

Public Service
Electric and Gas
Company

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United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

CALCULATED PEAK CLAD TEMPERATURE
SALEM GENERATING STATION
UNIT NOS. 1 AND 2
DOCKET NOS. 50-272 AND 50-311

On June 6, 1990, Public Service Electric and Gas Company (PSE&G) verbally notified NRC of a change to the calculated Peak Clad Temperature (PCT) for Salem Unit Nos. 1 and 2. The purpose of this communication is to provide the written notification required under 10CFR50.46. Although Westinghouse has determined that the change is not due to a model error, the magnitude of the change exceeds the NRC reporting threshold and, as such, is being reported by PSE&G as a significant change in calculated PCT.

PSE&G was notified by Westinghouse that a 95°F PCT penalty was being imposed on the Salem Unit Nos. 1 and 2 Small Break LOCA Analysis (SBLOCA) due to an inconsistency between the assumed purge time of the higher enthalpy main feedwater (FW) by the lower enthalpy auxiliary feedwater (AFW). The inconsistency is attributed to plant specific piping arrangements which result in longer purge times than those used in the original analysis.

The present calculated PCT for the Salem unit's SBLOCA scenario, including the identified penalty, is 1736°F for Salem Unit No. 1 and 1783°F for Salem Unit No. 2. The present large break LOCA PCT is unaffected by this inconsistency. The present large break LOCA PCT for both Salem Unit Nos. 1 and 2 is 2097°F.

The Salem Updated Final Safety Analysis Report establishes a 2200°F limit on PCT consistent with the requirements of 10CFR50.46. The calculated PCT for Salem Unit Nos. 1 and 2 remains well below this limit after inclusion of the penalty for feedwater purge time. As such no corrective action is required at this time.

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Should you have any questions, please feel free to contact us.

Sincerely,

T. M. Cummings *TMB*

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