North Anna 1
3Q/2013 Plant Inspection Findings

Initiating Events

Mitigating Systems

Significance: G Mar 31, 2013
Identified By: NRC
Item Type: NCV NonCited Violation
Failure to Ensure Opposite Unit's Service Water Pumps Were Free of Fire Damage for a Postulated Fire in Either Unit's ESWGR
An NRC-identified non-cited violation was identified for the licensee's failure to meet the requirements of North Anna Power Station (NAPS) Renewed Operating License Conditions 2.D, and the approved Fire Protection Program for Units 1 and 2. Specifically, the licensee failed to ensure that fire damage to cables associated with the opposite unit's service water (SW) pumps, located in each unit's emergency switchgear (ESWGR) room, would not prevent operation of the unaffected unit's SW pumps as described in Section 4.4.3.5 of the NAPS Appendix R Report. Postulated fire scenarios were identified in which the SW pumps for both units could be compromised due to a single fire in either unit's ESWGR room. The licensee had previously entered this issue in the NAPS corrective action program as condition report 500152 to evaluate this SW pump control circuit vulnerability and had implemented hourly roving fire watches in each unit's ESWGR room.

Failure to perform an adequate safe shutdown (SSD) analysis as required by the NAPS FPP 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 affected the cornerstone objective of ensuring the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. The finding had the potential to affect the ability to achieve post-fire SSD in the event of a fire in either unit's ESWGR. 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 February 28, 2005, review was required as the finding affected fire protection safe shutdown. The inspectors evaluated this finding using the guidance in IMC 0609, Appendix F.
The inspectors performed Phase 1 and Phase 2 SDP screening assessments using IMC
0609, Appendix F, Attachments 1 and 2, and were not able to screen out this issue in the SDP Phase 1 or Phase 2. A senior reactor analyst from the Region II office performed a Phase 3 SDP analysis to assess the significance of this finding. The analyst determined that this finding was of very low safety significance (i.e., Green) because the risk was mitigated by the availability of at least one SW pump and the fire growth scenarios were mitigated by the gaseous suppression system. The inspectors determined that there was no cross-cutting aspect associated with this finding because it was not reflective of current licensee performance. (Section 1R05.2)

Inspection Report# : 2013002 *(pdf)*

Significance: G Dec 14, 2012
Identified By: NRC
Item Type: NCV NonCited Violation
Emergency Lighting Not Installed as Required by 10 CFR 50 Appendix R Section III.J
An NRC identified non-cited violation of 10 CFR 50, Appendix R, Section III.J, and the North Anna Power Station (NAPS) approved Fire Protection Program, was identified for the licensee's failure to install fixed emergency lighting units (ELUs) in all areas where local operator manual actions (OMAs) were being performed to support post-fire safe shutdown (SSD). Specifically, a fixed ELU was not installed in the Unit 1 auxiliary building in the vicinity where an OMA to close valve 1-CC-757 was specified by fire contingency action (FCA) procedures for a fire in the main control room (MCR) or the Unit 1 emergency switchgear room (ESWGR). The licensee entered this issue in the corrective action program as condition reports 499353 and 500023.

The licensee's failure to comply with the requirements of 10 CFR 50, Appendix R, Section III.J, and the NAPS approved FPP, was a performance deficiency. The finding was more than minor because it was associated with the reactor safety Mitigating Systems cornerstone attribute of protection against external factors (i.e., fire), and it negatively affected the objective of ensuring the reliability and capability of systems that respond to initiating events. Specifically, the finding had the potential to affect the feasibility of performing the OMA required for SSD in the event of a fire in either the MCR or ESGR-1. Using IMC 0609, Appendix F, Fire Protection SDP Phase 1 Qualitative Screening Approach, Step 1.3, the inspectors concluded that the finding, given its low degradation rating, was of very low safety significance (Green) because the FCA procedures required the operators performing the SSD actions to carry a portable lantern, and the operators had a high likelihood of completing the tasks using the portable lanterns. The inspectors determined that no cross cutting aspect was applicable to this performance deficiency because this finding was not indicative of current licensee performance. (Section 1R05.08)

Inspection Report# : 2012012 *(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

Last modified : December 03, 2013