

Public Service
Electric and Gas
Company

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

Gentlemen:

SALEM GENERATING STATION
UNIT NOS. 1 AND 2
DOCKET NOS. 50-272/50-311
SAFETY EVALUATION - BREAKER COORDINATION

Attached for your information is the Safety Evaluation Report (SER) addressing breaker coordination for 1E circuits with respect to internal or external hazards. The submittal of this SER completes PSE&G's commitment made during the October 7, 1987 meeting in your offices in King of Prussia.

The SER identifies three cases of coordination; fully coordinated as found, fully coordinated after modification, and justified partial coordination. Fully coordinated circuits were those circuits found coordinated for all realistic ranges of available short circuits. Fully coordinated after modifications are circuits for which coordination could be extended to include the full range of realistic short circuit currents with relatively simple modifications. Modifications include adjusting the setpoints of relays on the 4 KV and 480 VAC circuits, installation of solid state trip devices on 480 and 230 VAC circuits, and installation of fuses on 125 VDC circuits. These modifications will be completed on each Unit prior to restart of that Unit. The partially coordinated circuits were evaluated to demonstrate that safe shutdown of the plants would not be impaired given the occurrence of an internal/external hazard. This is documented in the attached SER which concludes that adequate breaker coordination exists at all voltage levels for both plants, under postulated internal or external hazard conditions.

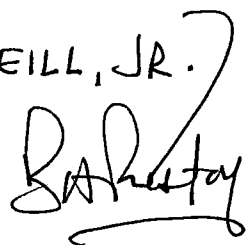
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PSE&G's ongoing electrical evaluation program has identified various circuits with voltage drops outside of the design requirement. These are being addressed with the installation of interposing relays and/or additional power cables. These modifications will be completed on each Unit prior to the restart of that Unit. PSE&G plans to restart Salem Unit 2 on or about December 13, 1987, consistent with the information provided in the Special Inspection Exit meeting held on December 4, 1987. Similarly, Unit 1 will restart at the end of the current refueling outage, scheduled for December 27, 1987.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

CORBIN A. McNEILL, JR.


Attachment

- C Mr. D. C. Fischer
USNRC Licensing Project Manager

- Mr. T. J. Kenny
USNRC Senior Resident Inspector

- Mr. W. T. Russell, Administrator
USNRC Region I

- Mr. D. M. Scott, Chief
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