



August 12, 2010

NRC 2010-0120
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 241
Alternative Source Term
Response to Request for Additional Information

- References:
- (1) FPL Energy Point Beach, LLC letter to NRC, dated December 8, 2008, License Amendment Request 241, Alternative Source Term (ML083450683)
 - (2) NRC electronic mail to NextEra Energy Point Beach, LLC, dated July 27, 2010, Point Beach Nuclear Plant, Units 1 and 2 - Draft RAIs re: AST License Amendment Request (ML102230304)
 - (3) Summary of July 22, 2010, Public Meeting with NextEra Energy Point Beach, LLC, to Discuss Outstanding Issues and Schedule Related to NRC Staff Review of License Amendment Requests Associated with Alternate Source Term, Auxiliary Feedwater, Extended Power Uprate, and Non-Conservative Setpoint Changes (TAC Nos. ME0219, ME0220, ME1081, ME1044, ME1045, ME1083 and ME 1084), dated August 11, 2010 (ML102180030)

NextEra Energy Point Beach, LLC (NextEra) submitted License Amendment Request (LAR) 241 (Reference 1) to the NRC pursuant to 10 CFR 50.90. The license amendment would revise the current licensing basis to implement the alternative source term (AST) through reanalysis of the radiological consequences of the Point Beach Nuclear Plant (PBNP) Final Safety Analysis Report (FSAR) Chapter 14 accidents.

Via References (2) and (3), 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 request for additional information from the Electrical Engineering Branch (EEEB) transmitted in Reference (2). Enclosure 2 provides the NextEra response to the request for additional information from the Containment and Ventilation Branch identified during the July 22, 2010, public meeting (Reference 3).

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 August 12, 2010.

Very truly yours,

NextEra Energy Point Beach, LLC

A handwritten signature in black ink, appearing to read "Larry Meyer", with a long horizontal flourish extending to the right.

^{For}
Larry Meyer
Site Vice President

Enclosures

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 241 ALTERNATIVE SOURCE TERM RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

The NRC staff determined that additional information was required (Reference 1) to enable the Electrical Engineering Branch to complete its review of License Amendment Request (LAR) 241, Alternative Source Term (AST) (Reference 2). The following information is provided by NextEra Energy Point Beach, LLC (NextEra) in response to the NRC staff's request.

RAI-1 (EEEB)

In its July 8, 2010, RAI response to staff Question 2, the licensee stated the following:

"The mitigating filtration unit(s) will only be placed in service when the CREFS is out of service. The electrical power requirements for the mitigating filtration unit(s) are equivalent to the installed CREFS fans. Thus, EDG loading would not be affected if the mitigating filtration unit(s) were placed into service following a loss of offsite power."

- a) *Describe how the mitigating filtration unit(s) will be electrically connected and loaded onto the diesel generator (i.e., sequence of loading). Also describe what prevents the CREFS and mitigating filtration unit(s) from concurrently being loaded onto the diesel generator (alternatively: discuss how the diesel generator has sufficient capacity to support loading of both the CREFS and mitigating filtration unit(s)).*
- b) *Describe how the mitigating filtration unit(s) will be electrically isolated and separated from the Class 1E system.*
- c) *Describe how you determined that the electrical power requirements for the mitigating filtration unit(s) are equivalent to the installed CREFS fans (e.g., provide the ratings for the CREFS and mitigating filtration unit(s)).*

NextEra Response

- a) The mitigating filtration unit will be connected to the emergency diesel generator (EDG) via the same power source as the control room emergency filtration system (CREFS) filter fans W-14A or W-14B via a manually operated transfer switch. The EDG "sequence of loading" is not pertinent because the mitigating filtration unit is not an automatically sequenced load, and will need to be manually actuated. Manual actuation of the mitigating filtration unit will not take place until the automatic load sequence has been completed.

