North Anna 1
1Q/2008 Plant Inspection Findings

Initiating Events

Mitigating Systems

Significance: G Mar 30, 2008
Identified By: Self-Revealing
Item Type: NCV NonCited Violation
Inoperability of 1H EDG Due to Failure to Adequately Establish Procedural Requirements for Protective Relay Testing
A self-revealing, non-cited violation of Technical Specification (TS) 5.4.1a was identified for a failure to adequately establish procedure requirements for protective relay testing which resulted in the inoperability of the '1H' emergency diesel generator (EDG). The licensee entered this problem into their corrective action program, revised the procedure, and successfully completed the relay testing.

The finding was more than minor because it impacted the mitigating systems cornerstone objective to ensure reliability and capability of systems that respond to initiating events to prevent undesirable consequences, and the related attribute of procedure quality. The finding was of very low safety significance or Green because it did not result in an actual loss of safety function nor a loss of one train for greater than the allowed Technical Specification outage time. The cause of this finding involved the cross-cutting area of human performance, the related component of resources, and the associated aspect of complete and accurate procedures, H.2(c), because the failure to establish adequate procedural requirements rendered '1H' EDG inoperable.

Inspection Report# : 2008002 *(pdf)*

Significance: G Dec 31, 2007
Identified By: NRC
Item Type: NCV NonCited Violation
Failure to Adequately Implement Procedure for Installation of Containment Sump Modification
A Green, non-cited violation of Title 10 Code of Federal Regulations Part 50, Appendix B, Criterion V, was identified by the NRC for failure to adequately accomplish a procedure for installation of the Unit 1 containment sump strainer modification. On October 11, 2007, the inspectors performed a walkdown of the containment sump strainer just prior to Mode 4 and identified openings or gaps between module ‘B9' and ‘B8’ which exceeded the allowable tolerance. The licensee had recently completed their operational readiness reviews of a modification to the sump strainer. The licensee’s inspection of other modules revealed only minor problems which were corrected. The problem is identified in the licensee’s corrective action program as condition report 022264.

The finding was more than minor due to the impact on the mitigating systems cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences and the related attribute of human performance. The finding was of very low safety significance (Green) because the problem was identified while in Mode 5, the mode in which the safety function was not required. The cause of this finding is related to the aspect of procedural compliance of the work practices’ component in the cross-cutting area of human performance (H.4.b) because personnel failure to follow modification installation procedures.
Inspection Report# : 2007005 *(pdf)*

Significance: G Sep 30, 2007
Identified By: NRC
Item Type: NCV NonCited Violation

Failure to Perform Required ASME Code Section XI Leakage Testing
The inspectors identified a non-cited violation of 10 CFR 50.55a(g)(4) associated with failure to perform testing of buried, isolable piping for the charging, safety injection, recirculation spray, quench spray, auxiliary feedwater, and service water systems in accordance with the American Society of Mechanical Engineers Code Section XI requirements. The licensee promptly entered the issue into their corrective action program. In response to NRC questions, the licensee performed an evaluation to demonstrate the piping condition was acceptable.

This finding is more than minor because it affected the Equipment Performance attribute of the Mitigating Systems cornerstone objective, and would have allowed undetected through-wall flaws to develop in the header piping. These flaws would then grow in size until leakage from the buried headers degraded system operation, or if sufficient general corrosion occurred, a gross rupture or collapse of the piping occurs. The finding is of very low safety significance because the affected systems remained able to perform their safety functions and it did not affect external event mitigation. The cause of the violation is related to the complete documentation and component labeling aspect of the cross-cutting area of human performance, in that, procedures failed to include required testing (H.2(c)).
Inspection Report# : 2007004 *(pdf)*

Significance: G Aug 31, 2007
Identified By: NRC
Item Type: NCV NonCited Violation
Failure to Ensure Adequate Control and Storage of Safety-Related EDG Parts
A non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion XIII, Handling, Storage and Shipping, was identified by the NRC. Specifically, the licensee failed to ensure adequate controls for the storage and preservation of safety-related material and equipment in accordance with plant instructions. Emergency diesel generator (EDG) parts were stored in an uncontrolled, unmonitored, and environmentally unregulated storage container on an open pad outside the Protected Area, but within the Owner Controlled Area.

The failure to ensure adequate controls were in place to store safety-related EDG parts was considered a performance deficiency. The finding was considered more than minor because if left uncorrected, it would become a more significant safety concern because of the possible use of these parts in safety-related equipment. The finding was determined to be of very low safety significance because it did not represent an actual malfunction or inoperability of an EDG system or component. This finding has a cross-cutting aspect of safety or risk-significant decision making in the area of human performance because the organization knowledgeable of quality assurance storage requirements was not included in the decision for the relocation of the storage container (H.1(a)).

Inspection Report# : 2007008 *(pdf)*

Barrier Integrity

Emergency Preparedness

Occupational Radiation Safety

Public Radiation Safety

Physical Protection

Although the NRC is actively overseeing the Security cornerstone, the Commission has decided that certain findings pertaining to security cornerstone will not be publicly available to ensure that potentially useful information is not provided to a possible adversary. Therefore, the cover letters to security inspection reports may be viewed.

Miscellaneous

Last modified : June 05, 2008