



June 2, 2017

L-2017-102  
10 CFR 50.46(a)(3)(ii)

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

Florida Power & Light Company  
Turkey Point Units 3 and 4  
Docket Nos. 50-250, 50-251

NextEra Energy Seabrook, LLC  
Seabrook Station  
Docket No. 50-443

Reference:

1. Letter NF-NEXT-17-88 from L. Sekkat to W. Rosette, and J. Perryman, dated May 12, 2017, "Turkey Point Units 3 and 4, Seabrook Unit 1, 10 CFR 50.46 Report for the Vessel Average Temperature Uncertainty"

10 CFR 50.46 - Emergency Core Cooling 30-Day Report

In accordance with 10 CFR 50.46(a)(3)(ii), Florida Power & Light's Turkey Point Nuclear Plant (FPL), and NextEra Energy Seabrook, LLC (hereby referred to as NextEra), are submitting this 30-day report for the Turkey Point Nuclear Plant (PTN), Units 3 and 4, and Seabrook Station (SBK) for the emergency core cooling system (ECCS) analysis performed by Westinghouse Electric Company, LLC.

Per Reference 1, NextEra was informed of a hysteresis issue for plants with Weed Resistance Temperature Detectors that applies to the Reactor Coolant System (RCS) average temperature accident analysis initial condition uncertainty. This issue was evaluated as having a negligible impact on the Large and Small Break LOCA analysis results, leading to a Peak Clad Temperature (PCT) impact of 0°F.

Although there is no change to the PCT, this information is being submitted within 30 days of Westinghouse notification since both Turkey Point and Seabrook are above a cumulative change of 50°F. Enclosed are the peak cladding temperature "rack up sheets" for Turkey Point Units 3 and 4, and Seabrook showing a PCT impact of 0°F.

ADDZ  
NRR

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Larry Nicholson".

Larry Nicholson  
Director, Nuclear Licensing and Regulatory Compliance

Enclosures (2)

cc: Administrator, Region I, USNRC  
Administrator, Region II, USNRC  
Project Manager, Turkey Point Nuclear Plant, USNRC  
Project Manager, Seabrook Station, USNRC  
Resident Inspector, Turkey Point Nuclear Plant, USNRC  
Resident Inspector, Seabrook Station, USNRC

### Enclosure 1

## Turkey Point Units 3 and 4 10 CFR 50.46 30-Day Report

<u>LBLOCA</u>	<u>Peak Clad Temperature</u>	<u>Cumulative Change</u>
2016 10 CFR 50.46 Annual Report <sup>(1)</sup>	2124 °F	80 °F
<u>Changes / Errors</u>		
- Error in Vessel Average Temperature Uncertainty <sup>(2)</sup>	0 °F	0 °F
<b>2017 10 CFR 50.46 30-Day Report</b>	<b>2124 °F</b>	<b>80 °F</b>
<u>SBLOCA</u>		
2016 10 CFR 50.46 Annual Report <sup>(1)</sup>	1231 °F	0 °F
<u>Changes / Errors</u>		
- Error in Vessel Average Temperature Uncertainty <sup>(2)</sup>	0 °F	0 °F
<b>2017 10 CFR 50.46 30-Day Report</b>	<b>1231 °F</b>	<b>0 °F</b>

#### References

1. Letter from L. Nicholson to U.S. Nuclear Regulatory Commission, "10 CFR 50.46 Annual Reporting of Changes to, or Errors in Emergency Core Cooling System Models or Applications," L-2017-014, April 17, 2017.
2. Letter L. Sekatt to W. Rosette, and J. Perryman, "Turkey Point Units 3 and 4, Seabrook Unit 1 10 CFR 50.46 Report for the Vessel Average Temperature Uncertainty," NF-NEXT-17-88, May 12, 2017.

**Enclosure 2**  
**Seabrook Unit 1**  
**10 CFR 50.46 30-Day Report**

<u>LBLOCA</u>	<u>Peak Clad Temperature</u>	<u>Cumulative Change</u>
2016 10 CFR 50.46 Annual Report <sup>(1)</sup>	1939 °F	155 °F
<u>Changes / Errors</u>		
- Error in Vessel Average Temperature Uncertainty <sup>(2)</sup>	0 °F	0 °F
<b>2017 10 CFR 50.46 30-Day Report</b>	<b>1939 °F</b>	<b>155 °F</b>
<u>SBLOCA</u>		
2016 10 CFR 50.46 Annual Report <sup>(1)</sup>	1373 °F	0 °F
<u>Changes / Errors</u>		
- Error in Vessel Average Temperature Uncertainty <sup>(2)</sup>	0 °F	0 °F
<b>2017 10 CFR 50.46 30-Day Report</b>	<b>1373 °F</b>	<b>0 °F</b>

References

1. Letter from L. Nicholson to U.S. Nuclear Regulatory Commission, "10 CFR 50.46 Annual Reporting of Changes to, or Errors in Emergency Core Cooling System Models or Applications," L-2017-014, April 17, 2017.
2. Letter L. Sekatt to W. Rosette, and J. Perryman, "Turkey Point Units 3 and 4, Seabrook Unit 1 10 CFR 50.46 Report for the Vessel Average Temperature Uncertainty," NF-NEXT-17-88, May 12, 2017.