

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report Nos. 50-272/85-29
50-311/85-27

Docket Nos. 50-272
50-311

License Nos. DPR-70, DRP-75 Priority -- Category C

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

Facility Name: Salem Generating Station Units 1 and 2

Inspection At: Hancocks Bridge, New Jersey

Inspection Conducted. December 3-5, 1985

Inspectors:

[Signature] 12/23/85
J. J. Hawkhurst, Team Leader
G. Arthur, Battelle
B. Borchardt, Resident Inspector, Salem Units 1 and 2
T. Foley, Senior Resident Inspector, Calvert Cliff
P. Gaul, Assistant ERC
T. Kenny, Senior Resident Inspector, Salem Units 1 and 2
V. Ramsdell, Battelle
G. Steetzel, Battelle
D. Vito, Senior EP Specialist

Approved by:

[Signature] 12/23/85
T. L. Warpster, Chief,
Emergency Preparedness Section

Inspection Summary:

Inspection on December 3-5, 1985 (Report Nos. 50-272/85-29 and 50-311/85-27)

Areas Inspected: Observation of the licensee's annual partial scale Emergency Exercise conducted on December 4, 1985. This inspection involved 200 hours by 9 resident and region-based inspectors and contractor personnel.

Results: No violations were identified.

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PDR ADOCK 05000272
Q PDR

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DETAILS

1. Persons Contacted

*C. Adams, Emergency Planning Staff
*K. Anderson, Emergency Planning Staff
*C. Banner, Emergency Planning Staff
S. Bravar, Public Information Officer
*W. Britz, Radiation Protection Services Manager
*R. Burricelli, General Manager Engineering and Plant Betterment
*M. Cavalier, Atlantic Electric
*N. Gerrity, Senior Operations Supervisor
*J. Gueller, Operations Manager
*C. P. Johnson, Nuclear Quality Assurance
*V. Lowenstein, Jr., Senior Shift Supervisor
*D. McCloskey, Emergency Planning Manager
*C. A. McNeill, Vice President Nuclear
*L. K. Miller, Operations
*J. Morrison, PSE&G
*L. A. Reiter, General Manager
*J. J. Schaffer, Emergency Preparedness Staff
*J. C. Trejo, PSE&G
*J. M. Zupko, General Manager

*Denotes those present at the exit interview on December 5, 1985.

2. Emergency Exercise

The Salem Nuclear Generating Station partial scale exercise was conducted on December 4, 1985.

a) Pre-Exercise Activities

Prior to the emergency exercise, NRC Region I representatives had telephone discussions with licensee representatives and provided written comments on the scope and contents of the objectives and scenario. In addition, the NRC observers attended a licensee briefing on December 3, 1985.

The exercise scenario included the following events:

- (1) Reactor trip on lo-lo level steam generator level;
- (2) Excessive vibration in Reactor Coolant Pump No. 23 (broken impeller);
- (3) Rapidly increasing reactor coolant leakage and increase in radiation monitor levels (fuel damage);
- (4) Fire in service water intake structure;

- (5) Safety injection actuated, containment Hi-Hi pressure alarm occurs (Large Break LOCA);
- (6) Containment pressure peaks at 37 psig and radiation levels reach ~600 R/hr.

The above events resulted in activation of the licensee's Emergency Plan and emergency response facilities.

b. Exercise Observation

During the conduct of the licensee's exercise, NRC team members made detailed observations of the activation and augmentation of the emergency organization; activation of emergency response personnel during the operation of the emergency response facilities. The following activities were observed:

- (1) Detection, classification, and assessment of the scenario events;
- (2) Direction and coordination of the emergency response;
- (3) Notification of licensee personnel and offsite agencies of pertinent information;
- (4) Communications/information flow, and record keeping;
- (5) Assessment and projection of radiological (dose) data and consideration of protective actions;
- (6) Provision for in-plant radiation protection;
- (7) Performance of in-plant radiological surveys;
- (8) Performance of technical support;
- (9) Performance of repair and corrective actions;
- (10) Activation and operation of EOF; and,
- (11) Dissemination of public information.

The NRC team noted that the licensee's activation and augmentation of the emergency organization; activation of the emergency response facilities; and actions and use of the facilities were consistent with their emergency response plan and implementing procedures. The team also noted the following areas where the licensee's activities were efficiently implemented:

- (1) Emergency procedures were effectively used and closely followed by operators;

- (2) The Senior Shift Supervisor used good discretion and was very familiar with the ECG, players in the control room had a good attitude;
- (3) Frequent conferences were held by the EDO, good communications between technical people and decisions were made based upon input from all managers;
- (4) Communications between the OSC, the Control Point and with other response facilities were generally good. Radio communications were maintained with in-plant teams in potential high radiation areas;
- (5) New phone system was effectively utilized for making notifications and communicating between facilities;
- (6) Emergency communications staff were familiar with procedures and coordination of corrective actions were good;
- (7) Generally most players were found to be well trained in the use of procedures and equipment; and,
- (8) Information flow was good; status display were kept current.

The following areas were identified which could have degraded the response to the simulated emergency, and should be evaluated for possible corrective action.

- (1) The controller/observer for the PASS team was not knowledgeable on PASS panel operation. Knowledgeable controllers should be provided in all areas, especially those which require specific technical expertise (50-272/85-29-01; 50-311/85-27-01).
- (2) Press release #3 on the declaration of a General Emergency at the SNGS was poorly written (50-272/85-29-02; 50-311/85-27-02) in that PSE&G's recommendations for protective action were included. A similar comment was made during the Hope Creek exercise on October 29, 1985.

The licensee demonstrated the ability to make appropriate recommendations for the protection of the health and safety of the public. In addition, the emergency preparedness program at SNGS demonstrated from a practical standpoint that all deficiencies identified in the previous annual emergency exercise (October 24, 1984) have been corrected.

3. Exit Interview

The inspectors met with licensee representatives (see detail 1 for attendees) at the conclusion of the inspection to discuss the findings of the exercise observations as detailed in this report. At no time during this inspection was any written information provided to the licensee.