NEXTera ENERGY POINT BEACH

July 15, 2010

NRC 2010-0103
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 Additional Information

References: (1) FPL Energy Point Beach, LLC letter to NRC, dated April 7, 2009, License Amendment Request 261, Extended Power Uprate (ML091250564)

(2) NRC electronic mail to NextEra Energy Point Beach, LLC, dated June 24, 2010, Request for Clarification re: Point Beach Nuclear Plant, Units 1 and 2 Extended Power Uprate License Amendment Request (TAC Nos. ME1044 and ME1045) (ML101760549)

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.

Via Reference (2), the NRC staff determined that additional information is required to enable the staff's continued review of the request. Enclosure 1 provides the NextEra response to the NRC staff's request for additional information.

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 July 15, 2010.

Very truly yours,

NextEra Energy Point Beach, LLC

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 ADDITIONAL INFORMATION

The NRC staff determined that additional information was required (Reference 1) to enable the Piping and NDE Branch to complete the review of License Amendment Request (LAR) 261, Extended Power Uprate (EPU) (Reference 2). The following information is provided by NextEra Energy Point Beach, LLC (NextEra) in response to the NRC staff's request.

RAI-1

In the April 26, 2010, RAI response letter, the Existing LBB Analysis Hot Leg Temperature is stated as 605.5°F in RAI CPNB-15. In the April 7, 2009, submittal, Table 2.1.5-1 references a Hot Leg Temperature of 603.5°F.

Please explain the 2°F difference in referenced Hot Leg Temperatures.

NextEra Response

As noted in LAR 261 (Reference 2), Attachment 5, Table 2.1.5-1, Summary of Service Temperature Changes in the RV Closure Head and Bottom-Mounted Instrumentation (BMI) Penetrations Due to the Proposed EPU, and Table 1-2, Information for the Current NSSS Parameters for PBNP Units 1 and 2, the highest reactor coolant system (RCS) vessel outlet (hot leg) temperature for the current licensed power level of 1540 megawatts thermal (MWt) is 603.5°F.

The hot leg temperature of 605.5°F, however, is used in the existing Leak Before Break (LBB) analysis of record for the Point Beach Nuclear Plant (PBNP) large primary loop pipe rupture, as documented in WCAP-14439-P, Revision 2, Technical Justification for Eliminating Large Primary Loop Pipe Rupture as the Structural design Basis for the Point Beach Nuclear Plant Units 1 and 2 for the Power Uprate and License Renewal Program (Reference 3).

The high RCS hot leg temperature of 605.5°F used in WCAP-14439-P is based on a previous power uprate analysis program for a planned uprate of approximately 10% to a core power level of 1678 MWt. The power uprate was not implemented. This is the reason for the 2°F difference between the high current RCS hot leg temperature of 603.5°F reported in the LAR and the existing LBB analysis hot leg temperature of 605.5°F reported in the NextEra response to RAI CPNB-15.

References

1. NRC electronic mail to NextEra Energy Point Beach, LLC, dated June 24, 2010, Request for Clarification re: Point Beach Nuclear Plant, Units 1 and 2 Extended Power Uprate License Amendment Request (TAC Nos. ME1044 and ME1045) (ML101760549)

2. FPL Energy Point Beach, LLC letter to NRC, dated April 7, 2009, License Amendment Request 261, Extended Power Uprate (ML091250564)

3. NRC letter to Nuclear Management Company, LLC, dated June 6, 2003, Point Beach Nuclear Plant, Units 1 and 2, Issuance of Amendments Re: Leak-Before-Break Evaluation for Primary Loop Piping (TAC Nos. MC1279 and MC1280) (ML043360295)