

April 28, 2016

## **U.S. Nuclear Regulatory Commission Public Meeting Summary**

**Title:** Public Meeting with NextEra Energy Seabrook, LLC Regarding Aging Management of Alkali-Silica Reaction Pertaining to the License Renewal of Seabrook Station, Unit 1.

**Meeting Identifier:** 20160552

**Date of Meeting:** Thursday, April 28, 2016

**Location:** NRC One White Flint North, Room T-8E8  
11555 Rockville Pike  
Rockville, MD

**Type of Meeting:** Category 1

### **Purpose of the Meeting:**

The purpose of this public meeting was for NextEra Energy Seabrook, LLC (NextEra) to discuss their plan to address the U.S. Nuclear Regulatory Commission (NRC) staff's concerns related to the aging management of alkali-silica reaction (ASR) for Seabrook Station Unit 1 (Seabrook) license renewal.

### **General Details:**

The NRC held a meeting on April 28, 2016, from 9:00 a.m. - 12:00 a.m. EST. The meeting began with an introduction of all attendees and a review of meeting ground rules for category 1 meetings. Jane Marshall, Deputy Director of the Division of License Renewal, provided opening remarks emphasizing the importance of achieving a clear technical understanding between NextEra and the NRC staff regarding the ASR issues related to license renewal and the path forward for the aging management program (AMP) for ASR.

NextEra and the staff engaged in a technical discussion regarding NextEra's plan to update the ASR Monitoring Program AMP to address the staff's concerns. Following the discussion, the meeting was opened for the public to interact with NRC staff.

Approximately 27 people participated in the meeting. No members of the public attended the meeting in person or identified themselves during the teleconference. Meeting participants included representatives from NextEra Energy Seabrook, LLC, NextEra corporate, MPR Associates, and the NRC staff.

### **Summary of Presentation (Meeting):**

The NRC project manager for the review of the Seabrook license renewal application provided a brief overview of the generic license renewal review process, the current status of the review for Seabrook, and the open item related to ASR. NextEra then

presented their prepared slides as provided in the attachment (ML16146A200). Significant technical points of discussion are listed below:

- NextEra stated that all MPR/University of Texas (UT) test programs are complete, and the Owner's Acceptance Review of the test reports is in progress.
- NextEra stated that while Seabrook-specific research performed by UT was complete, the AMP would be updated to include provisions to evaluate and incorporate industry-wide research and operating experience as they become available. NextEra also stated that the ASR Monitoring Program AMP will be submitted as complete once UT research results are integrated, and it is not dependent upon ongoing industry research. NextEra agreed to provide a thorough description in the final safety analysis report (FSAR) supplement and the AMP operating experience section of how future industry research would be incorporated into the program, as well as a commitment to incorporate this research.
- NextEra agreed to include within the AMP a plan to provide in-plant corroboration of the methodology in MPR-4153 to correlate large-scale test results with the performance of ASR-affected Seabrook structures, with a description of the methodology used.
- The staff requested clarification on whether misaligned or distorted equipment is the parameter monitored to provide indications that cracking leading to building deformation is occurring. NextEra stated that misaligned or distorted equipment is only used as an indicator, and that the actual parameters monitored in accordance with the AMP are the structures themselves, via measurements from combined cracking indexing, extensometers, etc. NextEra agreed to clearly indicate in the AMP what parameters will be monitored, and the distinction between structural and non-structural components.
- The staff stated that it expects that the methodology derived from the Texas testing for use in the ASR AMP will be validated (corroborated) by data and observations from Seabrook structures. NextEra stated that in addition to the data from Texas testing, other data needed to support the ASR AMP will be presented in the revised ASR AMP with descriptions relative to either (a) microcracking that was described in the 2012 SER with open items or (b) global manifestations (macro-cracking or building deformation) that were identified in 2015, to avoid inconsistencies in technical descriptions.

#### **Public Participation Themes:**

There were no comments or questions during the public interaction period. No members of the public attended the meeting in person or participated in the teleconference.

#### **Next Step:**

NextEra plans to have a license amendment request pre-application meeting on ASR during the month of June 2016. NextEra plans to submit the revised ASR Monitoring Program AMP in July 2016.

**Attachments:**

- Meeting description and agenda – ML16109A004
- Attendance List – ML16146A193
- Seabrook presentation – ML16146A200

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**ADAMS Accession No.: ML16146A176**

**\*concurred via email**

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