

## James, Lois

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**From:** James, Lois  
**Sent:** Monday, June 05, 2017 1:01 PM  
**To:** 'Eric.McCartney@nexteraenergy.com'  
**Cc:** James, Lois; Bloom, Steven; Rikhoff, Jeffrey; Ronewicz, Lynn; Poole, Justin; Danna, James; McIntyre, David; Weil, Jenny; Dacus, Eugene; Harris, Brian; Ghosh, Anita; Wachutka, Jeremy; Gray, Mel; Bower, Fred; Cataldo, Paul; Meier, Peter; Barkley, Richard; Vadella, Robert; Draxton, Mark; Tift, Doug; Sheehan, Neil; Screnci, Diane; 'Eric.McCartney@nexteraenergy.com'; 'Kenneth.J.Browne@nexteraenergy.com'; 'Richard.Turcotte@nexteraenergy.com'; 'Edward.Carley@nexteraenergy.com'; 'Christine.Thomas@nexteraenergy.com'; Wittick, Brian; Thomas, George; Lehman, Bryce; Rogers, Billy; Quichocho, Jessie; Wilson, George; Benner, Eric; Cook, William; Pires, Jose; RidsNrrDlr Resource; Edmonds, Yvonne  
**Subject:** SUMMARY OF MEETING HELD ON MAY 9, 2017, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND NEXTERA ENERGY SEABROOK, LLC, REPRESENTATIVES TO DISCUSS THE SEABROOK STATION, LICENSE RENEWAL APPLICATION (CAC NO. ME4028)  
**Attachments:** Summary of May 9, 2017, Meeting between NRC and NextEra re Seabrook ASR - enclosure 1.pdf; Summary of May 9, 2017, Meeting between NRC and NextEra re Seabrook ASR - enclosure 2.pdf

LICENSEE: NextEra Energy Seabrook, LLC

FACILITY: Seabrook Station

SUBJECT: SUMMARY OF MEETING HELD ON MAY 9, 2017, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND NEXTERA ENERGY SEABROOK, LLC, REPRESENTATIVES TO DISCUSS THE SEABROOK STATION, UNIT 1, LICENSE RENEWAL APPLICATION (CAC NO. ME4028)

On May 9, 2017, the U.S. Nuclear Regulatory Commission staff held a Category 1 public meeting to discuss the license renewal application (LRA) for the Seabrook Station, Unit 1 (Seabrook). The focus of the meeting was to discuss the status of NextEra's building deformation analyses related to concrete alkali-silica reaction, the status of the NRC staff's safety review of the Seabrook LRA, and the potential to proceed with completing the review of the license renewal application separate from NextEra's license amendment request, "Seabrook Station, License Amendment Request 16-03, Revise Current Licensing Basis to Adopt a Methodology for the Analysis of Seismic Category I Structures with Concrete Affected by Alkali-Silica Reaction."

The meeting notice and agenda, dated April 21, 2017, are available in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML17111A805. The staff and applicant presented informational slides at the meeting (ADAMS Accession Nos. ML17129A394 and ML17129A384, respectfully). A list of attendees is provided in Enclosure 1 and the summary of the discussion is provided in Enclosure 2.

No regulatory decisions or commitments were made at the meeting.

Please direct any inquiries to me at 301-415-3306 or [Lois.James@nrc.gov](mailto:Lois.James@nrc.gov).

Lois M. James, Senior Project Manager  
Projects Management and Guidance Branch  
Division of License Renewal

Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosures:

1. Attendance List
2. Meeting Summary

**ADAMS Accession No.: ML17137A029**

**\*concurring via email**

OFFICE	LA:RPGB:DLR	PM:RPGB:DLR	ESEB:DE	ESEB:DE
NAME	YEdmonds*	LJames*	ABuford*	GThomas*
DATE	6/5/2017	5/31/2017	6/1/2017	6/1/2017
OFFICE	BC:RPGB:DLR	PM:RPGB:DLR		
NAME	SSheldon*	LJames		
DATE	6/1/2017	6/5/2017		

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MEETING BETWEEN THE NRC STAFF AND NEXTERA ENERGY SEABROOK, LLC  
SEABROOK STATION LICENSE RENEWAL APPLICATION  
ROCKVILLE, MARYLAND

MEETING ATTENDANCE LIST  
MAY 9, 2017

PARTICIPANTS

AFFILIATIONS

Bryce Lehman	Division of Engineering (DE), Office of Nuclear Reactor Regulation (NRR), U.S. Nuclear Regulatory Commission (NRC)
Jessie Quichocho	DE, NRR, NRC
Angela Buford	Division of license Renewal (DLR), NRR, NRC (has been reorganized to DE, NRR, NRC)
Bill Rogers	DLR, NRR, NRC
Brian Wittick	DLR, NRR, NRC (has been reorganized to DE, NRR, NRC)
George Thomas	DLR, NRR, NRC (has been reorganized to DE, NRR, NRC)
George Wilson	DLR, NRR, NRC
Lois M. James	DLR, NRR, NRC
Steven Bloom	DLR, NRR, NRC
Eric Benner	Division of Operating Reactor Licensing (DORL), NRR, NRC
James Danna	DORL, NRR, NRC
Justin Poole	DORL, NRR, NRC
Brian Harris	Office of General Counsel, NRC
Fred Bower	Region I, NRC
Bill Cook	Region I, NRC
Mel Gray	Region I, NRC
Jose Pires	Office of Nuclear Regulatory Research, NRR
John Simons	MPR Associates, Inc
William Blair	NextEra Energy
Brian Brown	NextEra Energy
Edward Carley	NextEra Energy
Ken Browne	NextEra Energy
Larry Nicholson	NextEra Energy

