



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 Renaissance Boulevard  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

January 14, 2013

CAL No. 1-2012-002 (Revision 1)

Mr. Kevin Walsh  
Site Vice President, North Region  
Seabrook Nuclear Power Plant  
NextEra Energy Seabrook, LLC  
c/o Mr. Michael O'Keefe  
P.O. Box 300  
Seabrook, NH 03874

**SUBJECT: REVISION TO CONFIRMATORY ACTION LETTER, SEABROOK STATION,  
UNIT 1 - INFORMATION RELATED TO CONCRETE DEGRADATION ISSUES**

Dear Mr. Walsh:

This letter confirms receipt of your letter of December 13, 2012, related to the NRC Confirmatory Action Letter (CAL) issued to NextEra Energy Seabrook, LLC (NextEra) on May 16, 2012 (ADAMS Accession Number ML12125A172). The CAL confirmed actions planned to be taken by NextEra in regard to the degradation of concrete in certain structures due to an Alkali-Silica Reaction (ASR). In the December 13, 2012, letter, you requested changes to two of the commitments (CAL Items Nos. 7 and 11). We accept your proposed changes as discussed below:

CAL Item No. 7 - You requested the deletion of this commitment, which required that NextEra conduct a long term aggregate expansion test (ASTM C 1293 Concrete Prism Testing) by June 30, 2013. Your letter states that the Mortar Bar Expansion testing conducted in accordance with CAL Item No. 6 identified that the coarse aggregates contain sufficient reactive silica for the ASR reaction and expansion to continue long-term under existing environmental conditions. Therefore, the results of the Mortar Bar Expansion Testing have obviated the need to conduct additional aggregate expansion testing. Further information regarding this issue is provided in NRC Inspection Report No. 05000443/2012009, Section 5 (ADAMS Accession Number ML12338A283). Accordingly, the NRC has concluded that NextEra's commitment to complete long term aggregate expansion testing by June 30, 2013, may be deleted.

CAL Item No. 11 - You requested that the NRC change this commitment from completing the anchor test program by December 31, 2012, to "submit the technical details of the anchor test program planned at the contracted research and development facility by February 28, 2013." You requested this change because the anchor testing program, while in progress, would not be complete by December 31, 2012. NextEra's committed date for completing the anchor testing was based on the best available projected test schedule in May 2012, and did not fully anticipate all the complexities involved in completing the test program. NextEra has completed some limited testing of anchor performance of ASR-affected concrete as described in

K. Walsh

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Section 2.3.6, of NRC Inspection Report No. 05000443/2012009. These tests results demonstrated satisfactory performance of the anchors and were used to support NextEra's prompt operability evaluation. Based on our findings regarding anchor performance, the NRC finds the requested commitment change acceptable.

The original Confirmatory Action Letter 2012-002 issued May 2012 remains in effect except as modified for CAL Items 7 and 11, above.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any), will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). To the extent possible, your response, if you choose to provide one, should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the public without redaction. If proprietary information is necessary to provide an acceptable response, then please provide a bracketed copy of your response that identifies the information that should be protected and a redacted copy of your response that deletes such information. If you request withholding of such material, you must specifically identify the portions of your response that you seek to have withheld and provide in detail the bases for your claim of withholding (e.g., explain why the disclosure of information will create an unwarranted invasion of personal privacy or provide the information required by 10 CFR 2.390(b) to support a request for withholding confidential commercial or financial information). If safeguards information is necessary to provide an acceptable response, please provide the level of protection described in 10 CFR 73.21.

If you have any questions, please contact Richard J. Conte at (610) 337-5183 or e-mail [richard.conte@nrc.gov](mailto:richard.conte@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'W M Dean', with a long horizontal flourish extending to the right.

William M. Dean  
Regional Administrator

Docket No.: 50-443  
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Sincerely,

*/RA/*

William M. Dean  
Regional Administrator

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\*see previous concurrence

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