

North Anna 2 1Q/2015 Plant Inspection Findings

Initiating Events

Significance: G Jun 30, 2014

Identified By: Self-Revealing

Item Type: FIN Finding

Unit 2 Manual Reactor Trip After Loss of Main Feedwater Pump

A self-revealing finding was identified for failure to follow procedure after a feedwater transient that resulted in a Unit 2 manual trip. Specifically, the licensee failed to use diverse or alternate indications, such as motor amps, feedwater pump discharge pressure, feedwater flow, or steam generator levels as required by both OP-AA-100, "Conduct of Operations," Revision 25, and OP-AA-1800, "Operator Fundamentals," Revision 7, after the loss of 'A' main feedwater pump and the 'C' main feedwater pump motor breaker closed 'red' light failed to light.

The inspectors determined that the failure of the licensee to use diverse or alternate indications, as required by plant procedures, when deciding to trip the Unit 2 reactor was a performance deficiency. The performance deficiency was more than minor because it was associated with the Initiating Events cornerstone attribute of human performance and adversely affected the associated cornerstone objective to limit the likelihood of events that upset plant stability. Specifically, the human error associated with not using diverse or alternate indications resulted in an unnecessary plant trip. Using IMC 0609, Attachment 4, Initial Characterization of Findings, issued June 19, 2012, the finding was determined to be of very low safety significance (Green) because it was a transient initiator, but did not contribute to both the likelihood of a reactor trip and the likelihood that mitigation equipment or functions would not be available. In addition, this finding involved the cross cutting area of human performance and the aspect of teamwork, H.4, because the licensee failed to communicate and coordinate actions when verifying the proper operation of the 'C' main feedwater pump after auto start. The licensee is tracking this issue in their corrective action system as Condition Report (CR) 538653. (Section 40A2.3)

Inspection Report# : [2014003](#) (*pdf*)

Mitigating Systems

Significance: G Jun 30, 2014

Identified By: Self-Revealing

Item Type: NCV Non-Cited Violation

Failure to Maintain the Diesel Driven Fire Pump

A self-revealing NCV was identified for the licensee's failure to meet the requirements of NAPS Renewed Operating License Conditions 2.D, and the approved FPP for NAPS, Units 1 and 2. Specifically, the licensee failed to maintain the diesel driven fire pump water pump with established procedures that incorporated the equipment manufacturer's recommended maintenance.

Failure to maintain the diesel-driven fire pump water pump with established procedures that incorporated the

equipment manufacturer's recommended maintenance is a performance deficiency. This finding was determined to be more than minor because it was associated with the reactor safety mitigating systems cornerstone attribute of protection against external events (i.e. fire), and it adversely affected the cornerstone objective of ensuring the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, the finding impacted the availability of the diesel driven fire pump which adversely impacted the fire protection programs defense-in-depth in the event of a fire. The finding was screened in accordance with NRC Inspection Manual Chapter (IMC) 0609, "Significance Determination Process" (SDP), dated June 2, 2011, Attachment 4, "Initial Characterization of Findings," dated June 19, 2012, which determined that an IMC 0609 Appendix F, "Fire Protection Significance Determination Process," dated September 20, 2013, review was required as the finding affected fire water supply. The inspectors evaluated this finding using the guidance in IMC 0609, Appendix F. The pump failed on November 8, 2013, and the last successful test was performed on November 7, 2013. The review determined that the unaffected motor driven fire pump was available to provide at least 50 percent of the required fire water capacity (flow at required pressure) and therefore the finding screened as very low safety significance (Green). The inspectors determined that there was no cross-cutting aspect associated with this finding because it was not reflective of current licensee performance. The violation was entered into the licensee's corrective action program (CAP) as CR532383. (Section 1R05)

Inspection Report# : [2014003](#) (*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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