



March 22, 2016

NRC 2016-0010
10 CFR 50.46(a)(3)(ii)

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

10 CFR 50.46 Annual Report

In accordance with 10CFR50.46(a)(3)(ii), NextEra Energy Point Beach, LLC (NextEra) is submitting this annual report of changes to emergency core cooling system (ECCS) evaluation models for Point Beach Nuclear Plant (PBNP), Units 1 and 2. This letter provides a summary of ECCS evaluation model changes and errors identified for the Year 2015.

This submittal contains no new commitments or revisions to existing commitments.

Sincerely,

NextEra Energy Point Beach, LLC

A handwritten signature in black ink, appearing to read "Bryan Woyak".

Bryan Woyak
Licensing Manager
Point Beach Nuclear Plant

Enclosure

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

ENCLOSURE

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

10 CFR 50.46 ANNUAL REPORT

This annual report of changes to, and errors discovered in, emergency core cooling system (ECCS) evaluation models for Point Beach Nuclear Plant (PBNP) Units 1 and 2, for the Year 2015, is provided pursuant to 10 CFR 50.46(a)(3)(ii). The report provides a summary of ECCS evaluation model changes and errors identified since the previous annual report (Reference 1). Westinghouse Electric Company is the of record holder for the Point Beach Units 1 and 2 Large Break and Small Break loss of coolant accident (LOCA) analyses. Large Break (LBLOCA) analysis is performed using the Westinghouse Realistic Large Break LOCA Evaluation Model using ASTRUM methodology. Small Break (SBLOCA) analysis is performed using the Westinghouse Small Break LOCA Evaluation Model with NOTRUMP.

Large Break LOCA Evaluation Model

No errors were found in the LBLOCA ECCS performance analysis since the previous annual report (Reference 1). Table 1 provides a summary of Peak Cladding Temperature (PCT) changes for Point Beach Units 1 and 2.

Small Break LOCA Evaluation Model

No errors were found in the SBLOCA ECCS performance analysis since the previous annual report (Reference 1). Table 2 provides a summary of PCT changes for Point Beach Units 1 and 2.

Reference:

1. NRC 2015-0021, M. Millen (NextEra Energy) to US NRC Document Control Desk, "Point Beach Nuclear Plant, Units 1 and 2, Dockets 50-266 and 50-301, Renewed License Nos. DPR-24 and DPR-27, 10 CFR 50.46 Annual Report," April 14, 2015 (ML 15104A561).

Table 1

Large Break LOCA Margin Summary Sheet – 2015 Annual Report

Plant Name: Point Beach Units 1 and 2

Utility name: NextEra Energy

Evaluation Model: Westinghouse Realistic Large Break LOCA Evaluation Model using ASTRUM

Evaluation Model PCT (Unit 1/Unit 2): **1975°F/1810°F**

			Net PCT Effect Unit 1/Unit 2	Absolute PCT Effect Unit 1/Unit 2
A	Prior 10 CFR 50.46 Changes or Error Corrections – up to Year 2014	Δ PCT	+210°F/+248°F	210°F/340°F
B	Prior 10 CFR 50.46 Changes or Errors Corrections – Year 2015	Δ PCT	None	None
C	10 CFR 50.46 Changes in Year 2015 Since Item B	Δ PCT	None	None
D	Absolute Sum of 10 CFR 50.46 Changes	Δ PCT		210°F/340°F
The sum of the PCT from the most recent analysis using an acceptable evaluation model and the estimates of PCT impact for changes and errors identified since this analysis			2185°F/2058°F < 2200°F	

Table 2

Small Break LOCA Margin Summary Sheet – 2015 Annual Report

Plant Name: Point Beach Units 1 and 2

Utility name: NextEra Energy

Evaluation Model: Westinghouse Small Break LOCA Evaluation Model with NOTRUMP

Evaluation Model PCT (Unit 1/Unit 2): **1049°F/1103°F**

			1. Net PCT Effect Unit 1/Unit 2	Absolute PCT Effect Unit 1/Unit 2
A	Prior 10 CFR 50.46 Changes or Error Corrections – up to Year 2014	Δ PCT	0°F/0°F	0°F/0°F
B	Prior 10 CFR 50.46 Changes or Errors Corrections – Year 2015	Δ PCT	None	None
C	10 CFR 50.46 Changes in Year 2015 Since Item B	Δ PCT	None	None
D	Absolute Sum of 10 CFR 50.46 Changes	Δ PCT		0°F/0°F
<p>The sum of <i>the PCT from the most recent analysis using an acceptable evaluation model and the estimates of PCT impact for changes and errors identified since this analysis</i></p>			<p>1049°F/1103°F < 2200 °F</p>	