

MAY 06 1983

Docket Nos. 50-272
and 50-311

Mr. R. A. Uderitz
Vice President - Nuclear
Public Service Electric and Gas Company
Post Office Box 236
Hancocks Bridge, New Jersey 08038

Dear Mr. Uderitz:

The Commission has issued the enclosed Order for Salem Nuclear Generating Station, Unit Nos. 1 and 2, confirming your commitments to implement and/or maintain the items specified in your letter to me dated April 28, 1983, subject "Corrective Action Summary, Reactor Trip Breaker Failures."

A copy of this Order is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by:
Robert Purple
for

Darrell G. Eisenhower, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Enclosure:
Order

cc w/enclosure:
See next page

8305180830 830506
PDR ADOCK 05000272
S PDR

DISTRIBUTION
Docket ✓ RDiggs
NRC PDR Gray
L PDR
NSIC
ORB#1 Rdg
DEisenhut
ORAB
CParrish
DFischer
OELD
DFischer
OELD
ELJordan
JMTaylor
TBarnhart-8
ACRS-10
OPA

OFFICE	ORB#1:DL	ORB#1:DL	ORB#1:DL	AD/OR:DL	D/DL	D/NRR	
SURNAME	CParrish	DFischer:dm	SVarga	GLainas	DEisenhut	HDenton	
DATE	05/4/83	05/4/83	05/4/83	05/4/83	05/5/83	05/ /83	

Mr. R. A. Uderitz
Public Service Electric and Gas Company

cc: Mark J. Wetterhahn, Esquire
Conner and Wetterhahn
Suite 1050
1747 Pennsylvania Avenue, NW
Washington, D. C. 20006

Richard Fryling, Jr., Esquire
Assistant General Solicitor
Public Service Electric and Gas Company
P.O. Box 570 - Mail Code T5E
Newark, New Jersey 07101

Gene Fisher, Bureau of Chief
Bureau of Radiation Protection
380 Scotch Road
Trenton, New Jersey 08628

Mr. Henry J. Midura, General Manager -
Salem Operations
Public Service Electric and Gas Company
P. O. Box E
Hancocks Bridge, New Jersey 08038

Mr. Dale Bridenbaugh
M.H.B. Technical Associates
1723 Hamilton Avenue
San Jose, California 95125

Leif J. Norrholm, Resident Inspector
Salem Nuclear Generating Station
U. S. Nuclear Regulatory Commission
Drawer I
Hancocks Bridge, New Jersey 08038

Richard F. Engel
Deputy Attorney General
Department of Law and Public Safety
CN-112
State House Annex
Trenton, New Jersey 08625

Richard B. McGlynn, Commissioner
Department of Public Utilities
State of New Jersey
101 Commerce Street
Newark, New Jersey 07102

Mr. Edwin A. Liden, Manager
Nuclear Licensing and Regulation
Public Service Electric and Gas Co.
Post Office Box 236
Hancocks Bridge, New Jersey 08038

Regional Radiation Representative
EPA Region II
26 Federal Plaza
New York, New York 10007

Mr. R. L. Mittl, General Manager -
Nuclear Assurance and Regulation
Public Service Electric and Gas Company
Mail Code T16D - P.O. Box 570
Newark, New Jersey 07101

Regional Administrator - Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

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

Mr. Alfred C. Coleman, Jr.
Mrs. Eleanor G. Coleman
35 K Drive
Pennsville, New Jersey 08070

Mr. R. A. Uderitz
Public Service Electric and Gas Company

cc: Carl Valore, Jr., Esquire
Valore, McAllister, Aron and
Westmoreland, P.A.
535 Tilton Road
Northfield, New Jersey 08225

June D. MacArtor, Esquire
Deputy Attorney General
Tatnall Building
P. O. Box 1401
Dover, Delaware 19901

Harry M. Coleman, Mayor
Lower Alloways Creek Township
Municipal Hall
Hancocks Bridge, New Jersey 08038

Mr. Charles P. Johnson
Assistant To Vice President - Nuclear
Public Service Electric and Gas Company
P. O. Box 570
80 Park Plaza - 15A
Newark, New Jersey 07101

UNITED STATES OF AMERICA
 NUCLEAR REGULATORY COMMISSION

In the Matter of)

PUBLIC SERVICE ELECTRIC)
 AND GAS COMPANY)

(Salem Nuclear Generating)
 Station, Units 1 & 2))

) Docket Nos. 50-272 and 50-311
) License Nos. DPR-70 and DPR-75

ORDER MODIFYING LICENSE EFFECTIVE IMMEDIATELY

I.

