

Turkey Point 4

4Q/2007 Plant Inspection Findings

Initiating Events

Mitigating Systems

Significance:  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 (NCV) of 10 CFR 50.55a(g)(4) for the failure to perform periodic leakage testing of buried piping portions of the Intake Cooling Water system as required by Section XI of the ASME Code for the third 10-year Inservice Inspection interval for Units 3 and 4. The licensee entered this issue into their corrective action program for resolution.

This finding is more than minor because it affects the Equipment Performance attribute of the Mitigating Systems cornerstone objective of ensuring availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. This finding is of very low safety significance because it was not a design issue resulting in a loss of operability, did not represent an actual loss of a system's safety function, did not result in exceeding a technical specification (TS) allowed outage time, and did not affect external event mitigation. The inspectors determined that this finding had no cross-cutting aspect. (Section 1R08)

Inspection Report# : [2007004](#) (*pdf*)

Significance:  Sep 30, 2007

Identified By: NRC

Item Type: FIN Finding

Recurring Problems with Alternate Shutdown Communication Equipment

The inspectors identified a finding when the licensee did not identify and correct an adverse trend of recurring problems with the alternate shutdown communications system. When identified, the licensee entered the issue into the corrective actions program and initiated a review of reliability issues with the communications equipment.

The finding is more than minor because it affects the availability and reliability of the communications system used by plant operators to mitigate certain fire scenarios. The issue was of very low safety significance because an alternate communications system (radios) was available, if needed. The cause was related to the cross-cutting area of problem identification and resolution because the adverse trend of problems with alternate shutdown communications had not been identified nor corrected by the licensee commensurate with its safety significance. (IMC 305, P.1 (d)) (4OA2)

Inspection Report# : [2007004](#) (*pdf*)

Significance:  Sep 30, 2007

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

Failure to Appropriately Procure Replacement Parts Leads to Reactor Shutdown

A self-revealing NCV of 10 CFR 50, Appendix B, Criterion IV, Procurement Document Control, was identified for improper inserts having been procured and installed in the Unit 3 and Unit 4 rod position circuitry. The inserts were not qualified for the reactor environment and sequentially failed, causing loss of multiple rod position circuits on Unit 3 requiring reactor shutdown. When identified, the affected electrical connectors were replaced with qualified splices. The licensee entered this issue into their corrective action program for resolution.

The failure is more than minor because the reliability of the mitigating rod position indication system is affected. The finding was of very low safety significance because redundant measures of assuring plant shutdown and control using boration were available. The inspector determined that this finding had no cross-cutting aspect. (4OA3)

Inspection Report# : [2007004](#) (*pdf*)

Significance:  Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Maintain Design of Valves Important to Safety

The inspectors identified a non-cited violation of 10 CFR 50, Appendix B, Criterion XVI, Corrective Action, for failure of the licensee to promptly identify and correct the nonconformance of equipment important to safety, specifically the operation of air solenoids in the charging system outside the design maximum operating differential pressure (MOPD). When identified, the licensee scheduled repair/replacement of the solenoids.

The finding was more than minor because it affected the equipment performance attribute of the Mitigating Systems cornerstone objective to ensure reliability of systems that respond to initiating events to prevent undesirable consequences. The finding screened as Green using NRC Inspection Manual Chapter (MC) 0609, Appendix A, because it represented a design deficiency that had not been evaluated but did not result in any loss of function. The cause of the finding is related to the cross-cutting area of Human Performance, specifically Resources because the licensee did not minimize long-standing equipment issues and ensure maintenance backlogs were low enough to support safety, (MC 0305 aspect H.2(a)).

Inspection Report# : [2007003](#) (*pdf*)

Significance:  Jun 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Implement Design Controls in a Modification

The inspectors identified a non-cited violation of 10 CFR 50, Appendix B, Criterion V, Procedures, for failure of the licensee to implement design controls when a wooden and wire structure was installed in the Unit 4 480 volt switchgear room. When identified to the licensee, the structure was removed and the issue was entered into the corrective action program.

The finding was more than minor because the licensee did not complete an engineering evaluation of the modification and routine operator and management tours of the area did not identify the alteration as inappropriate. The finding screened as Green using NRC Inspection Manual Chapter 0609, Appendix A, because it represented a design or qualification deficiency that had not been evaluated but did not result in any loss of function. The cause of the finding is related to the cross-cutting area of Human Performance specifically Work Practices because the licensee did not assure proper documentation of activities (MC 0305 aspect H.4(a)).

