



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

July 24, 2012

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

SUBJECT: SEABROOK STATION, UNIT NO. 1 – REQUEST FOR ADDITIONAL  
INFORMATION REGARDING LICENSE AMENDMENT REQUEST 11-04,  
CHANGES TO TECHNICAL SPECIFICATIONS FOR NEW AND SPENT FUEL  
STORAGE (TAC NO. ME8688)

Dear Mr. Walsh:

By letter dated January 30, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12038A036), as supplemented by letter dated May 10, 2012 (ADAMS Accession No. ML12136A126), NextEra Energy Seabrook, LLC (NextEra) submitted license amendment request (LAR) 11-04 for Seabrook Station, Unit 1. The proposed change revises the Technical Specifications (TSs) for new and spent fuel storage, as a result of the new criticality analyses for the new fuel vault (NFV) and the spent fuel pool (SFP).

The proposed amendment would revise the TSs to: (1) reflect elimination of the need to credit Boraflex neutron absorbing material for reactivity control in the SFP; (2) credit soluble boron, burnup, cooling time, peripheral leakage, and rod cluster control assemblies within the storage racks to maintain SFP reactivity within the effective neutron multiplication factor ( $k_{eff}$ ) limits of Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.68(b)(4); and (3) revise the requirements for fuel storage within the NFV.

The U.S. Nuclear Regulatory Commission (NRC) staff has determined that additional information is required to complete its review. The NRC staff's request for additional information (RAI) is contained in the enclosed RAI. A draft of these questions was previously sent to Mr. Gary Kilby of your staff with an opportunity to have a teleconference to ensure that the licensee understood the questions and their regulatory basis, as well as to verify that the information was not previously docketed. A conference call was held on July 11, 2012, and Mr. Kilby agreed that NextEra would respond to the RAI within 60 days of the date of this letter. Please note that if you do not respond to the RAI within 60 days, the NRC staff may reject your request for relief under the provisions of Title 10 of the *Code of Federal Regulations*, Section 2.108, "Denial of application for failure to supply information."



K. Walsh

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If you have any questions, please contact me at (301) 415-3100.

Sincerely,

A handwritten signature in black ink, appearing to read "John G. Lamb". The signature is fluid and cursive, with the first name "John" being the most prominent.

John G. Lamb, Senior Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-443

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REQUEST FOR ADDITIONAL INFORMATION  
REGARDING LICENSE AMENDMENT REQUEST 11-04,  
CHANGES TO TECHNICAL SPECIFICATIONS  
FOR NEW AND SPENT FUEL STORAGE  
NEXTERA ENERGY SEABROOK, LLC  
SEABROOK STATION, UNIT 1  
DOCKET NUMBER 50-443

1.0 SCOPE

By letter dated January 30, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12038A036), as supplemented by letter dated May 10, 2012 (ADAMS Accession No. ML12136A126), NextEra Energy Seabrook, LLC (NextEra) submitted a license amendment request (LAR) 11-04 for Seabrook Station, Unit 1. The proposed change revises the Technical Specifications (TSs) for new and spent fuel storage as the result of a new criticality analyses for the new fuel vault (NFV) and the spent fuel pool (SFP).

The proposed amendment would revise TSs to: (1) reflect elimination of the need to credit Boraflex neutron absorbing material for reactivity control in the SFP; (2) credit soluble boron, burnup, cooling time, peripheral leakage, and rod cluster control assemblies within the storage racks to maintain SFP reactivity within the effective neutron multiplication factor ( $k_{eff}$ ) limits of Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.68(b)(4); and (3) revise the requirements for fuel storage within the NFV.

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2.0 RAI

In the letter dated May 10, 2012, NextEra states that the acceptance criteria is 45 mil for the uniform void. Please clarify how the 45 mil limit was determined and why the uniform void is the conservative parameter to model the blisters. Also, please clarify how the uniform void volume is calculated including what measured blister dimensions are used in the calculations.

Enclosure



K. Walsh

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If you have any questions, please contact me at (301) 415-3100.

Sincerely,

*/ra/*

John G. Lamb, Senior Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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**ADAMS Accession No: ML12192A232**

OFFICE	LPL1-2/PM	LPL1-2/LA	LPL1-2/BC	LPL1-2/PM
NAME	JLamb	ABaxter	MKhanna	JLamb
DATE	07/23/12	07/16/12	07/24/12	07/24/12

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