

Enclosure 4

Edwin I. Hatch Nuclear Plant - Unit 2  
Request to Revise Technical Specifications:  
Increase in Allowable MSIV Leakage Rate and  
Deletion of the MSIV Leakage Control System

Page Change Instructions

The proposed changes to the Plant Hatch Unit 2 Technical Specifications will be incorporated as follows:

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## CONTAINMENT SYSTEMS

### PRIMARY CONTAINMENT LEAKAGE

#### LIMITING CONDITION FOR OPERATION

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3.6.1.2 Primary containment leakage rates shall be limited to:

- a. An overall integrated leakage rate of:
  1.  $\leq L_a$ , 1.2 percent by weight of the containment air per 24 hours at  $P_a$ , 57.5 psig, or
  2.  $\leq L_t$ , 0.849 percent by weight of the containment air per 24 hours at a reduced pressure of  $P_t$ , 28.8 psig.
  
- b. A combined leakage rate of:
  1.  $\leq 0.60 L_a$  for all penetrations and valves, except for main steam isolation valves, subject to Type B and C tests when pressurized to  $P_a$ , and
  2.  $\leq 0.009 L_a$  for the following penetrations\*:
    - (a) Main steam condensate drain, penetration 8;
    - (b) Deleted
    - (c) Reactor water cleanup, penetration 14;
    - (d) Equipment drain sump discharge, penetration 18;
    - (e) Floor drain sump discharge, penetration 19; and
    - (f) Chemical drain sump discharge, penetration 55;
    - (g) Deleted
  
- c. When tested at 28.8 psig\*\*, 100 scf per hour for any one main steam isolation valve and a combined maximum pathway leakage rate of 250 scf per hour for all four main steam lines.

APPLICABILITY: When PRIMARY CONTAINMENT INTEGRITY is required per Specification 3.6.1.1.

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\*Potential bypass leakage paths.

\*\*Exemption to Appendix J of 10 CFR 50.

## CONTAINMENT SYSTEMS

### LIMITING CONDITION FOR OPERATION (Continued)

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#### ACTION:

##### With:

- a. the measured overall integrated containment leakage rate exceeding  $0.75 L_a$  or  $0.75 L_t$ , as applicable, or
- b. the measured combined leakage rate for all penetrations and valves, except main steam isolation valves, subject to Type B and C tests exceeding  $0.60 L_a$  or with the measured combined leakage rate for all specified potential bypass leakage path penetrations exceeding  $0.009 L_a$ , or
- c. the main steam isolation valve measured leak rate exceeding 100 scf per hour for any one MSIV or a total maximum pathway leakage rate of  $> 250$  scf per hour for all four main steam lines,

##### Restore:

- a. the overall integrated leakage rate(s) to  $< 0.75 L_a$  or  $< 0.75 L_t$  as applicable, and
- b. the combined leakage rate for all penetrations and valves, except main steam isolation valves, subject to Type B and C tests to  $\leq 0.60 L_a$  and the combined leakage rate for the specified potential bypass leakage path penetrations to  $\leq 0.009 L_a$ , and
- c. the leakage rate to  $\leq 11.5$  scf per hour for any main steam isolation valve that exceeds 100 scf per hour, and restore the combined maximum pathway leakage rate to  $\leq 250$  scf per hour,

Prior to increasing the reactor coolant temperature above 212°F.

### SURVEILLANCE REQUIREMENTS

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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 50 using the methods and provisions of ANSI N45.4 - (1972):

- a. Three Type A tests (Overall Integrated Containment Leakage Rate) shall be conducted at  $40 \pm 10$  month intervals during shutdown at either  $P_a$ , 57.5 psig or at  $P_t$ , 28.8 psig during each 10-year service<sup>a</sup> period. The third test of each set shall be conducted during the shutdown for the 10-year plant inservice inspection.

CONTAINMENT SYSTEMS

PRIMARY CONTAINMENT LEAKAGE

LIMITING CONDITION FOR OPERATION

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3.6.1.2 Primary containment leakage rates shall be limited to:

a. An overall integrated leakage rate of:

1.  $\leq L_a$ , 1.2 percent by weight of the containment air per 24 hours at  $P_a$ , 57.5 psig, or
2.  $\leq L_t$ , 0.849 percent by weight of the containment air per 24 hours at a reduced pressure of  $P_t$ , 28.8 psig.

b. A combined leakage rate of:

1.  $\leq 0.60 L_a$  for all penetrations and valves, except for main steam isolation valves, subject to Type B and C tests when pressurized to  $P_a$ , and
2.  $\leq 0.009 L_a$  for the following penetrations\*:
  - (a) Main steam condensate drain, penetration 8;
  - (b) Deleted
  - (c) Reactor water cleanup, penetration 14;
  - (d) Equipment drain sump discharge, penetration 18;
  - (e) Floor drain sump discharge, penetration 19; and
  - (f) Chemical drain sump discharge, penetration 55;
  - (g) Deleted

c. <sup>100</sup> 11.5 scf per hour for any one main steam isolation valve, when tested at 28.8 psig.\*\*

and a combined maximum pathway leakage rate of 250 scf per hour for all four main steam lines.

APPLICABILITY: When PRIMARY CONTAINMENT INTEGRITY is required per Specification 3.6.1.1.

\* Potential bypass leakage paths.

\*\* Exemption to Appendix J of 10 CFR 50.

## CONTAINMENT SYSTEMS

### LIMITING CONDITION FOR OPERATION (Continued)

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#### ACTION:

##### With:

- a. the measured overall integrated containment leakage rate exceeding  $0.75 L_a$  or  $0.75 L_t$ , as applicable, or,
- b. the measured combined leakage rate for all penetrations and valves, except main steam isolation valves, subject to Type B and C tests exceeding  $0.60 L_a$  or with the measured combined leakage rate for all specified potential bypass leakage path penetrations exceeding  $0.009 L_a$ , or
- c. the main steam isolation valve measured leak rate exceeding 11.5 scf per hour for any one MSIV, or a total maximum pathway leakage rate of  $> 250$  scf per hour for all four main steam lines,

##### Restore:

- a. the overall integrated leakage rate(s) to  $< 0.75 L_a$  or  $< 0.75 L_t$  as applicable, and
- b. the combined leakage rate for all penetrations and valves, except main steam isolation valves, subject to Type B and C tests to  $\leq 0.60 L_a$  and the combined leakage rate for the specified potential bypass leakage path penetrations to  $\leq 0.009 L_a$ , and
- c. the leakage rate to  $\leq 11.5$  scf per hour for any one main steam isolation valve, that exceeds 100 scf per hour, and restore the combined maximum pathway leakage rate to  $\leq 250$  scf per hour,

Prior to increasing the reactor coolant temperature above  $212^\circ\text{F}$ .

### SURVEILLANCE REQUIREMENTS

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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 50 using the methods and provisions of ANSI N45.4 - (1972):

- a. Three Type A tests (Overall Integrated Containment Leakage Rate) shall be conducted at  $40 \pm 10$  month intervals during shutdown at either  $P_a$ , 57.5 psig or at  $P_t$ , 28.8 psig during each 10-year service period. The third test of each set shall be conducted during the shutdown for the 10-year plant in-service inspection.