



**FPL Energy**  
**Seabrook Station**

**FPL Energy Seabrook Station**  
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July 24, 2006

Docket No. 50-443  
SBK-L-06149

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

  
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Gene St. Pierre  
Site Vice President

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

*APD*

**ENCLOSURE TO SBK-L-06149**

**Table 1**  
**Seabrook SBLOCA and LBLOCA PCTs**

	<b>Peak Clad Temperature</b>	<b>Cumulative Change</b>
<b><u>SBLOCA</u></b>		
Analysis of Record value (Ref. 1)	1373 °F	----
2004 changes (Ref. 2)	0 °F	0 °F
2005 changes (Ref. 3)	0 °F	0 °F
<b>2005 10 CFR 50.46 annual report</b>	<b>1373 °F</b>	<b>0 °F</b>
 <b><u>LBLOCA</u></b>		
Analysis of Record value (Ref. 1)	1784 °F	----
<b><u>2004 permanent assessments</u></b> (Ref. 2)		
Revised blowdown heatup uncertainty assessment	+5 °F	5 °F
<b><u>2005 permanent assessments</u></b> (Ref. 3)		
N/A	0 °F	5 °F
<b>2005 10 CFR 50.46 annual report</b>	<b>1789 °F</b>	<b>5 °F</b>

**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 Diana Robinson to R. J. Rodriguez, "10 CFR 50.46 Annual Notification and Reporting for 2005", NF-NA-06-52, July 10 2006.