Public Service
Electric and Gas
Company

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United States Nuclear Regulatory Commission
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Washington, D.C. 20555

Gentlemen:

ADDITIONAL INFORMATION TO SUPPORT AMENDMENT REQUEST
SALEM GENERATING STATION
UNIT NOS. 1 AND 2
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75
DOCKET NOS. 50-272 AND 50-311

Public Service Electric and Gas Company (PSE&G) submitted a Facility Operating License amendment request in letters dated May 11, 1992 and February 2, 1993. The proposed amendment request revised the Reactor Trip System (RTS) and Engineered Safety Features Actuation System (ESFAS) Instrumentation Sections and associated Bases, for Surveillance Test Intervals (STI) and Allowed Outage Times (AOT). These changes were line item improvements previously approved by the NRC and documented in Safety Evaluations for WCAP-10271 and Supplement 1, WCAP-10271 Supplement 2 and Supplement 2 Revision 1, and the Supplemental Safety Evaluation for WCAP-10271 Supplement 2 Revision 1.

NRC Staff approval of the generic program changes was contingent upon confirmation that certain conditions were met. One of the conditions was confirmation that the instrument setpoint methodology included sufficient margin to offset the drift anticipated as a result of less frequent surveillance. PSE&G conducted an instrument drift review of four months of Salem data, and concluded that drift was properly accounted for in the setpoint methodology. The Staff review of our submittal raised some questions concerning the adequacy of this review. PSE&G committed to conduct a more in-depth drift study, to assure that Salem instrument drift is properly accounted for in the setpoint methodology with extended STIs.

PSE&G has completed this in-depth drift study. We evaluated the performance of the Hagan comparators, delta-T and Tavg comparators, and Nuclear Instrumentation. The study analyzed the monthly Technical Specification Surveillance as-found/as-left data over a three year period (mid 1989 thru 1992). This Engineering Evaluation

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complied with the guidelines provided in Instrument Society of America (ISA) - RP67.04, Recommended Practice, Methodologies For The Determination of Setpoints For Nuclear Safety Related Instrumentation, Committee Draft 10, dated August 1992. There was no evidence of drift bias, and we observed no time dependency in the drift. The study concluded that an increase in STIs from Monthly to Quarterly was supported by Salem instrument performance, and is expected to have no observable impact on instrument reliability or performance.

Should you have any questions on this transmittal, please contact us.

Sincerely,

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