NEXTera ENERGY POINT BEACH

June 14, 2010

NRC 2010-0077
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 letter to NextEra Energy Point Beach, LLC, dated March 25, 2010, Point Beach Nuclear Plant, Units 1 and 2 – Request for Additional Information from Fire Protection Branch RE: Extended Power Uprate (TAC Nos. ME1044 and ME1045) (ML100750685)
(3) NextEra Energy Point Beach, LLC letter to NRC, dated April 28, 2010, License Amendment Request 261, Extended Power Uprate, Response to Request for Additional Information (ML101190086)
(4) NRC electronic mail to NextEra Energy Point Beach, LLC, dated May 12, 2010, Draft – Request for Additional Information from Fire Protection Branch RE: EPU (ML101340506)

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. Reference (3) provided NextEra's response to the NRC staff's request for additional information. Enclosure 1 provides additional information to clarify NextEra's response to Fire Protection RAI #5, as requested by the Staff (Reference 4).

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 June 14, 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 Fire Protection Branch to complete its review of License Amendment Request (LAR) 261, Extended Power Uprate (EPU) (Reference 2). By letter dated April 28, 2010 (Reference 3), NextEra Energy Point Beach, LLC (NextEra) provided its response to the NRC staff's request. The following additional information is provided, as requested by the NRC Staff (Reference 4), to clarify the NextEra's Response to Fire Protection RAI #5.

The following additional question was developed as a result the staff's review of the licensee's Extended Power Uprate (EPU) application for PBNP.

Fire Protection RAI #5

Some plants credit aspects of their fire protection system for other than fire protection activities, e.g., utilizing the fire water pumps and water supply as backup cooling or inventory for non-primary reactor systems. If the Point Beach Nuclear Plant (PBNP) Units 1 and 2, credits its fire protection system in this way, the EPU LAR should identify the specific situations and discuss to what extent, if any, the EPU affects these "non-fire-protection" aspects of the plant fire protection system. If the PBNP Units 1 and 2 do not take such credit, the NRC staff requests that the licensee verify this as well.

NextEra Response

Non-fire suppression uses of the fire protection water supply for PBNP are to:

- Support post-fire safe shutdown activities by providing a backup supply of bearing cooling water to the turbine-driven auxiliary feedwater pumps. This function is not changed by EPU.

- Provide a backup source of makeup water for evaporative cooling of the spent fuel pool in the event of loss of spent fuel pool cooling. The spent fuel pool make up requirement increases due to EPU, but remains well within the fire water local hose station flow capability.

- Provide a backup supply of feedwater through the use of the diesel-driven fire pump and routing of a fire hose between existing connections on the fire header to the condensate storage tanks. This function is not affected by EPU because the fire protection system makeup capability is much greater than the AFW requirement.

NRC Request:

Provide clarification how will the non-fire suppression use of fire protection water impact the need to meet the fire protection system design demands? Does fire suppression system water flow demands designed includes above three allowances?

NextEra Response

The above non-fire protection uses of the fire protection water supply are not credited as the primary means for cooling or makeup during the post-fire safe shutdown or are not used for post-fire events. Therefore, all the above non-fire protection uses of the fire protection water supply do not impact the fire protection system design demand and are not included in the fire suppression flow demand.

The safety-related service water system provides cooling to the turbine-driven auxiliary feedwater (TDAFW) pumps bearings supporting post-fire safe shutdown. Cooling to the TDAFW pumps bearing can be supplied from the diesel-driven fire water pump following a loss of all AC (i.e., station blackout). Note that the cooling water requirement for the bearing cooling is approximately 12 gpm, which is small in comparison to the 2,000 gpm capacity of the fire water pumps.

The fire protection makeup to the spent fuel pool is not required to support the post-fire safe shutdown. The emergency makeup to the fuel pool following a complete loss of fuel pool cooling can be supplied from several sources including service water, refueling water storage tank, demineralized water, chemical volume and control system hold up tanks, and reactor makeup water tanks.

Upon depletion of the condensate storage tank, the alternate source of water to the suction of the auxiliary feedwater pumps is from the service water system. The abnormal operating procedures direct the use of fire water pumps as an alternate supply to the auxiliary feedwater pumps, but only in the event that no service water is available.

References

(1) NRC letter to NextEra Energy Point Beach, LLC, dated March 25, 2010, Point Beach Nuclear Plant, Units 1 and 2 – Request for Additional Information from Fire Protection Branch RE: Extended Power Uprate (TAC Nos. ME1044 and ME1045) (ML100750685)

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