

Crystal River 3

3Q/2003 Plant Inspection Findings

Initiating Events

Mitigating Systems

Significance:  Sep 27, 2003

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Protect One Train of Safe Shutdown Equipment From Fire Damage

The inspectors identified a non-cited violation of 10 CFR Part 50, Appendix R, Section III.G.2, Fire Protection of Safe Shutdown Capability, for failure to protect certain electrical cables for safe shutdown equipment from fire damage in three fire areas. The licensee has corrected related identified procedural deficiencies and plans to resolve the noncompliance with cable protection through licensing correspondence with the NRC.

This finding is greater than minor safety significance because it involved a lack of required fire barriers for equipment relied upon for safe shutdown following a fire and because it affected the objectives of the Mitigating Systems Cornerstone of Reactor Safety. It affected the availability and reliability of systems that mitigate initiating events to prevent undesirable consequences. The finding is of very low safety significance because licensee's proceduralized manual actions are reasonably accomplishable and training would have enabled operators to maintain the makeup function sufficiently to maintain reactor coolant system process variables within acceptable ranges. Therefore, the inspectors identified this issue as a Green finding as described in Inspection Procedure 71111.05, Fire Protection. (Section 4OA5)

Inspection Report# : [2003005\(pdf\)](#)

Significance:  Sep 27, 2003

Identified By: Self Disclosing

Item Type: NCV NonCited Violation

Failure to Maintain Two Operable Control Complex Cooling Trains

A self-revealing non-cited violation of Crystal River 3 Technical Specification 3.7.18 was identified. Following Train B chiller maintenance on December 19, 2002, and Train A chiller maintenance on February 25, 2003, neither train of control complex cooling was operable because control complex chiller motor overload relays had been improperly set below their design values. The problem was identified on June 11, 2003, when both chiller motors tripped on overload current, when an overload current condition had not occurred.

The self-revealing finding is greater than minor safety significance because it resulted in a loss of the control complex cooling safety function and affected the availability and reliability of the Mitigating Systems Cornerstone of Reactor Safety that is used to mitigate events. The finding is of very low safety significance because the alternate non-safety Appendix R cooling system and feedwater pump (FWP-7) were available to mitigate transients involving systems that could be affected by the loss of cooling. (Section 4OA3)

Inspection Report# : [2003005\(pdf\)](#)

Significance:  Jun 28, 2003

Identified By: NRC

Item Type: NCV NonCited Violation

Failure To Implement Inservice Testing Program Requirements (Section 1R22).

A finding was identified for failure to implement increased frequency testing of a safety-related pump, after the pump differential pressure was found in the Alert range of the ASME Code, Section XI test on December 2, 2002. When tested on May 22, 2003, the pump was found in the Action range and was declared inoperable.

A non-cited violation of Technical Specification 5.6.2 was identified. The finding is greater than minor because an engineering evaluation was required to assure that accident analysis requirements were met during the subsequent period of operation with differential pressure below the design minimum value. If the finding had not been corrected, pump performance could have resulted in the safety system not being capable of performing its design function to remove residual heat following an accident. The finding is of very low safety significance because the maximum period of operation below the design minimum differential pressure was of short duration and redundancy existed that assured the safety function remained available. (Section 1R22)

Inspection Report# : [2003004\(pdf\)](#)

Barrier Integrity

Emergency Preparedness

Occupational Radiation Safety

Public Radiation Safety

Physical Protection

Miscellaneous

Last modified : December 01, 2003