Inspection Report# : [2007003](#) (*pdf*)

Significance:  Jun 08, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Initiate Condition Reports for Conditions Adverse to Quality as Required by Procedure

The inspectors identified a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion V, Instructions, Procedure, and Drawings. Specifically, the inspectors identified several conditions adverse to quality where the licensee failed to initiate condition reports as required by procedure. The licensee entered this issue into the corrective action program.

This finding is greater than minor because, if left uncorrected, the issue would become a more significant safety concern involving programmatic and equipment issues. In addition, the inspectors determined that the Mitigating Systems Cornerstone attribute of equipment performance to ensure the availability and reliability systems that respond to initiating events to prevent undesirable consequences was adversely affected. The inspectors determined that the finding was not suitable for SDP evaluation because the failure to initiate the condition reports did not directly result

in degraded or inoperable equipment. Therefore, this finding was reviewed by Regional Management, in accordance with IMC 0612 Section 05.04c, and determined to be of very low safety significance. The cause of the finding is related to the cross-cutting element of problem identification and resolution. [Section 4OA2.a(3)(I)]

Inspection Report# : [2007008](#) (*pdf*)

Significance:  Jun 08, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Corrective Actions Associated with Water Intrusion Trends Were Not Taken in a Timely Manner

The inspectors identified a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion XVI, Corrective Action. Specifically, the licensee failed to promptly correct a previously identified water intrusion trend which resulted in the failure of a safety-related component. The licensee entered this issue into the corrective action program.

This finding is more than minor because it is associated with the equipment performance attribute of the Mitigating Systems cornerstone and adversely affected the cornerstone objective of ensuring the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. The finding is of very low safety significance because the finding was not a design or qualification deficiency, and did not represent a loss of safety function because the redundant train was available. The cause of the finding is related to the cross-cutting element of problem identification and resolution. [Section 4OA2.a(3)(ii)]

Inspection Report# : [2007008](#) (*pdf*)

Significance:  Jun 08, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Prevent Recurring Scaffolding Installation Deficiencies

The inspectors identified a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion XVI, Corrective Action. Specifically, the licensee failed to implement effective corrective actions to prevent recurring deficiencies associated with the erection of scaffolding near safety-related equipment. The licensee entered this issue into the corrective action program.

This finding is more than minor because it is associated with the mitigating system cornerstone attributes of protection against external factors such as a seismic events, and equipment performance such as availability and reliability. The finding is of very low safety significance because the finding was not a design or qualification deficiency, did not represent a loss of safety function, and did not render equipment inoperable due to a seismic event. The cause of the finding is related to the cross-cutting element of problem identification and resolution. [Section 4OA2.a(3)(iii)]

Inspection Report# : [2007008](#) (*pdf*)

Barrier Integrity

Emergency Preparedness

Occupational Radiation Safety

Public Radiation Safety

Significance:  Sep 30, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

Failure to Include an Accurate Emergency Response Telephone Number on Radioactive Waste Shipping Papers

The inspectors identified an NCV of 10 CFR Part 71.5(a)(1)(v) for the failure of the licensee to follow Department of Transportation (DOT) regulations found in 49 CFR Part 172.201(d) which require shipping papers associated with the transport of radioactive material to contain an emergency response telephone number. All radioactive waste shipments made from November 2006 until September 2007 had an incorrect emergency response phone number listed on the official shipping papers. The licensee entered the issue into the corrective action program under condition report (CR) Number 2007-28133 and intended to correct future shipping papers.

The finding is more than minor because it is associated with the Public Radiation Safety cornerstone attribute and adversely affects the cornerstone objective of ensuring adequate protection of public health and safety from exposure to radioactive materials released into the public domain. Based on the facts that emergency response recommendations required by 49 CFR Part 172.602 were included in the paperwork package for each shipment and that there were no accidents on public roadways that would have required the use of the emergency response phone number, the finding was determined to be of very low safety significance (Green). This finding has a crosscutting area of human performance with work practices aspect (IMC 305, H.4 (a)), because the incorrect emergency response phone number was the result of a transposition error which was not prevented by the use of self and peer checking human error prevention techniques. (Section 2PS2)

Inspection Report# : [2007004](#) (*pdf*)

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

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