The CREFS filter fans and mitigating filtration unit will be prevented from concurrent loading onto the EDG via the manual transfer switch, which will only allow one fan per EDG to operate. The adequacy of the EDG to handle the loading of the automatically sequenced CREFS fans has been previously documented (Reference 3). Therefore, the EDGs have adequate capacity to handle an equivalently sized mitigating filtration unit.

- b) The mitigating filtration unit will be electrically isolated and separated from the Class 1E system via the motor control center (MCC) breaker (feeding either W-14A or W-14B, depending on which MCC is chosen), that serves as the point of electrical isolation between the Class 1E side (the MCC) and the non Class 1E side (downstream of the breaker).
- c) The electrical power requirements for the mitigating filtration unit are intended to be equivalent to the W-14A/B motors. The W-14A/B motors have been replaced within the last five years. The mitigating filtration unit specification requires an equivalent motor to the W-14A/B motors will be procured for the mitigating filtration unit (equivalent HP, efficiency, power factor and voltage requirements).

References

- (1) NRC electronic mail to NextEra Energy Point Beach, LLC, dated July 27, 2010, Point Beach Nuclear Plant, Units 1 and 2 - Draft RAIs re: AST License Amendment Request (ML102230304)
- (2) FPL Energy Point Beach, LLC letter to NRC, dated December 8, 2008, License Amendment Request 241, Alternative Source Term (ML083450683)
- (3) NextEra Energy Point Beach, LLC letter to NRC, dated April 15, 2010, License Amendment Request 261, Supplement 4, Extended Power Uprate (ML101050357)

ENCLOSURE 2

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

LICENSE AMENDMENT REQUEST 241 ALTERNATIVE SOURCE TERM RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

The NRC staff determined that additional information was required (Reference 1) to enable the Containment and Ventilation Branch to complete its review of License Amendment Request (LAR) 241, Alternative Source Term (AST) (Reference 2). The following information is provided by NextEra Energy Point Beach, LLC (NextEra) in response to the NRC staff's request.

Question 1

During the July 22, 2010 public meeting (Reference 1), the NRC staff requested the following regarding item d. of proposed PBNP Technical Specification 5.5.18, "Control Room Envelope Habitability Program," provided in References (2) and (3):

For item d., please provide the basis for using the PBNP wording, "...during the Technical Specification emergency mode of operation...", versus TSTF-448 wording "...during the pressurization mode of operation." Additionally, clarify that item d. will also apply to the mitigating filtration system.

NextEra Response

The Point Beach Nuclear Plant (PBNP) wording "...during the Technical Specification emergency mode of operation..." was utilized in Item d. of proposed Technical Specification (TS) 5.5.18, "Control Room Envelope Habitability Program," (Reference 3) because it best describes the PBNP Control Room Emergency Filtration System (CREFS) pressurization mode of operation, and would be more clearly understood by plant personnel from a human factors standpoint.

Additionally, proposed TS 5.5.18, Item d., periodic measurement of control room envelope pressure relative to adjacent external areas during the emergency mode of operation, will be applied to the mitigating filtration system.

References

- (1) Summary of July 22, 2010, Public Meeting with NextEra Energy Point Beach, LLC, to Discuss Outstanding Issues and Schedule Related to NRC Staff Review of License Amendment Requests Associated with Alternate Source Term, Auxiliary Feedwater, Extended Power Uprate, and Non-Conservative Setpoint Changes (TAC Nos. ME0219, ME0220, ME1081, ME1044, ME1045, ME1083 and ME 1084), dated August 11, 2010 (ML102180030)
- (2) FPL Energy Point Beach, LLC letter to NRC, dated December 8, 2008, License Amendment Request 241, Alternative Source Term (ML083450683)
- (3) NextEra Energy Point Beach, LLC letter to NRC, dated July 8, 2010, Supplement to License Amendment Request 241, Alternative Source Term, Revised Proposed Technical Specifications for Control Room Envelope Habitability Program (ML101890783)