



AUG 27 2001

LRN-01-0265

United States Nuclear Regulatory Commission  
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Washington, DC 20555

Gentlemen:

**SALEM LOSS OF COOLANT ACCIDENT  
PEAK CLAD TEMPERATURE MARGIN TRACKING  
ANNUAL REPORT  
SALEM GENERATING STATION UNIT NOS. 1 AND 2  
DOCKET NOS. 50-272 AND 50-311**

In accordance with the requirements of 10CFR50.46, PSEG Nuclear LLC (PSEG-Nuclear) hereby submits its annual report to the NRC identifying the status of the peak clad temperatures predicted by the Large Break (LB) and Small Break (SB) Loss of Coolant Accident (LOCA) evaluation models for Salem. The last Peak Clad Temperature (PCT) report PSEG Nuclear filed with the NRC for Salem was dated September 21, 2000 (Reference LRN-00-0359).

In our September 21 report to the NRC, the following LOCA peak clad temperatures (PCTs) were identified.

S1 LB LOCA-PCT <sub>last report</sub>	= 2050°F
S1 SB LOCA-PCT <sub>last report</sub>	= 1689°F
S2 LB LOCA-PCT <sub>last report</sub>	= 2050°F
S2 SB LOCA-PCT <sub>last report</sub>	= 1689°F

One additional penalty has been identified since our last report that has not yet been reported to the NRC. This penalty is discussed below.

**1. LOCBART Cladding Emissivity Errors**

*Large Break (LB) LOCA-PCT*

Westinghouse has found that non-conservative cladding surface emissivity values were used in several expressions which model the radiation heat exchange between the rod,

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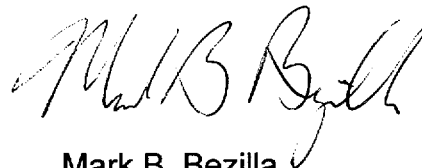
grid, and fluid during the reflood phase of this transient. A generic PCT assessment of +6°F was derived from representative plant calculations.

Thus, the current LOCA-PCT for Salem Units 1 and 2 is summarized below. The SB and LB LOCA analyses for both units still remains within the criteria set forth in 10 CFR 50.46.

<b>S1 LB LOCA-PCT<sub>current</sub></b>	<b>= 2056°F</b>	<b>(2050°F + 6°F)</b>
<b>S1 SB LOCA-PCT<sub>current</sub></b>	<b>= 1689°F</b>	<b>(no change)</b>
<b>S2 LB LOCA-PCT<sub>current</sub></b>	<b>= 2056°F</b>	<b>(2050°F + 6°F)</b>
<b>S2 SB LOCA-PCT<sub>current</sub></b>	<b>= 1689°F</b>	<b>(no change)</b>

Sending a "30-Day LOCA-PCT Report" to the NRC was not necessary because the absolute value of this previously unreported change to the LOCA-PCT is less than 50°F.

If you have any questions, please call E. H. Villar at (856) 339-5456



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