

Regulatory Conference

Kewaunee Containment Hatch Closure



Nuclear Regulatory Commission - Region III

Lisle, Illinois

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Introduction and Opening Remarks

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Agenda

1. Introduction and Opening Remarks
2. Overview of Event and Inspection Finding
 - a. Description of Containment Hatch Issue
 - b. Description of Apparent Violation
 - c. Preliminary Safety Significance Determination
3. Licensee Presentation
4. NRC Caucus
5. Closing Remarks

Description

- Steel Rail System Installed for Reactor Head Replacement
- Curvature of Containment Hatch Not Considered in Design
- Steel Rail System Obstructed Hatch Closure
- Inability to Close Containment Equipment Hatch Expeditiously
- Fuel was in the Reactor Vessel
- Time to Boil < 30 minutes
- One Emergency Diesel Generator Out of Service
- Reactor Coolant System Opened to Containment Atmosphere

Performance Deficiency

- NUMARC 91-06, Section 4.1.1
 - Applicable to Containment Hatch or Penetrations that Communicate with Containment Atmosphere
 - Hatch Either be Closed or Capable of being Closed
 - Prior to Core Boiling Following a Loss of Decay Heat Removal
 - Addressed by Procedure
- Procedure Developed to Close Hatch If Needed
- Poor Track Design Not Identified
- Numerous Opportunities for Identification

Apparent Violation

- 10 CFR 50, Appendix B, Criterion V:
Instructions, Procedures, and Drawings
- Plant Procedure CMP-89-A-02
 - required that any equipment which passes through and could obstruct containment hatch closure be designed to allow rapid removal in order to ensure expeditious containment building equipment hatch closure.
- Interior Rail System was not designed to allow rapid removal in order to ensure expeditious containment hatch closure.

Safety Significance Determination (Preliminary)

- Phase I:
 - IMC 0609 Appendix A (Attachment 1) and Appendix H
 - Type B Finding (affects only LERF, not CDF)
- Phase II:
 - IMC 0609 Appendix H
 - In-depth Mitigation Capability
 - White Finding
- Phase III:
 - Station Blackout Scenarios
 - White Finding

Licensee Presentation

NRC Caucus

Closing Remarks

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