

→(DRN 04-1244, Am. 99)

3/4.4 REACTOR COOLANT SYSTEM

3/4.4.3 PRESSURIZER HEATERS

LIMITING CONDITION FOR OPERATION

→(DRN 06-1065, Am. 109)

3.4.3.1 The pressurizer heaters shall be OPERABLE with at least 300 kW of nominal heater capacity available in addition to the heater capacity specified in Technical Specification 3.4.3.1b.

←(DRN 06-1065, Am. 109)

APPLICABILITY: MODE 1

ACTION:

With less than the above heater capacity available, restore the required capacity within 72 hours or initiate a Condition Report which requires the performance of an evaluation justifying continued plant operation. The evaluation should be completed within the following 6 hours and should be approved by the General Manager Plant Operations (GMPO) or his designee (e.g., the duty plant manager).

SURVEILLANCE REQUIREMENTS

→(LBDCR 13-011, Am. 126)

4.4.3.1 The specified heater capacity shall be verified at least once each refueling **interval**.

←(DRN 04-1244, Am. 99; LBDCR 13-011, Am. 126)

→(DRN 07-201, Am. 112)

REACTOR COOLANT SYSTEM

3/4.4.5 LEAKAGE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.4.5.1 The following Reactor Coolant System leakage detection system shall be OPERABLE.

- a. Either the condensate flow switches on the required operable Containment Fan Coolers or a containment atmosphere gaseous radioactivity monitoring system.

APPLICABILITY: MODES 1, 2, 3, AND 4.

ACTION:

- a. With the above required leakage detection system not OPERABLE for more than 72 hours, initiate a Condition Report within the next 6 hours. This Condition Report requires within the following 30 days, evaluation of the condition and generation of a plan for restoring the equipment to operable status.
- b. The provisions of TRM LCO 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.4.5.1 The leakage detections system shall be demonstrated OPERABLE by:

- a. Containment atmosphere gaseous monitoring system-performance of a CHANNEL CHECK at least once per 12 hours. Containment atmosphere gaseous monitoring system-performance of CHANNEL FUNCTIONAL TEST at least once per quarter. Containment atmosphere gaseous monitoring system-performance CHANNEL CALIBRATION TEST at least once per 18 months.
- b. Containment Fan Cooler condensate flow switches – performance of a CHANNEL FUNCTIONAL TEST at least once per 18 months.

←(DRN 07-201, Am. 112)

→(DRN 07-201, Am. 112)

←(DRN 07-201, Am. 112)

REACTOR COOLANT SYSTEM

3/4.4.6 CHEMISTRY

LIMITING CONDITION FOR OPERATION

3.4.6 The Reactor Coolant System chemistry shall be maintained within the limits specified in Table 3.4-2.

APPLICABILITY: At all times.

ACTION:

MODES 1, 2, 3, and 4:

- a. With any one or more chemistry parameter in excess of its Steady State Limit but within its Transient Limit, restore the parameter to within its Steady State Limit within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With any one or more chemistry parameter in excess of its Transient Limit, be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

At All Other Times:

With the concentration of either chloride or fluoride in the Reactor Coolant System in excess of its Steady State Limit for more than 24 hours or in excess of its Transient Limit, reduce the pressurizer pressure to less than or equal to 500 psia, if applicable, and perform an engineering evaluation to determine the effects of the out-of-limit condition on the structural integrity of the Reactor Coolant System; determine that the Reactor Coolant System remains acceptable for continued operation prior to increasing the pressurizer pressure above 500 psia or prior to proceeding to MODE 4.

SURVEILLANCE REQUIREMENTS

4.4.6 The Reactor Coolant System chemistry shall be determined to be within the limits by analysis of those parameters at the frequencies specified in Table 4.4-3.

TABLE 3.4-2
REACTOR COOLANT SYSTEM
CHEMISTRY

<u>PARAMETER</u>	<u>STEADY STATE LIMIT</u>	<u>TRANSIENT LIMIT</u>
DISSOLVED OXYGEN*	≤ 0.10 ppm	≤ 1.00 ppm
CHLORIDE	≤ 0.15 ppm	≤ 1.50 ppm
FLUORIDE	≤ 0.10 ppm	≤ 1.00 ppm

*Limit not applicable with Tavg less than or equal to 250°F.

TABLE 4.4-3
REACTOR COOLANT SYSTEM
CHEMISTRY LIMITS SURVEILLANCE REQUIREMENTS

<u>PARAMETER</u>	<u>SAMPLE AND ANALYSIS FREQUENCY</u>
DISSOLVED OXYGEN*	At least once per 72 hours
CHLORIDE	At least once per 72 hours
FLUORIDE	At least once per 72 hours

*Not required with T_{avg} less than or equal to 250°F

→(DRN 04-1236, Am. 92)

REACTOR COOLANT SYSTEM

PRESSURIZER HEATUP/COOLDOWN

LIMITING CONDITION FOR OPERATION

3.4.8.2 The pressurizer shall be limited to:

→(DRN 06-1000, Am. 110)

- a. A maximum heatup rate of 200°F per hour,
- b. A maximum cooldown rate of 200°F per hour,

←(DRN 06-1000, Am. 110)

APPLICABILITY: At all times.

ACTION:

With any of the pressurizer limits in excess of any of the above limits, restore the affected parameter to within the limits within 30 minutes; perform an engineering evaluation to determine the effects of the out-of-limit condition on the structural integrity of the pressurizer; and enter TRM LCO 3.0.3.

SURVEILLANCE REQUIREMENTS

4.4.8.2.1 The pressurizer temperatures shall be determined to be within the limits at least once per 30 minutes during system heatup or cooldown.

←(DRN 04-1236, Am. 92)

→(DRN 04-1236, Am. 92, 07-201, Am. 112)

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←(DRN 04-1236, Am. 92, 07-201, Am. 112)

→(DRN 03-1808, Am. 80)

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3/4.4.9 STRUCTURAL INTEGRITY

LIMITING CONDITION FOR OPERATION

3.4.9 The structural integrity of ASME Code Class 1, 2, and 3 components shall be maintained.

APPLICABILITY: All MODES.

ACTION:

- a. With the structural integrity of any ASME Code Class 1 component(s) not conforming to the above requirements, restore the structural integrity of the affected component(s) prior to increasing the Reactor Coolant System temperature more than 70°F above the minimum temperature required by NDT considerations.
- b. With the structural integrity of any ASME Code Class 2 component(s) not conforming to the above requirements, restore the structural integrity of the affected component(s) to within its limit or isolate the affected component(s) prior to increasing the Reactor Coolant System temperature above 200°F, except during hydrostatic testing of components that are nonisolable from the Reactor Coolant System, then restore the structural integrity prior to increasing the Reactor Coolant System temperature more than 30°F above the minimum temperature required by NDT considerations.
- c. With the structural integrity of any ASME Code Class 3 component(s) not conforming to the above requirements, restore the structural integrity of the affected component to within its limit or isolate the affected component from service.

→(DRN 04-1191, Am. 91)

- d. The provisions of TRM LCO 3.0.4 are not applicable.

←(DRN 03-1808, Am. 80; 04-1191, Am. 91)

→(DRN 04-1244, Am. 99, 07-201, Am. 112)

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←(DRN 04-1244, Am. 99, 07-201, Am. 112)