



July 16, 2012

Docket No. 50-443
SBK-L-12126

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Seabrook Station
Annual Reporting of Changes to, or Errors in
Emergency Core Cooling System Models or Applications

In accordance with the requirements of 10 CFR 50.46(a)(3)(ii), NextEra Energy Seabrook, LLC submits a tabulation of the current Large Break and Small Break LOCA PCT margin utilization tables applicable to Seabrook Station. Compliance with 10 CFR 50.46 requirements is demonstrated by the current composite Large Break LOCA PCT of 1789 °F remaining well below the limit of 2200 °F. The cumulative change in the Large Break LOCA PCT is +5°F from the analysis of record value. The current Small Break LOCA PCT of 1373 °F also remains well below the limit of 2200 °F. There is currently no Small Break LOCA PCT cumulative change.

Should you have any questions regarding this report, please contact Mr. Paul V. Gurney, Reactor Engineering Supervisor, at (603) 773-7776.

Sincerely,

NextEra Energy Seabrook, LLC

A handwritten signature in black ink that reads "Michael O'Keefe". The signature is written in a cursive style and is positioned above a horizontal line.

Michael O'Keefe
Licensing Manager

cc: NRC Region I Administrator
J. Lamb, NRC Project Manager, Project Directorate I-2
W.J. Raymond, NRC Senior Resident Inspector

ADDL

ENCLOSURE TO SBK-L-12126

Seabrook SBLOCA and LBLOCA PCTs

	<u>Peak Clad Temperature</u>	<u>Cumulative Change</u>
<u>SBLOCA</u>		
2010 10 CFR 50.46 Annual Report ⁽¹⁾	1373 °F	-----
<u>Errors in 2011</u> ⁽²⁾		
- Radiation Heat Transfer Logic	0 °F	0 °F
- Maximum Fuel Rod Time Step Logic	0 °F	0 °F
2011 10 CFR 50.46 Annual Report	1373 °F	0 °F
<u>LBLOCA</u>		
2010 10 CFR 50.46 Annual Report (1)	1789 °F	5 °F
<u>No Errors in 2011</u> ⁽²⁾		
2011 10 CFR 50.46 Annual Report	1789 °F	5 °F

References

1. Letter from Michael O'Keefe to USNRC Document Control Desk, "Seabrook Station Annual Reporting of Changes to, or Errors in Emergency Core Cooling System Models or Applications," SBK-L-11127, July 14, 2011.
2. Letter from R. W. Kerr to Jimmie Perryman, "Seabrook -2011 Annual 10CFR50.46 Report", NF-NA-12-48, April 18, 2012.