October 18, 1991

Docket Nos. 50-272 and 50-311

> Mr. Steven E. Miltenberger Vice President and Chief Nuclear Officer Public Service Electric and Gas Company Post Office Box 236

Hancocks Bridge, New Jersey 08038

Dear Mr. Miltenberger:

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION, EMERGENCY DIESEL GENERATOR

SURVEILLANCE TESTING, SALEM NUCLEAR GENERATING STATION, UNITS 1

AND 2 (TAC NOSM79960 ANDM79961)

During the staff's review of Public Service Electric and Gas Company's (PSE&G) March 3, 1991, amendment request, it was found that the load profiles for various accident scenarios, as analyzed by PSE&G, exceed the 2000-hour rating of the diesel generators. This is contrary to the current UFSAR assumptions. During discussions with PSE&G staff, it was not clear whether relevant diesel generator surveillance requirements are being met in accordance with the intent of Regulatory Guide (RG) 1.108 and RG 1.9. The staff is concerned whether PSE&G has reviewed, in accordance with 10 CFR 50.59, the safety implications associated with the adequacy of the diesel generators to meet the new load profiles and the subsequent changes to the diesel generator surveillance program. There is also a question concerning the diesel fuel testing program.

In order for the staff to resolve the above issues and complete their review of the amendment request, PSE&G is requested to respond to the questions contained in the enclosure within 45-days of receipt of this letter. This requirement affects 9 or fewer respondents and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

/S/

9111180318 911018 PDR ADOCK 05000272 PDR PDR

Enclosure: Questions

cc w/enclosure: See next page James C. Stone, Senior Project Manager Project Directorate I-2 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

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## UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

October 18, 1991

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> Mr. Steven E. Miltenberger Vice President and Chief Nuclear Officer Public Service Electric and Gas Company Post Office Box 236 Hancocks Bridge, New Jersey 08038

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Sincerely,

James C. Stone, Senior Project Manager

Project Directorate I-2

Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Enclosure: Questions

cc w/enclosure: See next page



## UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

**ENCLOSURE** 

## DIESEL GENERATOR LOAD TESTING

## QUESTIONS

- 1. The current FSAR states that the maximum load would not exceed the 2000 hour rating of 2750 KW for the diesel generator. However, the current load study referenced in your submittal, identified as Salem Generating Station Diesel Generator Load Study, Report No. AEI-PSEG-8811-DR-001, indicates credible accident scenarios or "operational cases" where the diesel generator load profile exceeds the 2000 hour rating of 2750 KW. Provide a copy of the 50.59 Safety Evaluation that has been performed showing that the diesel generator loading capacity is adequate under the new load profiles.
- 2. Please provide the total auto-connected and manually connectable loads to each diesel generator. Explain how Technical Specification 4.8.1.1.2.b.5 (Salem 1) and 4.8.1.1.2.c.8 (Salem 2) has been satisfied to verify that the subject loads do not exceed the 2000 hour rating of 2750 KW when the total auto-connected loads exceed the 2000 hour rating of the emergency diesel generator.
- 3. The staff believes that load ratings represent the loads at which the diesel generator set can operate continuously with a high availability, if various specified maintenance programs are followed. The continuous rating is that load for which the supplier guarantees continuous operation at a high availability (expected to be about 95%) with an annual maintenance interval. The overload intervals (e.g. 2000 hour rating, 30 minute rating) are similarly defined except that the specified maintenance intervals are shorter. If the power output is increased into the overload ratings, wearout is accelerated and the maintenance interval needed to assure high reliability is reduced. Given the above discussion, please identify any periods of time when the diesel generator will exceed the 2000 hour rating of 2750 KW under surveillance testing and what steps have been taken with respect to the maintenance interval to ensure continued reliability of the equipment to perform its intended safety function.
- 4. PSE&G has proposed to incorporate only a portion of the model technical specifications in Generic Letter 84-15 concerning fuel oil surveillance tests. In the application there is a statement that a detailed description of the fuel oil testing program will be provided in the UFSAR. Please provide the details, including standards to be used and tests to be performed, of the fuel oil testing program.

Mr. Steven E. Miltenberger Public Service Electric & Gas Company

Salem Nuclear Generating Station

cc:

Mark J. Wetterhahn, Esquire Winston & Strawn 1400 L Street NW Washington, DC 20005-3502

Richard Fryling, Jr., Esquire Law Department - Tower 5E 80 Park Place Newark, NJ 07101

Mr. Calvin A. Vondra General Manager - Salem Operations Salem Generating Station P.O. Box 236 Hancocks Bridge, NJ 08038

Mr. S. LaBruna Vice President - Nuclear Operations Nuclear Department P.O. Box 236 Hancocks Bridge, New Jersey 08038

Mr. Thomas P. Johnson, Senior Resident Inspector Salem Generating Station U.S. Nuclear Regulatory Commission Drawer I Hancocks Bridge, NJ 08038

Dr. Jill Lipoti, Asst. Director Radiation Protection Programs NJ Department of Environmental Protection CN 415 Trenton, NJ 08625-0415

Maryland People's Counsel American Building, 9th Floor 231 East Baltimore Street Baltimore, Maryland 21202

Mr. J. T. Robb, Director Joint Owners Affairs Philadelphia Electric Company 955 Chesterbrook Blvd., 51A-13 Wayne, PA 19087 Richard B. McGlynn, Commission Department of Public Utilities State of New Jersey 101 Commerce Street Newark, NJ 07102

Regional Administrator, Region I U. S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406

Lower Alloways Creek Township c/o Mary O. Henderson, Clerk Municipal Building, P.O. Box 157 Hancocks Bridge, NJ 08038

Mr. Frank X. Thomson, Jr., Manager Licensing and Regulation Nuclear Department P.O. Box 236 Hancocks Bridge, NJ 08038

Mr. David Wersan Assistant Consumer Advocate Office of Consumer Advocate 1425 Strawberry Square Harrisburg, PA 17120

Mr. Scott B. Ungerer MGR. - Joint Generation Projects Atlantic Electric Company P.O. Box 1500 1199 Black Horse Pike Pleasantville, NJ 08232

Mr. Jack Urban General Manager, Fuels Department Delmarva Power & Light Company 800 King Street Wilmington, DE 19899

Public Service Commission of Maryland Engineering Division ATTN: Chief Engineer 231 E. Baltimore Street Baltimore, MD 21202-3486