

ATTACHMENT 2

REVISED PAGES

INSTRUCTIONS FOR REPLACEMENT OF AMENDMENT PAGES:

REMOVE PAGE:

3.5-48
4.1-8a
4.1-9
4.1-9a

INSERT PAGE:

3.5-48
4.1-8b
4.1-9
4.1-9a

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3.5.7 Main Steam Line Break Detection and Feedwater Isolation

Applicability

Applies to main steam line break (MSLB) detection and feedwater isolation circuitry when main steam header pressure is greater than 700 psig and to the Main Feedwater main and startup control (Main Feedwater control) valves when Reactor Coolant System temperature is greater than 250 °F.

Objective

To ensure availability of the MSLB detection and feedwater isolation circuitry and Main Feedwater control valves to protect against containment overpressurization during a MSLB inside containment.

Specifications

- 3.5.7.1 MSLB detection and feedwater isolation circuitry shall be operable per Table 3.5.1-1, Items 20, 21, and 22.
- 3.5.7.2 The Main Feedwater control valves shall be operable.
 - 3.5.7.2.1 The provisions of 3.5.7.2 may be modified as follows:
 - a. A Main Feedwater control valve in one or more flow paths may be inoperable provided the affected valve(s) are closed within 8 hours from discovery and verified closed once per 7 days.
 - b. If the required actions and associated completion time of 3.5.7.2.1.a cannot be met, the reactor shall be placed in a hot shutdown condition within 12 hours, and be less than or equal to an RCS temperature of 250 °F in an additional 18 hours.

Bases

The operability requirements of the MSLB detection and feedwater isolation circuitry and Main Feedwater control valves ensure that containment overpressure protection is available during a MSLB accident inside containment. The specified completion times provide adequate time to take appropriate action to restore the operability of the MSLB detection and feedwater isolation circuitry and the Main Feedwater control valves, or, if necessary, sufficient time to reduce power in a controlled manner.

Analyses of the main steam line break accident have determined that the containment design pressure of 59 psig could be exceeded with continued feedwater flow into the reactor building. To prevent exceeding the containment design pressure, the MSLB detection and feedwater isolation circuitry is designed to trip both Main Feedwater pumps, isolate all main

Table 4.1-1 (CONTINUED)

<u>Channel Description</u>	<u>Check</u>	<u>Test</u>	<u>Calibrate</u>	<u>Remarks</u>
60. Core Exit Thermocouples	MO	NA	18 months(1)	(1) A one-time extension of the calibration frequency to a maximum of 24 months is allowed for Oconee Unit 2 during operating cycle 16.
61. Subcooling Monitors	MO	18 months(1)	18 months(1)	(1) A one-time extension of the channel test and calibration frequency to a maximum of 24 months is allowed for Oconee Unit 2 during operating cycle 16.
62. Main Steam Header Pressure and MSLB detection (analog) channels	ES	18 months	18 months	
63. Feedwater isolation circuitry (digital) channels and manual pushbutton	NA	18 months	NA	

ES - Each Shift	QU - Quarterly
DA - Daily	AN - Annually
WE - Weekly	PS - Prior to startup, if not performed previous week
MO - Monthly	NA - Not Applicable
	STB - STAGGERED TEST BASIS

Table 4.1-2
MINIMUM EQUIPMENT TEST FREQUENCY

<u>Item</u>	<u>Test</u>	<u>Frequency</u>
1. Control Rod Movement ⁽¹⁾	Movement of Each Rod	Monthly
2. Pressurizer Safety Valves	Setpoint	18 months ⁽⁴⁾
3. Main Steam Safety Valves	Setpoint	18 months ⁽⁴⁾
4. Refueling System Interlocks ⁽⁵⁾	Functional	Prior to Refueling
5. Main Steam Stop Valves ⁽¹⁾	Movement of Each Stop Valve	Monthly
6. Reactor Coolant System ⁽²⁾ Leakage	Evaluate	Daily
7. Emergency Condenser ⁽⁶⁾ Circulating Water System Test	Functional	18 months
8. High Pressure Service Water Pumps and Power Supplies	Functional	Monthly
9. Spent Fuel Cooling System	Functional	Prior to Refueling
10. High Pressure and Low ⁽³⁾ Pressure Injection System	Vent Pump Casings	Monthly and Prior to Testing
11. Emergency Feedwater Pump Automatic Start and Automatic Valve Actuation Feature	Functional	18 months
12. MSLB Feedwater Isolation ⁽⁷⁾ Feature	Functional	18 months
13. Essential Siphon Vacuum ⁽⁸⁾ System Test	Functional	Quarterly

Oconee 1, 2, and 3

4.1- 9

Amendment No. _____ (Unit 1)

Amendment No. _____ (Unit 2)

Amendment No. _____ (Unit 3)

- (1) Applicable only when the reactor is critical.
- (2) Applicable only when the reactor coolant is above 200°F and at a steady-state temperature and pressure.
- (3) Operating pumps excluded.
- (4) Number of safety valves to be tested every 18 months shall be in accordance with ASME Codes Section XI, Article IWV-3511, such that each valve is tested at least once every 5 years.
- (5) Applicable only to the interlocks associated with the Reactor Building Purge System.
- (6) Verification of the Emergency Condenser Circulating Water (ECCW) System function to supply siphon suction to the Low Pressure Service Water System shall be performed to ensure operability of the LPSW System.
- (7) Verification that Main Feed Pumps, Main Feedwater Control Valves, and Turbine Driven Emergency Feedwater Pumps are appropriately actuated/inhibited by the MSLB Feedwater Isolation Feature.
- (8) Applicability of these surveillances for each Oconee unit will begin following completion of the Service Water upgrade on the respective unit.

Oconee 1, 2, and 3

4.1-9 a

Amendment No. _____ (Unit 1)

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