3.16 DEDICATED SHUTDOWN SYSTEM

Applicability

Applies to the operating status of the Dedicated Shutdown System when the reactor is critical.

Objective

To ensure the operability of the Dedicated Shutdown System.

Reports

Except as specified by the Limiting Conditions for Operation, in this or other portions of these specifications, the reporting requirements of 6.9.2 shall not apply for the Dedicated Shutdown System.

Specification

3.16.1 The Dedicated Shutdown System shall be OPERABLE:

a. With Service Water Pump "D" operable.

b. With Charging Pump "A" operable.

c. With Component Coolant Pump "A" operable.

d. With the Steam Driven Auxiliary Feedwater Pump (and essential valves to and from the "A" Steam Generator) operable.

e. All essential features including valves, interlocks, and piping associated with the above components are operable.

f. The following equipment on the Charging Pump Room Panel shall be operable:

1. "A" Charging Pump Local/Remote Controls.
2. "A" Component Cooling Water Pump Local/Remote Controls.
3. Service Water Pump "D" Local/Remote Controls.
4. "A" Steam Generator Level Indication.
5. Pressurizer pressure and level indications.
6. NIS instrumentation.
7. Wide range T_H and T_c instrumentation.
8. V-200A Local/Remote Controls.
9. V6-12D Local/Remote Controls.

g. The following equipment on the Secondary Control Panel shall be operable:

1. V1-8A controls.
2. V2-14A controls.
3. "A" Steam Generator Level Indication.
4. Pressurizer pressure and level indications.
5. Wide range T_H and T_c instrumentation.
6. "A" Steam Generator PORV and controls.

h. All breaker controls on the Mimic Bus Panel which affect the normal power supply to the Dedicated Shutdown (D.S.) Bus shall be operable.

i. The Dedicated Shutdown Diesel Generator and essential auxiliary equipment must be operable with a supply of 2500 gallons in the diesel day tank with an additional 6000 gallons of fuel available in the I.C. turbine fuel oil storage tank.

j. The following a.c. and d.c. auxiliary power supply equipment must be operable:

1. 120V a.c. and 120V d.c. power supply fed from 4 kV Bus 3.
2. 120V a.c. and 120V d.c. power supply from the Uninterruptible Power Supply (U.P.S.).

The alternate power supply from the D.S. Bus to MCC-5 shall be operable.

3.16.2 With any of the equipment of 3.16.1 inoperable, the equipment must be restored to operable status within 14 days or in lieu of any other report required by Specification 6.9.2, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.3g within the next 30 days outlining the action taken, the cause of inoperability, and plans and schedule for restoring the equipment to operable status.

Basis

The OPERABILITY of the Dedicated Shutdown System equipment ensures the ability to safely bring the plant to a hot shutdown condition in the unlikely event that a fire disables the ability to control the plant from the Control Room or results in the loss of both trains of safeguards equipment.

4.17 DEDICATED SHUTDOWN SYSTEM

Applicability

Applies to periodic testing and surveillance program for the Dedicated Shutdown System.

Objective

To verify the operability of the Dedicated Shutdown System components not covered by other sections of the specifications.

Specification

4.17.1 Diesel Generator

4.17.1.1 Manually-initiated start of the diesel generator, followed by manual synchronization with other power sources and assumption of load by the diesel generator up to 2000 kw. This test will be conducted monthly.

4.17.1.2 The diesel generator shall be inspected at each refueling.

4.17.2 Diesel Fuel Tanks

The fuel inventory required by Specification 3.16.1 shall be verified weekly.

4.17.3 Dedicated Shutdown Equipment

4.17.3.1 All controls in the following Dedicated Shutdown Panels shall be tested for operability each refueling outage:

a. Charging Pump Room Panel.

b. Secondary Control Panel.

c. Mimic Bus Panel.

d. V1-8A, V2-14A, and V6-12D Panels.

4.17.3.2 The following Dedicated Shutdown instrumentation shall be checked biweekly and calibrated at a refueling interval:

a. "A" Steam Generator Level.

b. Pressurizer Pressure and Level.

c. Nuclear Source Range Channel (Channel check when in service only).

d. Reactor Coolant Temperature (Wide Range T_H and T_c).

Basis

These checks, calibrations, and functional tests adequately verify the operability of the Dedicated Shutdown System.