



May 10, 2012

SBK-L-12104

Docket No. 50-443

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

Seabrook Station  
Supplement to Actions for Resolution of Alkali Silica Reaction (ASR) Issues

Reference:

1. Public Meeting between NextEra Energy Seabrook, LLC (NextEra Energy Seabrook) and the U.S. Nuclear Regulatory Commission, April 23, 2012 (ML121070659).
2. NextEra Energy Seabrook letter SBK-L-12098, "Actions for Resolution of Alkali Silica Reaction (ASR) Issues," to NRC, dated May 3, 2012.

During the above referenced meeting, NextEra Energy Seabrook committed to the U.S. Nuclear Regulatory Commission (NRC) to provide a list of actions it is taking to resolve ASR issues at Seabrook Station. NextEra Energy Seabrook provided the list of actions in Reference 2. In a subsequent conference call with the NRC on May 7, 2012, NextEra Energy Seabrook committed to providing supplementary information regarding the list of actions.

NextEra Energy Seabrook will take the following actions to resolve ASR at Seabrook Station:

1. Revise the prompt operability determination (POD) associated with AR581434, 'Reduced Concrete Properties Below Grade in "B" Electrical Tunnel Exterior Wall,' by May 25, 2012. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
2. Revise the POD associated with AR1664399, 'Reduced Concrete Modulus of Elasticity Below Grade in Containment Enclosure Building, RHR Equipment Vaults, EFW Pump House, and Diesel Generator Fuel Oil Storage Rooms,' by June 30, 2012. The expanded scope buildings will be included in this POD. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.

3. Complete short term aggregate expansion testing (ASTM C 1260 Mortar Bar Expansion Test) by June 30, 2012. Results will be available for NRC review approximately 30 days after testing is complete.
4. Complete long term aggregate expansion testing (ASTM C 1293 Concrete Prism Test) by June 30, 2013. Results will be available for NRC review approximately 30 days after testing is complete.
5. Submit the root cause for the organizational causes associated with the occurrence of ASR at Seabrook Station and related corrective actions by May 25, 2012.
6. Submit the License Renewal Aging Management Program for ASR-affected structures by May 25, 2012.
7. Submit the evaluation, "Impact of ASR on Concrete Structures and Attachments," (Foreign Print 100716) by May 25, 2012.
8. Submit the corrective action plan for the continued assessment of ASR in concrete structures at Seabrook Station including development of remedial actions to mitigate the affects of ASR, where warranted, by June 8, 2012.
9. Submit the technical details of the testing planned at the contracted research and development facility by June 30, 2012.
10. Update the Maintenance Rule Structures Monitoring Program to include monitoring requirements for selected locations in areas that exhibit ASR by July 15, 2012. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
11. Perform six-month interval crack measurements and crack indexing at 20 locations in areas that exhibit the highest crack indices by July 15, 2012. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action. Crack measurement will be performed at six-month intervals until a reliable trend of ASR progression is established.
12. Complete anchor test program by December 31, 2012. Results will be available for NRC review approximately 30 days after testing is complete.

The dates identified above reflect NextEra's current plans and are subject to change based upon testing conditions and other considerations. In the event that a date changes, NextEra will notify the NRC in writing.

Regulatory commitments are listed in the attachment to this letter.

If you have any questions regarding this correspondence, please contact Mr. Michael O'Keefe,  
Licensing Manager, at (603) 773-7745.

Sincerely,

NextEra Energy Seabrook, LLC



---

Paul O. Freeman  
Site Vice President

cc:

W.M. Dean,	NRC Region I Administrator
J. G. Lamb,	NRC Project Manager, Project Directorate I-2
W. J. Raymond,	NRC Resident Inspector
A.D. Cunanan,	NRC Project Manager, License Renewal
M. Wentzel,	NRC Project Manager, License Renewal

Mr. Christopher M. Pope  
Director Homeland Security and Emergency Management  
New Hampshire Department of Safety  
Division of Homeland Security and Emergency Management  
Bureau of Emergency Management  
33 Hazen Drive  
Concord, NH 03305

John Giarrusso, Jr., Nuclear Preparedness Manager  
The Commonwealth of Massachusetts  
Emergency Management Agency  
400 Worcester Road  
Framingham, MA 01702-5399

**Attachment to SBK-L-12104**  
**List of Regulatory Commitments**

Commitment Number	Commitment	Completion Date
SBK-L-12098-01	Revise the prompt operability determination (POD) associated with AR581434, 'Reduced Concrete Properties Below Grade in "B" Electrical Tunnel Exterior Wall.' NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.	May 25, 2012.
SBK-L-12098-02	Revise the POD associated with AR1664399, 'Reduced Concrete Modulus of Elasticity Below Grade in Containment Enclosure Building, RHR Equipment Vaults, EFW Pump House, and Diesel Generator Fuel Oil Storage Rooms.' The expanded scope buildings will be included in this POD. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.	June 30, 2012.
SBK-L-12098-03	Complete short term aggregate expansion testing (ASTM C 1260 Mortar Bar Expansion Test). Results will be available for NRC review approximately 30 days after testing is complete.	June 30, 2012.
SBK-L-12098-04	Complete long term aggregate expansion testing (ASTM C 1293 Concrete Prism Test). Results will be available for NRC review approximately 30 days after testing is complete.	June 30, 2012.
SBK-L-12098-05	Submit the root cause for the organizational causes associated with the occurrence of ASR at Seabrook Station and related corrective actions.	May 25, 2012.
SBK-L-12098-06	Submit the License Renewal Aging Management Program for ASR-affected structures.	May 25, 2012.

<b>Commitment Number</b>	<b>Commitment</b>	<b>Completion Date</b>
SBK-L-12098-07	Submit the evaluation, "Impact of ASR on Concrete Structures and Attachments," (Foreign Print 100716).	May 25, 2012.
SBK-L-12098-08	Submit the corrective action plan for the continued assessment of ASR in concrete structures at Seabrook Station including development of remedial actions to mitigate the affects of ASR, where warranted.	June 8, 2012.
SBK-L-12098-09	Submit the technical details of the testing planned at the contracted research and development facility.	June 30, 2012.
SBK-L-12098-10	Update the Maintenance Rule Structures Monitoring Program to include monitoring requirements for selected locations in areas that exhibit ASR. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.	July 15, 2012.
SBK-L-12098-11	Perform six-month interval crack measurements and crack indexing at 20 locations in areas that exhibit the highest crack indices. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action. Crack measurement will be performed at six-month intervals until a reliable trend of ASR progression is established.	July 15, 2012.
SBK-L-12098-12	Complete anchor test program. Results will be available for NRC review approximately 30 days after testing is complete.	December 31, 2012.