



May 3, 2012

SBK-L- 12098

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**  
**Actions for Resolution of Alkali Silica Reaction (ASR) Issues**

**Reference:**

1. Public Meeting between NextEra Energy Seabrook and the U.S. Nuclear Regulatory Commission, April 23, 2012 (ML121070659).

During the above referenced meeting, NextEra Energy Seabrook, LLC (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 will take the following action 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 June 30, 2012.
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.
3. Complete short term aggregate expansion testing (ASTM C 1260 Mortar Bar Expansion Test) by June 30 2012. Results will be available to the NRC 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 to the NRC approximately 30 days after testing is complete.
5. Submit the root cause and corrective actions for the occurrence of ASR at Seabrook Station by May 25, 2012.

6. Submit the License Renewal Aging Management Program for ASR-affected structures by May 25, 2012.
7. Submit the evaluation of the impact of ASR on concrete structures and attachments at Seabrook Station by May 25, 2012.
8. Submit an ASR integrated corrective action plan 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.
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.
12. Complete anchor test program by December 31, 2012.

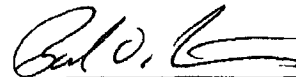
The dates identified above reflect NextEra's current plans and are subject to change based upon testing conditions and other considerations. In the event that a date changes, NextEra will notify the NRC in writing.

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

United States Nuclear Regulatory Commission  
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cc:

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**Attachment to SBK-L-12098**  
**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.'	June 30, 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.'	June 30, 2012.
SBK-L-12098-03	Complete short term aggregate expansion testing (ASTM C 1260 Mortar Bar Expansion Test).	June 30 2012. Results will be available to the NRC approximately 30 days after testing is complete.
SBK-L-12098-04	Complete long term aggregate expansion testing (ASTM C 1293 Concrete Prism Test).	June 30 2012. Results will be available to the NRC approximately 30 days after testing is complete.
SBK-L-12098-05	Submit the root cause and corrective actions for the occurrence of ASR at Seabrook Station.	May 25, 2012.
SBK-L-12098-06	Submit the License Renewal Aging Management Program for ASR-affected structures.	May 25, 2012.
SBK-L-12098-07	Submit the evaluation of the impact of ASR on concrete structures and attachments at Seabrook Station.	May 25, 2012.

<b>Commitment Number</b>	<b>Commitment</b>	<b>Completion Date</b>
SBK-L-12098-08	Submit an ASR integrated corrective action plan.	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.	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.	July 15, 2012.
SBK-L-12098-12	Complete anchor test program.	December 31, 2012.