



November 4, 2016

NRC 2016-0048  
10 CFR 50.90

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Point Beach Nuclear Plant  
Units 1 and 2  
Docket Nos. 50-266 and 50-301  
Renewed Facility Operating Licenses Nos. DPR-24 and DPR-27

Response to Request for Additional Information - Point Beach Nuclear Plant, Units 1 & 2 –  
LAR 280 - Removal of Completed License Conditions and Change to the Ventilation Filter  
Testing Program

- References:
- (1) NRC Electronic Mail to NextEra Energy Point Beach, LLC, dated October 4, 2016, "Request for Additional Information - Point Beach Nuclear Plant, Units 1 & 2 - License Amendment Request - Removal of Completed License Conditions and Change to the Ventilation Filter Testing Program" MF7352/53
  - (2) NextEra Energy Point Beach, LLC letter to NRC, dated February 12, 2016, "License Amendment Request 280, Removal of Completed License Conditions and Change to the Ventilation Filter Testing Program" (ML16043A217)

The NRC staff determined in Reference (1) that additional information was required to complete its review of the License Amendment Request submitted in Reference (2). The NextEra Energy Point Beach, LLC, (NextEra) response to the request for additional information is documented in the Enclosure.

In accordance with 10 CFR 50.91, a copy of this letter is being forwarded to the State of Wisconsin designee.

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

Should you have questions or require additional information, please contact Mr. Bryan Woyak, Licensing Manager, at (920) 755 7599.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on November 4, 2016.

Sincerely,

NextEra Energy Point Beach, LLC



Robert Coffey  
Site Vice President

Enclosure

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

## ENCLOSURE

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

#### RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LICENSE AMENDMENT REQUEST 280- REMOVAL OF COMPLETED LICENSE CONDITIONS AND CHANGE TO THE VENTILATION FILTER TESTING PROGRAM” (TAC NO - MF7352/53)

#### RAI 1

*In LAR Section 3.1 entitled “Change to Operating Licenses,” the licensee requests the following license conditions to be removed:*

- 1) *Amendment 240/Amendment 244, Emergency Diesel Generator Loading License condition states:*

*NextEra Energy Point Beach, LLC shall perform Train B Emergency Diesel Generator load testing over a range of 2877 to 2950 kW at rated power factor. This license condition will remain in effect until implementation of LAR 261 for Unit 2.*

*Amendment 238/Amendment 242, Modifications to Reduce Emergency Diesel Generator Loading License condition states:*

*NextEra Energy Point Beach, LLC shall implement modifications to reduce emergency diesel generator (EDG) loading such that the maximum loading will not exceed the 2000-hour rating of the EDGs.*

*Please confirm and provide a summary of the calculations and modifications performed to conclude that the EDG maximum loading is now within the 2000-hour rating of the EDGs. Also, confirm that EDG maximum loading considers loads added from the alternate source term (AST) modifications documented in letter dated April 14, 2011 (ADAMS Accession Number ML110240054), and the new auxiliary feedwater (AFW) pump motor modifications, and the AST control room (CR) modifications to automatically start the CR emergency fans.*

#### Response to RAI 1

The current calculation for the Emergency Diesel Generator (EDG) Steady State Loading Analysis considers the additional electrical loads associated with the Auxiliary Feedwater (AFW) pump/motor modifications; and, the Alternate Source Term (AST) modifications, including the Control Room emergency fans. The modifications included the removal of non-essential loads from the EDG automatic load sequence to ensure that each EDG remains within its 2000-hr rating. The calculation envelopes the Injection Phase, the Recirculation Phase, and a Main Steam Line Break. The calculation assumes that only one EDG is available to support both units; and demonstrates that the electrical load for each EDG is within its 2000-hour rating. Results from the EDG Steady State Loading Analysis are shown in Tables 1, 2, and 3.

**Table 1: Potential Electrical Loads in EDG Steady State Loading Analysis**

**Table 1: EDG Load (kW) - Injection Phase**

EDG	G-01	G-02	G-03	G-04
2000 hr Rating	2850.0	2850.0	2848.0	2848.0
Load	2720.0	2720.0	2814.1	2815.1
Margin - 2000 hr	130.0	130.0	33.9	32.9

**Table 2: EDG Load (kW) - Recirculation Phase**

EDG	G-01	G-02	G-03	G-04
2000 hr Rating	2850.0	2850.0	2848.0	2848.0
Load	2241.0	2241.0	2335.1	2336.1
Margin - 2000 hr	609.0	609.0	512.9	511.9

**Table 3: EDG Load (kW) - Main Steam Line Break**

EDG	G-01	G-02	G-03	G-04
2000 hr Rating	2850.0	2850.0	2848.0	2848.0
Load	2811.0	2811.0	2790.1	2791.1
Margin - 2000 hr	39.0	39.0	57.9	56.9

**RAI 2**

2) Amendment 240 / Amendment 244, Mitigating Filtration Unit Motors License condition states:

*NextEra Energy Point Beach, LLC shall procure mitigating filtration unit motors equivalent to W-14A/B (equivalent HP, efficiency, power factor, and voltage requirements).*

*Please provide a comparison of the mitigating filtration unit motors that are procured and installed at PBNP Units 1 and 2 with W-14A/B motors to conclude that the electrical power requirements for these motors are the same (HP, efficiency, power factor, and voltage requirements) and they did not increase loading on the EDGs.*

**Response to RAI 2**

Below is a comparison of the Control Room Filter Fan Motors (W-14A/B-M) and the Mitigating Filtration Unit Motor (W-275-M). Horsepower, efficiency, power factor, and voltage requirements are identical between the motors.

**Motor Comparison: W-14A/B-M and W-275-M**

Motor Data	W-14A/B-M	W-275-M
Horsepower	7.5 Hp	7.5 Hp
Efficiency	87.5 %	87.5 %
Power Factor	90.5 %	90.5 %
Voltage	460 VAC	460 VAC