NEXTera ENERGY POINT BEACH

September 22, 2009

NRC 2009-0100
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

ECCS Evaluation Model Changes

NextEra Energy Point Beach (NextEra), LLC, is submitting 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. This letter provides a summary of ECCS evaluation model changes and errors identified since the previous annual report dated June 16, 2008.

Enclosure 1 describes the ECCS evaluation model changes and errors for the large and small break LOCA. Enclosure 2 provides the large break LOCA margin summary sheet for 2008. Enclosure 3 provides the small break LOCA margin summary sheet for 2008.

There were no changes or errors to the large break or small break LOCA evaluation models during this reporting period that resulted in a change to the calculated peak clad temperature (PCT) for PBNP.

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

Very truly yours,

NextEra Energy Point Beach, LLC

James Costedio
Licensing Manager
Point Beach Nuclear Plant

Enclosures

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

ENCLOSURE 1

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

ECCS EVALUATION MODEL CHANGES AND ERRORS

This is the 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 2008. The report provides a summary of ECCS evaluation model changes and errors identified since the previous annual report dated June 16, 2008. Westinghouse Electric Company is the analysis of record holder for PBNP Units 1 and 2 large break and small break loss of coolant accident (LOCA) analyses. Large break LOCA analysis is performed using the 1999 Westinghouse Best Estimate Large Break LOCA Evaluation Model, application to PWRs with upper plenum injection. The small break LOCA analysis is performed using the 1985 Westinghouse Small Break LOCA Evaluation Model with NOTRUMP.

LARGE BREAK LOCA ECCS EVALUATION MODEL CHANGES AND ERRORS

There were no changes or errors to the large break LOCA evaluation model during this reporting period that resulted in a change to the calculated peak clad temperature (PCT) for PBNP. Enclosure 2 provides a summary of PCT changes for PBNP Units 1 and 2.

SMALL BREAK LOCA ECCS EVALUATION MODEL CHANGES AND ERRORS

There were no changes or errors to the small break LOCA evaluation model during this reporting period that resulted in a change to the calculated PCT for PBNP. Enclosure 3 provides a summary of PCT changes for PBNP Units 1 and 2.

ENCLOSURE 2

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

LARGE BREAK LOCA MARGIN SUMMARY SHEET FOR 2008

Evaluation Model: 1999 Westinghouse Best Estimate Large Break LOCA Evaluation Model, application to PWRs with Upper Plenum Injection

Evaluation Model PCT: 2128°F

			Net PCT Effect	Absolute PCT Effect
A	Prior 10 CFR 50.46 Changes or Error Corrections – up to Year 2007	ΔPCT	+3°F	+121°F
B	Prior 10 CFR 50.46 Changes or Errors Corrections – Year 2008	ΔPCT	+0°F	+0°F
C	10 CFR 50.46 Changes in Year 2008 Since Item B			
	None	ΔPCT	N/A	N/A
D	Absolute Sum of 10 CFR 50.46 Changes	ΔPCT		+121°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	2131°F < 2200°F

ENCLOSURE 3

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

SMALL BREAK LOCA MARGIN SUMMARY SHEET FOR 2008

Evaluation Model: 1985 Westinghouse Small Break LOCA Evaluation Model with NOTRUMP

Evaluation Model PCT: 1157°F/1046°F

			Net PCT Effect	Absolute PCT Effect
A	Prior 10 CFR 50.46 Changes or Error Corrections – up to Year 2007	ΔPCT	+48°F/+48°F	+48°F/+48°F
B	Prior 10 CFR 50.46 Changes or Errors Corrections – Year 2008	ΔPCT	+0°F/+0°F	+0°F/+0°F
C	10 CFR 50.46 Changes in Year 2008 Since Item B			
	None	ΔPCT	N/A	N/A
D	Absolute Sum of 10 CFR 50.46 Changes	ΔPCT		+48°F/+48°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	1205°F/1094°F < 2200 °F