



July 15, 2009

Docket No. 50-443
SBK-L-09155

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.

Very truly yours,

NextEra Energy Seabrook, LLC



Michael O'Keefe
Licensing Manager

cc: S. J. Collins, NRC Region I Administrator
D. Egan, NRC Project Manager, Project Directorate I-2
W.J. Raymond, NRC Senior Resident Inspector

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ENCLOSURE TO SBK-L-09155

Seabrook SBLOCA and LBLOCA PCTs

	<u>Peak Clad Temperature</u>	<u>Cumulative Change</u>
<u>SBLOCA</u>		
2007 10 CFR 50.46 Annual Report ⁽¹⁾	1373 °F	-----
<u>Errors in 2008</u> ⁽²⁾		
- Errors in Lower Plenum Surface Area Calculations	0 °F	0 °F
- Discrepancy in metal masses used from drawings	0 °F	0 °F
2008 10 CFR 50.46 Annual Report	1373 °F	0 °F
<u>LBLOCA</u>		
2007 10 CFR 50.46 Annual Report (1)	1789 °F	5 °F
<u>Errors in 2008</u> ⁽²⁾		
- HOTSPOT Burst Temperature Logic Errors	0 °F	0 °F
- CCFL Global Volume Error	0 °F	0 °F
2008 10 CFR 50.46 Annual Report	1789 °F	5 °F

References

1. Letter from Gene St. Pierre to USNRC Document Control Desk, "Seabrook Station Annual Reporting of Changes to, or Errors in Emergency Core Cooling System Models or Applications," SBK-L-08108, July 31, 2008.
2. Letter from D. S. Wenzel to Jimmie Perryman, "Seabrook -2008 Annual 10CFR50.46 Report", NF-NA-09-06, February 3, 2009.