PARTICIPANTS

Michael K. Collins  
Steven Hamrick  
Ryan Mones  
Said Bolourchi

AFFILIATIONS

NextEra Energy  
NextEra Energy  
Simpson Gumpertz, & Heger (SGH)  
SGH

MEETING BETWEEN THE NRC STAFF AND NEXTERA ENERGY SEABROOK, LLC  
SEABROOK STATION, UNIT 1  
LICENSE RENEWAL APPLICATION  
ROCKVILLE, MARYLAND

MEETING SUMMARY

MAY 9, 2017

After introductions, NextEra Energy Seabrook, LLC (NextEra or applicant), began the discussion by providing the status of the large-scale testing programs (LSTP), related to the concrete alkali-silica reaction (ASR) issue, conducted by MPR Associates, Inc (MPR) and Ferguson Structural Engineering Lab (FSEL) at the University of Texas at Austin. NextEra stated that the testing was completed in 2015. Beginning in April 2016, NextEra completed summary reports on the Test Programs, updated procedures and methodologies, and incorporated the results into the Structural Monitoring Program (SMP).

NextEra then described the Building Deformation analyses currently in progress. The purpose of these analyses is to demonstrate compliance with original design codes considering the impact of ASR on structural capacity and demand due to building deformation from ASR expansion. NextEra explained that the Building Deformation analyses should develop the monitoring parameters, their threshold limits, and inspection frequency for each structure, which will be the basis for the plant-specific aging management program (AMP). NextEra concluded the building deformation discussion by providing the schedule of completion. NextEra does not plan to complete the building deformation evaluation for the last impacted structure until the second quarter of calendar year 2018.

After NextEra's presentation, the NRC staff reviewed the outstanding issues related to the safety review of the Seabrook Station, Unit 1 (Seabrook), license renewal application (LRA). For the review of License Renewal Interim Staff (LR-ISG)-2016-01, "Changes to Aging Management Guidance for Various Steam Generator Components," the staff issued Requests for Additional Information (RAIs) on March 16, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17066A488) and NextEra's response is due May 19, 2017, which were submitted on May 30, 2017. For the resolution of questions regarding the Bolting Integrity AMP, the staff stated that it would issue the RAI by May 19, 2017, which was completed on May 25, 2017. Finally, regarding ASR, the NRC staff discussed that it may need an audit or additional RAIs once NextEra completes the Building Deformation analyses and factor the results into the LRA AMPs.

The last topic on the agenda was the potential to proceed with completing the review of the license renewal application separate from NextEra's license amendment request, "Seabrook Station, License Amendment Request 16-03, Revise Current Licensing Basis to Adopt a Methodology for the Analysis of Seismic Category I Structures with Concrete Affected by Alkali-Silica Reaction." NextEra stated that they do not believe that the license amendment request has an impact on completion of the safety review of the LRA. Specifically, NextEra stated that changes to the current licensing basis from the license amendment request will apply during the period of extended operation; therefore, NRC approval of the ASR evaluation methodology should be completed under the current licensing basis (Title 10 of the *Code of Federal Regulation* (10 CFR) Part 50, "Domestic licensing of production and utilization facilities") and should not impact or delay the completion of the license renewal review under 10 CFR Part 54,

“Requirements for renewal of operating licenses for nuclear power plants.” NextEra further stated that they did not believe a license condition or commitment was necessary.

The staff noted that the ASR Monitoring Program is based on the testing completed at FSEL. This testing program is unique, has not been reviewed and accepted by a consensus professional organization, has not been independently peer reviewed, and has not been reviewed and approved by the NRC. Therefore, in order for the ASR Monitoring Program to be found acceptable and proceed with the review of the LRA, the staff needs to review and accept the testing program and methodology. In addition, the staff stated that its evaluation of the adequacy of an AMP to manage certain aging effects for particular structures and components is based on its review of the 10 program elements, one of which is Parameters Monitored or Inspected. The parameters monitored or inspected by the Building Deformation Program is unique to each structure and is based, at least in part, on the testing program conducted by FSEL, meaning the staff needs to have confidence in the testing program and methodology through staff review and approval. Therefore, assuming there was no license amendment request, the staff would still need to evaluate the methodology in order to complete the review of the LRA.

NextEra and the NRC staff also discussed the potential of a license condition. The NRC staff stated that it would review any license condition that NextEra proposes but indicated that any potential license condition would need to comply with the Commission’s regulations and orders on the purpose and scope.

Finally, NextEra and NRC staff discussed the following RAIs that were issued on March 29, 2017 (ADAMS Accession No. ML17088A614).

- RAI B.2.1.31A-A1-1 – ASRMP: Consideration of In-plane and Through-Thickness Expansion in Acceptance Criteria for Effect on Structural Limit States,
- RAI B.2.1.31A-A4-2 – ASRMP: Corroboration of Modulus – Expansion Correlation from FSEL Testing, and
- RAI B.2.1.31B-B2-1 – “Parameters Monitored or Inspected” for Building Deformation Monitoring Program.

The NRC staff reiterated the importance of timely response to any requests for information with respect to either the LAR or the LRA to ensure timely completion of the NRC reviews.

No regulatory decisions or commitments were made at the meeting. The staff will review the information submitted by NextEra as part of the LRA.