS REQUIRED:

- 7.1 Normal log entries.
- 7.2 The Nuclear Plant Supervisor should ensure that necessary data is collected to submit a Licensee Event Report, if required.