

Attachment 3 to  
ULNRC-2378

PROPOSED TECHNICAL SPECIFICATION CHANGES

Specification 3/4.6.1.1  
3/4.6.1.2

### 3/4.6 CONTAINMENT SYSTEMS

#### 3/4.6.1 PRIMARY CONTAINMENT

##### CONTAINMENT INTEGRITY

##### LIMITING CONDITION FOR OPERATION

3.6.1.1 Primary CONTAINMENT INTEGRITY shall be maintained.

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

##### ACTION:

Without primary CONTAINMENT INTEGRITY, restore CONTAINMENT INTEGRITY within 1 hour or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

##### SURVEILLANCE REQUIREMENTS

4.6.1.1 Primary CONTAINMENT INTEGRITY shall be demonstrated:

- a. At least once per 31 days by verifying that all penetrations\* not capable of being closed by OPERABLE containment automatic isolation valves and required to be closed during accident conditions are closed by valves, blind flanges, or deactivated automatic valves secured in their positions, except as provided in Table 3.6-1 of Specification 3.6.3; Closed
- b. By verifying that each containment air lock is in compliance with the requirements of Specification 3.6.1.3; and
- c. After each closing of each penetration subject to Type B testing, except the containment air locks, if opened following a Type A or B test, by leak rate testing the seal with gas at a pressure not less than  $P_a$ , 48.1 psig, and verifying that when the measured leakage rate for these seals is added to the leakage rates determined pursuant to Specification 4.6.1.2d. for all other Type B and C penetrations, the combined leakage rate is less than  $0.60 L_a$ .

Manual

\* Except valves, blind flanges, and deactivated automatic valves which are located inside the containment and are locked, sealed or otherwise secured in the closed position. These penetrations shall be verified closed during each COLD SHUTDOWN except that such verification need not be performed more often than once per 92 days.

## CONTAINMENT SYSTEMS

### CONTAINMENT LEAKAGE

#### LIMITING CONDITION FOR OPERATION

3.6.1.2 Containment leakage rates shall be limited to:

- An overall integrated leakage rate of less than or equal to  $L_a$ , 0.20% by weight of the containment air per 24 hours at  $P_a$ , 48.1 psig.
- A combined leakage rate of less than  $0.60 L_a$ , for all penetrations and valves subject to Type B and C tests, when pressurized to  $P_a$ , 48.1 psig.

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

ACTION: Insert A

~~With either the measured overall integrated containment leakage rate exceeding  $0.75 L_a$  or the measured combined leakage rate for all penetrations and valves subject to Types B and C tests exceeding  $0.60 L_a$ , restore the overall integrated leakage rate to less than  $0.75 L_a$  and the combined leakage rate for all penetrations subject to Type B and C tests to less than  $0.60 L_a$  prior to increasing the Reactor Coolant System temperature above 300°F.~~

#### SURVEILLANCE REQUIREMENTS

4.6.1.2 The containment leakage rates shall be demonstrated at the following test schedule and shall be determined in conformance with the criteria specified in Appendix J of 10 CFR Part 50 using the methods and provisions of ANSI N45.4-1972:

Insert B

- ~~Three Type A tests (Overall Integrated Containment Leakage Rate) shall be conducted at  $40 \pm 10$  month intervals during shutdown at a pressure not less than  $P_a$ , 48.1 psig, during each 10-year service period. The third test of each set shall be conducted during the shutdown for the 10-year plant inservice inspection;~~  
~~as found~~
- If any periodic Type A test fails to meet  $0.75 L_a$ , the test schedule for subsequent Type A tests shall be reviewed and approved by the Commission. If two consecutive Type A tests fail to meet  $0.75 L_a$ ,  
~~a Type A test shall be performed at least every 18 months until two consecutive Type A tests meet  $0.75 L_a$ , at which time the above test schedule may be resumed. The as test overall integrated containment leakage rate shall be less than  $0.75 L_a$ ;~~  
as found

INSERT A

ACTION:

- a. With the overall integrated containment leakage rate exceeding  $1.0 L_a$ , perform the ACTION of Specification 3.6.1.1.
- b. With the as left overall integrated containment leakage rate exceeding  $0.75 L_a$ , restore the overall integrated leakage rate to less than  $0.75 L_a$  prior to increasing the Reactor Coolant System temperature above  $200^\circ\text{F}$ .
- c. With the combined leakage rate for all penetrations and valves subject to Type B and C tests exceeding  $0.60 L_a$  :
  - 1) Restore the combined leakage rate to less than  $0.60 L_a$  within 4 hours, or
  - 2) Isolate each failed penetration within 4 hours by use of at least one closed manual valve or blind flange, or a deactivated automatic valve secured in the closed position, or
  - 3) Be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

INSERT B

- a. Three Type A tests (Overall Integrated Containment Leakage Rate) shall be conducted during each 10-year service period at approximately equal intervals, with the third test of each set conducted as close as practical to the end of the 10-year period, during shutdown at a pressure not less than  $P_a$ , 48.1 psig.

