



Public Service
Electric and Gas
Company

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LR-N970439

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

Gentlemen:

**ANNUAL PEAK FUEL CLAD TEMPERATURE REPORT
SALEM GENERATING STATION UNIT NOS. 1 AND 2
DOCKET NOS. 50-272 AND 50-311**

In accordance with the requirements of 10CFR50.46, Public Service Electric and Gas (PSE&G) hereby submits the annual fuel clad temperature report describing the changes to the calculated Peak Clad Temperature (PCT) for the Salem Generating Station (SGS) Large and Small Break Loss of Coolant Accident (LB LOCA and SB LOCA) Analyses. The current PCT is 1652 °F for SB LOCA and 2029 °F for LB LOCA.

Small Break LOCA

The SB LOCA PCT remains unchanged at 1652 °F. The SB LOCA PCT was last reported in our August 2, 1996 letter (Ref. NLR-N96227). *// 0*

Large Break LOCA

The LB LOCA PCT is 2029 °F; which is a 15 °F increase from the last reported value of 2014 °F. The 15 °F increase in PCT is due to a correction in the BASH LB LOCA evaluation model. The PCT increase is due to translating fluid conditions used for subchannel analysis of the fuel rods from one computer code to another. In performing axial interpolations to translate the SATAN fluid conditions onto the mesh nodalization used by the LOCTA code, the length of the lower core channel fluid connections to the lower plenum node was incorrectly calculated. This correction resulted in the 15 °F increase being reported for the LB LOCA PCT. *AW 1*

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In summary, the current PCT for the SGS is 1652 °F for SB LOCA and 2029 °F for LB LOCA. Should there be any questions regarding this submittal, please contact Mr. T. K. Ross of my staff at (609) 339-1222.

Sincerely,

Amy J. Dumbek, P.E.
FOR E. C. SIMPSON

Attachments

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