



April 16, 2014

10 CFR 50.46

Docket No. 50-443
SBK-L-14073

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

Seabrook Station

Best Estimate Large Break Loss of Coolant Accident
10 CFR 50.46 30-Day Report

Reference: NextEra Energy Seabrook, LLC letter SBK-L-14040, "Best Estimate Large Break Loss of Coolant Accident (BE LBLOCA) 10 CFR 50.46 30-Day Report," February 18, 2014

In accordance with the requirements of 10 CFR 50.46(a)(3)(ii), NextEra Energy Seabrook, LLC (NextEra) submitted the referenced letter to report the impact of errors on the Seabrook Best Estimate Large Break Loss of Coolant Accident (BE LBLOCA). The reported BE LBLOCA peak clad temperature and cumulative change were 1939 °F and 155 °F, respectively.

10 CFR 50.46(a)(3)(ii) requires that changes to the BE LBLOCA Evaluation Model (EM) and small break LOCA EM resulting in cumulative changes and errors such that the sum of the absolute magnitudes of the respective temperature changes is greater than 50 °F be reported to the NRC within 30 days. This 30-day report documents changes and errors in the Seabrook BE LBLOCA analysis.

The enclosure provides the new BE LBLOCA PCT rackup for Seabrook Station that accounts for the changes and errors. The BE LBLOCA predicted values for the PCT and the cumulative change are 1939 °F and 155 °F, respectively. These values are unchanged from those provided in the referenced letter.


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10 CFR 50.46(a)(3)(ii) also requires that a schedule for reanalysis be provided or compliance with the requirements of the regulation be shown. Continued compliance with 10 CFR 50.46 requirements is demonstrated by the total estimated PCT value of 1939 °F remaining well below the limit of 2200 °F.

Should you have any questions regarding this report, please contact me at (603) 773-7512.

Sincerely,

NextEra Energy Seabrook, LLC



Michael H. Ossing
Licensing Manager

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

ENCLOSURE TO SBK-L-14073

Seabrook 10 CFR 50.46 30-Day Report for BE LBLOCA PCT

<u>BE LBLOCA</u>	<u>Peak Clad Temperature</u>	<u>Cumulative Change</u>
2014 10 CFR 50.46 30-Day Report ⁽¹⁾	1939 °F	155 °F
<u>Changes / Errors</u>		
- Grid Heat Transfer Enhancement ⁽²⁾	0 °F	0 °F
- Changes to Grid Blockage Ratio and Porosity ⁽²⁾	0 °F	0 °F
10 CFR 50.46 30-Day Report	1939 °F	155 °F

References

1. NextEra Energy letter, M. H. Ossing to U.S. Nuclear Regulatory Commission, "Seabrook Station Best Estimate Large Break Loss of Coolant Accident (BE LBLOCA) 10 CFR 50.46 30-day Report" SBK-L-14040, February 18, 2014.
2. Westinghouse letter, E. M. Malek to J. Perryman, "NextEra Energy Seabrook Station 10 CFR 50.46 Annual Notification and Reporting for 2013," NF-NA-14-42, March 18, 2014.