3/4.4.3 REACTOR COOLANT SYSTEM LEAKAGE

LEAKAGE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.3.1 At least the following reactor coolant system leakage detection systems shall be OPERABLE:

- One-primary-containment-atmosphere-particulate-radioactivitymonitoring-system-channel-aligned-to-the-drywell.
- a ¥. Two drywell floor drain sump level channels or-the-flow-rate -monitoring-system, and
- One primary containment atmosphere gaseous radioactivity monitoring (15 6 X.

system channel aligned to the drywell, and one containment atmosphere particulate radioactivity ITY: OPERATIONAL CONDITIONS 1, 2 and 3. APPLICABILITY:

ACTION:

With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous or particulate radioactive monitoring system is inoperable; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILL'ANCE REQUIREMENTS

4.4.3.1 The reactor coolant system leakage detection systems shall be demonstrated OPERABLE by:

- Primary containment, atmosphere particulate and gaseous monitoring a. systems-performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.
- Drywell floor drain sump level on-flow-rate monitoring systemb. performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.
- a. With one or both channels of the drywell floor drain sump level monitoring system inoperable, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With both channels of the gaseous radio activity monitoring system inoperable or with both channels of the gaseous radioactivity monitoring system inoperable of with both channels of the particulate radioactivity monitoring system inoperable, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours. If at least one channel of the affected monitoring system cannot be returned to OPERABLE status and aligned to the drywell within 30 days, or the grab samples are not obtained and analyzed as required, be in at least Hor shurbown within the next 12 hours and in COLD shurbown within the following 24 hours.

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SURVEILLANCE REQUIREMENTS

4.4.3.2.1 The reactor coolant system leakage shall be demonstrated to be within each of the above limits by:

- a. Monitoring the primary containment atmospheric particulate and gaseous radioactivity at least once per 4 hours, and
- b. Monitoring the drywell floor drain sump level or flow-rate at least once per 4 hours.
- c. Determining the total IDENTIFIED LEAKAGE at least once per 24 hours.

4.4.3.2.2 Each reactor coolant system pressure isolation valve specified in Table 3.4.3.2-1 shall be demonstrated OPERABLE by leak testing pursuant to Specification 4.0.5 and verifying the leakage of each valve to be within the specified limit:

- a. At least once per 18 months, and
- b. Prior to returning the valve to service following maintenance, repair or replacement work on the valve which could affect its leakage rate.

The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 3.

4.4.3.2.3 The high/low pressure interface valve leakage pressure monitors shall be demonstrated OPERABLE with the alarm setpoints per Table 3.4.3.2-1 by performance of a:

a. CHANNEL FUNCTIONAL TEST at least once per 31 days, and

b. CHANNEL CALIBRATION at least once per 18 months.

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3/4.4.3 REACTOR COOLANT SYSTEM LEAKAGE

LEAKAGE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.3.1 At least the following reactor coolant system leakage detection systems shall be OPERABLE:

-One-primary-containment-atmosphere-particulate-radioactivitymonitoring-system-channel-aligned-to-the-drywelly.

- а.Ж. Two drywell floor drain sump level channels or the flow rate-moni--toring-system, and
- One primary containment atmosphere gaseous radioactivity monitoring bx?

system channel, aligned to the drywell. Sind one containment atmosphere particulate radioactivity nonitoring APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous or particulate radioactive monitoring system is inoperable; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.4.3.1 The reactor coolant system leakage detection systems shall be demonstrated OPERABLE by:

- Primary containment atmosphere particulate and gaseous monitoring a. systems-performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.
- Drywell floor drain sump level -or-flow-rate monitoring system-performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days Ь. . and a CHANNEL CALIBRATION at least once per 18 months.
- with one or both channels of the drywell floor drain sump level mentioning system inoperable, be in at least HOT SILOTDOWN within the next 12 hours and in COCD SHUTDOWN within a., the following 24 hours.

b. With both channels of the gaseous radioactivity monitoring system inoperable or both channels of the particulate radioactivity monitoring system inoperable, operation may continue for up to Bodays provided grab samples of the containment atmosphere are obtained and analyzed at lesst once per 24 hours. If at least one channel of the affected monitoring system sannot be returned to OPERABLE status and aligned to the drywell within Bodays, or the grab samples are not obtained and analyzed as required, be in at least flot Status are within the next is hours and in COLD SHUTDOWN within the following 24 hours.

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SURVEILLANCE REQUIREMENTS

4.4.3.2.1 The reactor coolant system leakage shall be demonstrated to be within each of the above limits by:

- a. Monitoring the primary containment atmospheric particulate and gaseous radioactivity at least once per 4 hours, and
- b. Monitoring the drywell floor drain sump level or-flow=rate at least once per 4 hours.
- c. Determining the total IDENTIFIED LEAKAGE at least once per 24 hours.

4.4.3.2.2 Each reactor coolant system pressure isolation valve specified in Table 3.4.3.2-1 shall be demonstrated OPERABLE by leak testing pursuant to Specification 4.0.5 and verifying the leakage of each valve to be within the specified limit:

- a. At least once per 18 months, and
- b. Prior to returning the valve to service following maintenance, repair or replacement work on the valve which could affect its leakage rate.

The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 3.

4.4.3.2.3 The high/low pressure interface valve leakage pressure monitors shall be demonstrated OPERABLE with the alarm setpoints per Table 3.4.3.2-1 by performance of a:

a. CHANNEL FUNCTIONAL TEST at least once per 31 days, and

b. CHANNEL CALIBRATION at least once per 18 months.

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