



Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038

Nuclear Department

July 3, 1984

U. S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D. C. 20555

Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch, No. 1

Dear Mr. Varga:

REACTOR VESSEL MATERIAL SURVEILLANCE
SALEM GENERATING STATION
NO. 2 UNIT
DOCKET NO. 50-311

Pursuant to the requirements of Appendix H to 10 CFR 50, PSE&G hereby submits WCAP - 10492, "Analysis of Capsule T from the Salem Unit 2 Reactor Vessel Radiation Surveillance Program." This report includes data required by ASTM-E-185-1973.

The test results show that the increase in the transition temperature of the weld metal and base metal is greater than the "best estimate" value predicted by the methods of Regulatory Guide 1.99 Revision 1. WCAP-10492 presents new heatup and cooldown limit curves based on the "upper limit" values predicted by Regulatory Guide 1.99.

The new curves are clearly more conservative than the current Technical Specification curves except for the 70° to 170°F range on the heatup limits curve. In this range, the current Technical Specification curve allows slightly higher pressure. Westinghouse stated that the new heatup limits curve is limited to 7.0 effective full power years (EFPY) as opposed to the 9.3 EFPY for the present Technical Specification curve, and hence the new curve is more conservative even in the 70° to 170°F range.

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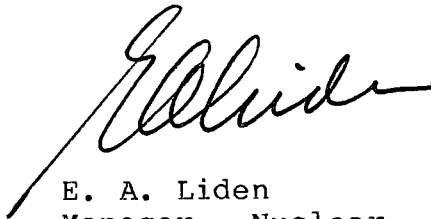
The Energy People

Westinghouse has informed us that it is common for the first surveillance capsule to yield a shift in transition temperature greater than predicted, and that testing of subsequent capsules indicates that the shift then returns to the originally predicted curve.

License Change Request 84-07 to incorporate the new curves into the plant's Technical Specifications will be transmitted to the NRC by August 1, 1984. In the interim, a field directive is being issued to implement the new curves on Unit 2.

Should you have any questions, please contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "E. A. Liden". The signature is written in a cursive style with a long, sweeping underline that extends to the left.

E. A. Liden
Manager - Nuclear
Licensing and Regulation

C Mr. Donald C. Fisher
Licensing Project Manager

Mr. James Linville
Senior Resident Inspector