Public Service Electric and Gas Company (the licensee) holds License Nos. DPR-70 and DPR-75 which authorize operation of Units 1 and 2 of the Salem Nuclear Generating Station. The facilities are Westinghouse pressurized water reactors (PWRs) located at the licensee's site at Hancock's Bridge, Salem County, New Jersey.

II.

On February 25, 1983, an event occurred at Unit 1 of the Salem Nuclear Generating Station when the control rods failed to insert when the reactor-trip circuit breakers failed to automatically open following receipt of a valid trip signal from the Reactor Protection System (RPS). The manual trip system was used to shut down the reactor. Subsequently, it was concluded by the licensee that the failure to trip was caused by a malfunction of the undervoltage (UV) trip attachments in both reactor-trip circuit breakers. Evaluation of the event of February 25, 1983 revealed that a similar failure had occurred on February 22, 1983, at Salem 1.

The NRC review of the event revealed a number of significant deficiencies. This review is set forth in NUREG-0977, "NRC Fact-Finding Task Force Report on the ATWS Events at Salem Nuclear Generating Station, Unit 1, on February 22 and 25, 1983," March 1983, which is hereby incorporated by reference.

If there were a potentially severe transient, from a worst case set of initial conditions, and the reactor shutdown system did not function, an extremely severe accident could occur in the absence of timely operator action. Therefore, the aforementioned failures are technically very serious.

III.

Analysis of the event described in Section II reveals operational and management issues at the Salem facilities which are discussed in the staff's Safety Evaluation Report.

By letters dated March 1, March 8, March 14, March 18, March 23, April 4, April 7, April 8, April 11, April 13, April 22, April 27, and April 28, 1983, the licensee submitted its Corrective Action Program related to the reactor trip breaker failures. This program includes short-term remedial actions to be completed prior to startup of the unit and a number of longer term items which have not been completed but for which the licensee has established completion dates. The licensee's letter dated April 28, 1983 summarizes the licensee's commitments for corrective action.

The various remedial actions involve equipment, operational and management issues. The equipment issues involve (1) safety classification of breakers,

(2) identification of cause of failure, (3) verification testing and (4) maintenance and surveillance procedures. The operational issues involve (1) operating procedure for reactor trips and anticipated transients without scram (ATWS), (2) operator training, and (3) operator response. The management issues involve (1) master equipment list, (2) procurement procedures, (3) work-order procedures, (4) post-trip review, (5) timeliness of event notification, (6) updating vendor-supplied information, (7) involvement of QA personnel with other station departments, (8) post-maintenance operability testing and (9) overall management capability and performance.

The NRC staff has reviewed the corrective action program as discussed in the staff's Safety Evaluation Report, and determined that the licensee's actions are necessary to assure continued safe operation of the facility. In addition, I have determined that because of the history of the Salem facility described above, the need for further long-term actions to increase the reliability of the mitigation features of the Salem facility must also be addressed.

Accordingly, in view of the importance of these issues to safe operation, I have determined that the licensee's corrective actions are required by the public health, safety, and interest, and, therefore, should be confirmed by an immediately effective Order.

IV.

In view of the foregoing, pursuant to Sections 103, 161(i), and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED EFFECTIVE IMMEDIATELY THAT:

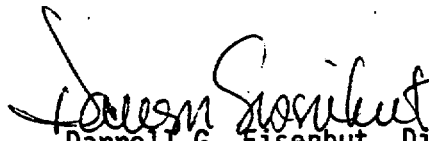
1. The licensee shall implement and/or maintain the items specified in the licensee's letter dated April 28, 1983.

V.

The Licensee may request a hearing on this Order within 30 days of the date of this Order. Any request for a hearing shall be submitted to the Director, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. A copy of the request or answer shall also be sent to the Executive Legal Director at the same address. ANY REQUEST FOR A HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

If a hearing is held on this Order, the Commission will issue an order designating the time and place of hearing. If a hearing is held, the issue to be considered at such a hearing shall be whether this Order should be sustained.

FOR THE NUCLEAR REGULATORY COMMISSION



Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland
this 6 day of May 1983.