



January 27, 2011

NRC 2011-0017
10 CFR 50.90

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Point Beach Nuclear Plant, Units 1 and 2
Dockets 50-266 and 50-301
Renewed License Nos. DPR-24 and DPR-27

License Amendment Request 261
Extended Power Uprate
Response to Request for Clarification

- References:
- (1) FPL Energy Point Beach, LLC letter to NRC, dated April 7, 2009, License Amendment Request 261, Extended Power Uprate (ML091250564)
 - (2) NextEra Energy Point Beach, LLC letter to NRC, dated January 21, 2011, License Amendment Request 261, Extended Power Uprate, Response to Request for Clarification
 - (3) FPL Energy Point Beach, LLC letter to NRC, dated December 8, 2008, License Amendment Request 241, Alternative Source Term (ML083450683)

NextEra Energy Point Beach, LLC (NextEra) submitted License Amendment Request (LAR) 261 (Reference 1) to the NRC pursuant to 10 CFR 50.90. The proposed amendment would increase each unit's licensed thermal power level from 1540 megawatts thermal (MWt) to 1800 MWt, and revise the Technical Specifications to support operation at the increased thermal power level.

During an NRC desk audit of the Extended Power Uprate (EPU) boron precipitation analysis at Westinghouse's Rockville, Md. Offices on January 20, 2011, the NRC reviewed specific information related to the margins in the analysis. In response to NRC information requests during the audit, NextEra made two Regulatory Commitments related to emergency operating procedure revisions and provided additional information supporting the margins and conservatisms in the boron precipitation analysis (Reference 2).

During a telephone conference with the NRC on January 24, 2011, NextEra was informed that additional margin was required between the time that cold leg injection is initiated during post-loss of coolant accident (LOCA) recirculation and the time boron precipitation is calculated to occur.

In order to accommodate additional margin for the EPU boron precipitation analysis, the assumption regarding duration of containment spray system operation during post-LOCA recirculation must be reduced from three hours to two hours. The effect of this change on the boron precipitation analysis on EPU is addressed in Enclosure 1. The effect of this change on the LAR 241, Alternative Source Term (AST) (Reference 3) dose analysis for large break LOCA is being addressed by separate correspondence.

This letter contains no new Regulatory Commitments and no revisions to existing Regulatory Commitments.

The information contained in this letter does not alter the no significant hazards consideration contained in Reference (1) and continues to satisfy the criteria of 10 CFR 51.22 for categorical exclusion from the requirements of an environmental assessment.

In accordance with 10 CFR 50.91, a copy of this letter is being provided to the designated Wisconsin Official.

I declare under penalty of perjury that the foregoing is true and correct.
Executed on January 27, 2011.

Very truly yours,

NextEra Energy Point Beach, LLC

A handwritten signature in black ink, appearing to read "Larry Meyer".

Larry Meyer
Site Vice President

Enclosure

cc: Administrator, Region III, USNRC
Project Manager, Point Beach Nuclear Plant, USNRC
Resident Inspector, Point Beach Nuclear Plant, USNRC
PSCW

ENCLOSURE 1

NEXTERA ENERGY POINT BEACH, LLC POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

LICENSE AMENDMENT REQUEST 261 EXTENDED POWER UPRATE RESPONSE TO REQUEST FOR CLARIFICATION

During an NRC desk audit of the Extended Power Uprate (EPU) boron precipitation analysis at Westinghouse's Rockville, Md. Offices on January 20, 2011, the NRC reviewed specific information related to the margins in the analysis. In response to NRC information requests during the audit, NextEra Energy Point Beach, LLC (NextEra) made two Regulatory Commitments related to emergency operating procedure revisions and provided additional information supporting the margins and conservatisms in the boron precipitation analysis (Reference 1).

During a telephone conference with the NRC on January 24, 2011, NextEra was informed that additional margin was required between the time that cold leg injection is initiated during post-loss of coolant accident (LOCA) recirculation and the time boron precipitation is calculated to occur.

In order to accommodate additional margin for the EPU boron precipitation analysis, the assumption regarding the duration of containment spray (CS) system operation during post-LOCA recirculation must be reduced from three hours to two hours. The effect of this change on the boron precipitation analysis presented in License Amendment Request (LAR) 261 (Reference 2) is discussed below. The effect of this change on the LAR 241, Alternative Source Term (AST) (Reference 3), dose analysis for large break LOCA (LBLOCA) is being addressed by separate correspondence.

Based on the LBLOCA boron precipitation analysis provided in LAR 261, Attachment 5, Page 2.8.5.6.3-11, operators would need to re-establish cold leg injection no later than 4 hours and 30 minutes from the termination of safety injection to the cold legs, or 4 hours and 50 minutes from initiation of a LBLOCA event assuming maximum safeguards flow during the injection phase, to prevent boric acid precipitation. By reducing the duration of CS operation during the recirculation phase to two hours, cold leg injection can be re-established within 3 hours and 10 minutes from the termination of safety injection to the cold legs, or 3 hours and 30 minutes from initiation of a LBLOCA event, assuming maximum safeguards flow during the injection phase, to prevent boric acid precipitation. This ensures a minimum of one hour of margin is available.

No other EPU analyses and/or evaluations are affected by this change in CS system operation with the exception of the Technical Support Center (TSC) dose analysis presented in Reference (4). NextEra has completed a review of this dose analysis assuming the reduction in CS operating duration described above. This review confirmed that the 30-day TSC dose following a LBLOCA is less than the 10 CFR 50.67 acceptance criteria for control room dose of 5 rem TEDE.

References

- (1) NextEra Energy Point Beach, LLC letter to NRC, dated January 21, 2011, License Amendment Request 261, Extended Power Uprate, Response to Request for Clarification
- (2) FPL Energy Point Beach, LLC letter to NRC, dated April 7, 2009, License Amendment Request 261, Extended Power Uprate (ML091250564)
- (3) FPL Energy Point Beach, LLC letter to NRC, dated December 8, 2008, License Amendment Request 241, Alternative Source Term (ML083450683)
- (4) NextEra Energy Point Beach, LLC letter to NRC, dated November 4, 2010, License Amendment Request 261, Extended Power Uprate, Response to Clarification Request (ML103090334)