

Seabrook 1

4Q/2015 Plant Inspection Findings

Initiating Events

Mitigating Systems

Barrier Integrity

Significance:  Jun 30, 2015

Identified By: NRC

Item Type: NCV Non-Cited Violation

Inadequate Identification of Structural Deformation and Impacts on Associated Equipment

The inspectors identified a Green NCV of 10 CFR, Appendix B, Criterion XVI, “Corrective Action,” because NextEra did not ensure that degraded conditions were identified and entered into the corrective action process. Specifically, the inspectors identified multiple instances of material and equipment degradation resulting from deformation of the containment enclosure building (CEB). NextEra entered the condition into their corrective action program (CAP) (AR 02014325) and initiated a root cause evaluation to evaluate the aggregate cause of the non-conforming condition. Additionally, NextEra initiated immediate and prompt operability determinations (PODs), when appropriate, for each of the individually identified material and equipment degraded conditions.

This performance deficiency was considered to be more than minor because, if left uncorrected, the performance deficiency had the potential to lead to a more significant safety concern if CEB deformation continued to effect plant safety-related structure, system, and components (SSCs) without appropriate identification and evaluation by NextEra personnel. The finding was evaluated in accordance with IMC 0609, Appendix A, “The Significance Determination Process for Findings At-Power,” and determined to be of very low safety significance (Green) since it did not represent an actual open pathway in the physical integrity of reactor containment, containment isolation systems, or heat removal systems. In addition, the structures and components remained capable of performing their safety function. The finding is related to the cross-cutting area of Problem Identification and Resolution – Identification, because NextEra did not implement a CAP with a low threshold for identifying issues. Specifically, NextEra failed to identify multiple instances of material and equipment degradation that would have led to the identification of the CEB non-conforming condition [P.1].

Inspection Report# : [2015002](#) (*pdf*)

Significance:  Jun 30, 2015

Identified By: NRC

Item Type: NCV Non-Cited Violation

Inadequate Characterization of Prompt Operability Determination of the Containment Enclosure Building

The inspectors identified a Green NCV of 10 CFR 50, Appendix B, Criterion V, “Instructions, Procedures, and Drawings,” because NextEra did not perform an adequate POD of a safety-related plant structure. Specifically,

NextEra did not appropriately categorize the operability of the CEB, a safety-related seismic Category I structure, in accordance with EN-AA-203-1001, Operability Determinations/Functionality Assessments, Revision 19, after identification of a non-conforming condition affecting the structure. NextEra entered the condition into their CAP (AR 02053991), re-characterized the operability of the CEB as “Operable but Degraded,” and established compensatory measures to monitor for additional structural displacement by performing routine seismic seal gap measurements.

This performance deficiency was considered to be more than minor because it affected the design control attribute of the Barrier Integrity cornerstone and its objective to provide reasonable assurance that physical design barriers protect the public from radionuclide releases caused by accidents or events. Specifically, the inspectors determined that the operational capability of the CEB was affected in that compensatory measures were not identified and established to monitor for any further degradation of the non-conforming condition. The finding was evaluated in accordance with IMC 0609, Appendix A, “The Significance Determination Process for Findings At-Power,” and determined to be of very low safety significance (Green) since it did not represent an actual open pathway in the physical integrity of reactor containment, containment isolation systems, or heat removal systems. In addition, the affected structures and components remained capable of performing their safety function. The finding is related to the cross-cutting area of Problem Identification and Resolution – Evaluation, because NextEra did not thoroughly evaluate an issue to ensure that resolutions address causes and extent of condition commensurate with their safety significance. Specifically, NextEra did not appropriately characterize the CEB non-conforming condition and establish compensatory measures that were commensurate with the safety significance of the condition [P.2].

Inspection Report# : [2015002](#) (*pdf*)

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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