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

October 17, 2011

LICENSEE: NextEra Energy Seabrook, LLC

FACILITY: Seabrook Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON MAY 5, 2011, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND NEXTERA ENERGY SEABROOK, LLC, CONCERNING CLARIFICATION OF INFORMATION PERTAINING TO THE SEABROOK STATION LICENSE RENEWAL APPLICATION (TAC NO. ME4028)

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of NextEra Energy Seabrook, LLC (NextEra or the applicant), held a telephone conference call on May 5, 2011, to obtain clarification on information contained in the Seabrook Station license renewal application (LRA). The telephone conference call was useful in clarifying the applicant's information in the LRA.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a summary of the issues discussed during the call with the applicant.

The applicant had an opportunity to comment on this summary.

Rick Plasse, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosures:
As stated

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TELEPHONE CONFERENCE CALL
SEABROOK STATION LICENSE RENEWAL APPLICATION

LIST OF PARTICIPANTS
May 5, 2011

PARTICIPANTS	AFFILIATIONS
Kim Green	U.S. Nuclear Regulatory Commission (NRC)
Andrew Prinaris	NRC
Ching Ng	NRC
Jim Medoff	NRC
Richard Cliche	NextEra Energy Seabrook, LLC. (NextEra)
Paul Willoughby	NextEra
Ed Carley	NextEra

ENCLOSURE 1

TELEPHONE CONFERENCE CALL
SEABROOK STATION
LICENSE RENEWAL APPLICATION

1. License renewal application (LRA) Section 4.6.1

In LRA Section 4.6.1, the applicant stated the following:

> The Seabrook Station analyses confirmed the 40-year anticipated stress cycles listed below would satisfy the exemption criteria of NE 3221.5(d).
>
> - Atmospheric-to-service pressure cycles (120 cycles)
> - Temperature difference from Startup to Shutdown (120 cycles)
> - Operating Basis Earthquake (500 cycles)
> - LOCA (10 cycles)

However, in the updated final safety analysis report (UFSAR) Section 3.8.1.3, the applicant states the following:

> Cyclic Loading
>
> The various cycles loads were considered in the design. The following design conditions were considered in the fatigue analysis:
>
> 120 cycles start and shutdown
> 500 OBE cycles
> 100 SSE cycles
> 1 accident cycle (LOCA)

The staff asked for the following clarification:

a. What is the difference between the startup and shutdown cycles presented in the LRA and in the UFSAR?

Response: NextEra clarified that the 120 cycles for plant startups and shutdowns cited in the UFSAR was used to determine both the thermal and the pressure cycles of 120 used in the time-limited aging analysis (TLAA) and explained that the pressure cycles are derived from the thermal cycles (also 120 cycles both in the LRA and in the UFSAR).

b. Why did NextEra use 10 accident cycles (LOCA) in the TLAA?

Response: NextEra stated that it used 10 cycles for conservatism in the TLAA, but its design basis load is 1 cycle (LOCA) as stated in the UFSAR.

2. LRA Section 4.6.2

In LRA Section 4.6.2, the applicant stated that, "The design of the containment penetrations did not involve cyclic evaluations and therefore are not considered TLAAs."

For the piping and electrical penetrations, the staff reviewed UFSAR 3.8.2.4 titled "Design and Analysis Procedures," parts (d), (e), and (f) titled "High Energy Piping Penetrations," "Moderate Energy Piping Penetrations," and "Electrical Penetrations" respectively. The staff asked for clarification regarding no TLAAs for penetrations. Additionally, the staff asked for clarification on whether mechanical piping going through the penetrations are also TLAAs.

Response:

NextEra stated that its Architect-Engineer was United Engineers and Constructors, and that the A-E did not perform cyclic analyses for the containment penetrations.

With regard to the mechanical piping that goes through the penetrations, the applicant stated that the piping is ASME Code Class 2 piping, and the TLAAs (which are implicit) for that piping are addressed in LRA Section 4.3.7. The applicant also referred the staff to its request for additional information response dated April 22, 2011.

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/RA/

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OFFICE	LA:DLR	PM:RPB1:DLR	BC:RPB1:DLR	PM:RPB1:DLR
NAME	SFigueroa	RPlasse	DMorey	RPlasse
DATE	10/7/11	10/07/11	10/09/11	10/17/11

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Memorandum to NextEra Energy from R. Plasse dated October 17, 2011

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