



FPL Energy
Seabrook Station

FPL Energy Seabrook Station
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July 18, 2007

Docket No. 50-443
SBK-L-07103

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), FPL Energy Seabrook, LLC submits a tabulation of the current Large Break and Small Break LOCA PCT margin utilization tables applicable to Seabrook Station. The Large Break and Small Break LOCA Analyses of Record were redone to support the stretch power uprate. 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,

FPL Energy Seabrook, LLC

Gene St. Pierre
Site Vice President

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

A002

ENCLOSURE TO SBK-L-07103

Seabrook SBLOCA and LBLOCA PCTs

	Peak Clad Temperature	Cumulative Change
<u>SBLOCA</u>		
Analysis of Record value (Ref. 1)	1373 °F	-----
2006 changes (Ref. 3) 0 °F 0 °F		
2006 10 CFR 50.46 annual report	1373 °F	0 °F

LBLOCA

Analysis of Record value (Ref. 1)	1784 °F	-----
<u>2004 permanent assessments</u> (Ref. 2)		
Revised blowdown heatup uncertainty assessment	+5 °F	5 °F
<u>2006 permanent assessments</u> (Ref. 3)		
N/A	0 °F	5 °F
2006 10 CFR 50.46 annual report	1789 °F	5 °F

References

1. WCAP-16255-P, Revision 1 "Seabrook Station Stretch Power Uprate Project, NSSS Engineering Report," January 2005.
2. 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-05160, July 27, 2005.
3. Letter from M. J. Frankel to Jimmie Perryman, "Seabrook Annual 10CFR0.46 Report," NF-NA-07-28, May 1, 2007.