

Surry 1 2Q/2013 Plant Inspection Findings

Initiating Events

Mitigating Systems

Significance: G Mar 31, 2013

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Procedure Results in Inoperability of One Train of Charging Pump Service Water

A self-revealing NCV of Technical Specification 6.4.D was identified for the failure to follow procedure 2-MOP-SW-001, "Charging Pumps Service Water Pumps Removal from and/or Return to Service," Revision 3 . Specifically, the licensee incorrectly implemented procedure steps that directed the tagout of the Unit 2 'A' train charging pump service water pump, which resulted in the inoperability of the Unit 1 'A' train charging pump service water pump. The issue was documented in the licensee's corrective action program (CAP) as CR 501208.

The inspectors determined that the failure to follow procedure 2-MOP-SW-001 was a performance deficiency that was within the licensee's ability to foresee and correct and should have been prevented. The inspectors determined that the finding was more than minor because it was associated with the Mitigating Systems cornerstone attribute of Equipment Performance and adversely affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, the closure of the Unit 1 'A' train charging service water pump discharge isolation valve resulted in the inoperability of that train and entry into the associated TS LCO. The inspectors screened this finding in accordance with IMC 0609, "Significance Determination Process," Attachment 4, "Initial Characterization of Findings," and IMC 0609, Appendix A, "SDP for Findings At-Power", and determined the finding was of very low safety significance (Green), since it did not cause a loss of operability or functionality of a single train for greater than its TS allowed outage time. The finding had a cross-cutting aspect in human performance, work practices, H.4(a), because inadequacies were identified associated with the pre-job brief, self-check practices, and proceeding in the face of unexpected circumstances. (Section 4OA3.3)

Inspection Report# : [2013002](#) (*pdf*)

Significance: G Dec 31, 2012

Identified By: NRC

Item Type: NCV NonCited Violation

Submerged Cables Identified in Safety-Related Manhole

The inspectors identified a Green noncited violation of Technical Specification 6.4.A.7, which requires appropriate corrective maintenance procedures which would have an effect on the safety of the reactor. Specifically, Dominion procedure 0-MCM-1207-01, "Pumping of Security and Electrical Cable Vaults," was inadequate to prevent or detect submerged cables in a safety-related manhole, which is a performance deficiency.

The inspectors determined that Dominion procedure 0-MCM-1207-01, "Pumping of Security and Electrical Cable Vaults" was inadequate to accomplish its intended purpose, which constitutes a performance deficiency in accordance

with Technical Specification 6.4.A.7, which requires appropriate corrective maintenance procedures which would have an effect on the safety of the reactor. The inspectors determined that the finding was more than minor because it was associated with the mitigating systems cornerstone attribute of equipment performance and adversely affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, this condition could lead to cable degradation, increased likelihood of cable failure, and subsequent risk associated with the failure of safety-related equipment.

The inspectors screened this finding in accordance with IMC 0609, "Significance Determination Process," Attachment 4, "Initial Characterization of Findings," dated 6/19/12 and IMC 0609, Appendix A, "SDP for Findings At-Power", dated 6/19/2012 and determined the finding was of very low safety significance, Green, since it was a deficiency determined not to have resulted in the loss of operability or functionality of a single train for greater than its TS allowed outage time. The finding had a cross-cutting aspect in problem identification and resolution, corrective action program, P.1(c), because the corrective actions taken to address previous NRC identified concerns in the same manhole did not thoroughly evaluate the problem such that resolutions addressed the causes. (Section 1R06)

Inspection Report# : [2012005](#) (*pdf*)

Significance:  Sep 30, 2012

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Follow Operability Procedure for "1B" Charging Pump

The inspectors identified a Green noncited violation of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," when licensee personnel failed to implement operability procedure, OP-AA-102, "Operability Determinations." Specifically, personnel declared the "1B" charging pump on Unit 1 operable for a period of approximately 7 days without adequate supporting technical information when the speed increaser (gearbox) was observed with excessive lube oil foaming to the point where sight glass oil level was not visible and could not be determined. The licensee has entered this issue into their CAP as CR 461276.

The inspectors determined that the failure to provide adequate technical information to support the immediate operability declarations of the „1B? charging pump, as required by operability procedure, OP-AA-102, "Operability Determinations", was a performance deficiency. The inspectors reviewed IMC 0612, Appendix B, "Issue Screening" and determined that the finding was more than minor because it was associated with the Mitigating Systems cornerstone attribute of Equipment Performance and adversely affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, the foaming condition and the inadequate operability determinations resulted in both a degradation of pump reliability and affected pump availability. The inspectors also noted that this issue was part of a larger programmatic concern associated with the licensee's implementation of its operability process and procedure.

The inspectors screened this finding in accordance with IMC 0609, "Significance Determination Process," Attachment 4, "Initial Characterization of Findings," and IMC 0609, Appendix A, "SDP for Findings At-Power", and determined the finding was of very low safety significance, Green, since it was a deficiency determined not to have resulted in the loss of operability or functionality of a single train for greater than its TS allowed outage time. The cause of this finding involved the cross-cutting area of human performance, the component of decision making, and the aspect of using conservative assumptions, H.1(b), because the multiple immediate operability determinations concluding that the "1B" charging pump was operable were non-conservative in light of the lack of supporting technical information.

Inspection Report# : [2012004](#) (*pdf*)

Barrier Integrity

Emergency Preparedness

Occupational Radiation Safety

Public Radiation Safety

Security

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page. Therefore, the [cover letters](#) to security inspection reports may be viewed.

Miscellaneous

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