

Nine Mile Point 1

4Q/2010 Plant Inspection Findings

Initiating Events

Significance:  Dec 31, 2010

Identified By: NRC

Item Type: NCV NonCited Violation

Reactor Scram due to Inadequate Post-Maintenance Testing

A self-revealing finding of very low safety significance associated with a non-cited violation (NCV) of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," was identified when previously unidentified inadequate electrical connections for two solenoid operated valves (SOVs) in the control air system for the Nine Mile Point Nuclear Station (NMPNS) Unit 1 outboard main steam isolation valves (MSIVs) led to an inadvertent closure of the outboard MSIVs and resultant reactor scram. The SOV electrical connections had not been identified as defective after installation due to inadequate postmaintenance testing. As immediate corrective action, the plant was taken to cold shutdown and an investigation into the cause of the event was commenced. The issue was entered into the corrective action program (CAP) as condition report (CR) 2010-11008.

The finding was more than minor because it was associated with the procedure quality attribute of the Initiating Events cornerstone and affected the cornerstone objective to limit the likelihood of those events that upset plant stability and challenge critical safety functions during shutdown as well as power operations. Additionally, the finding was similar to example 4.b in Appendix E of Inspection Manual Chapter (IMC) 0612, in that it resulted in a reactor scram. The finding was determined to be of very low safety significance in accordance with IMC 0609, Appendix A, "Determining the Significance of Reactor Inspection Findings for At-Power Situations," based on a Phase 3 analysis. The Region I senior reactor analyst (SRA) evaluated the safety significance of the finding using the Systems Analysis Programs for Hands-on Integrated Reliability Evaluations (SAPHIRE) and Nine Mile Point Unit One Standardized Plant Analysis Risk (SPAR) models. The finding did not have a cross-cutting aspect because the performance deficiency did not occur within the past three years and therefore was not reflective of present performance.

Inspection Report# : [2010005](#) (*pdf*)

Mitigating Systems

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 : March 03, 2011