3/4.6 CONTAINMENT SYSTEMS

3/4.6.1 PRIMARY CONTAINMENT

CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION

3.6.1.1 Primary CONTAINMENT INTEGRITY shall be maintained.

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

ACTION:

Without primary CONTAINMENT INTEGRITY, restore CONTAINMENT INTEGRITY within 1 hour or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.6.1.1 Primary CONTAINMENT INTEGRITY shall be demonstrated:

- a. At least once per 31 days by verifying that all penetrations\* not capable of being closed by OPERABLE containment automatic isolation valves and required to be closed during accident conditions are closed by manual valves, blind flanges, or deactivated automatic valves secured in their closed position, except as provided in Table 3.6-1 of Specification 3.6.3;
- b. By verifying that each containment air lock is in compliance with the requirements of Specification 3.6.1.3; and
- c. After each closing of each penetration subject to Type B testing, except the containment air locks, if opened following a Type A or B test, by leak rate testing the seal with gas at a pressure not less than  $P_a$ , 48.1 psig, and verifying that when the measured leakage rate for these seals is added to the leakage rates determined pursuant to Specification 4.6.1.2d. for all other Type B and C penetrations, the combined leakage rate is less than  $0.60 L_a$ .

\* Except valves, blind flanges, and deactivated automatic valves which are located inside the containment and are locked, sealed or otherwise secured in the closed position. These penetrations shall be verified closed during each COLD SHUTDOWN except that such verification need not be performed more often than once per 92 days.



CONTAINMENT SYSTEMS

CONTAINMENT LEAKAGE

LIMITING CONDITION FOR OPERATION

3.6.1.2 Containment leakage rates shall be limited to:

- a. An overall integrated leakage rate of less than or equal to  $L_a$ , 0.20% by weight of the containment air per 24 hours at  $P_a$ , 48.1 psig.
- b. A combined leakage rate of less than  $0.60 L_a$ , for all penetrations and subject to Type B and C tests, when pressurized to  $P_a$ , 48.1 psig.

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

ACTION:

- a. With the overall integrated containment leakage rate exceeding  $1.0 L_a$ , perform the ACTION of Specification 3.6.1.1.
- b. With the as left overall integrated containment leakage rate exceeding  $0.75 L_a$ , restore the overall integrated leakage rate to less than  $0.75 L_a$  prior to increasing the Reactor Coolant System temperature above 200°F.
- c. With the combined leakage rate for all penetrations and valves subject to Type B and C tests exceeding  $0.60 L_a$ :
  - 1) Restore the combined leakage rate to less than  $0.60 L_a$  within 4 hours, or
  - 2) Isolate each failed penetration within 4 hours by use of at least one closed manual valve or blind flange, or a deactivated automatic valve secured in the closed position, or
  - 3) Be in at least HOT STANDBY within the next 6 hours and in cold SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.6.1.2 The containment leakage rates shall be demonstrated at the following test schedule and shall be determined in conformance with the criteria specified in Appendix J of 10 CFR Part 50 using the methods and provisions of ANSI N45.4-1972:

- a. Three Type A tests (Overall Integrated Containment Leakage Rate) shall be conducted during each 10-year service period at approximately equal intervals, with the third test of each set conducted as close as practical to the end of the 10-year period, during shutdown at a pressure not less than  $P_a$ , 48.1 psig.
- b. If any periodic as found Type A test fails to meet  $L_a$ , the test schedule for subsequent Type A tests shall be reviewed and approved by the Commission. If two consecutive as found Type A tests fail to meet  $L_a$ , a Type A test shall be performed at least every 18 months until two consecutive as found Type A tests meet  $L_a$ , at which time the above test schedule may be resumed. The as left over all integrated containment leakage rate shall be less than  $0.75 L_a$ .