

January 31, 1984

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Docket Nos. 50-272
and 50-311

Mr. Richard 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 Modification of Order modifying the Order dated May 6, 1983 for the Salem Nuclear Generating Station Units 1 and 2. This Order extends the completion date for Corrective Action Program Item C.8.a.4 to June 30, 1984. The completion date specified in the May 6, 1983 Order was January 1984.

In accordance with your request made by letter dated November 14, 1983, this extension is granted to allow Public Service Electric and Gas Company to fully research every safety related component and further, to provide the additional time required to ensure accuracy in the development process.

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

Sincerely,

Original signed by
S. A. Varga

Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

Enclosure:
Modification of Order

cc w/enclosure:
See attached list

ORB #1	CP	ORB #1	DF
CParrish/jm		D Fischer	
1/26/84		1/26/84	

ORB #1	OEL	AD:DL	P:DR
S Varga	J LIEBERMAN	G Lainas	D Eisenhut
1/27/84	1/27/84	1/27/84	1/31/84

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

Salem Nuclear Generating Station
Units 1 and 2

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Salem Nuclear Generating Station
Units 1 and 2

- 2 -

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UNITED STATES OF AMERICA
 NUCLEAR REGULATORY COMMISSION

In the Matter of)	
)	
PUBLIC SERVICE ELECTRIC)	Docket Nos. 50-272 and 50-311
AND GAS COMPANY)	
)	
(Salem Nuclear Generating)	
Station, Units 1 & 2))	

MODIFICATION OF MAY 6, 1983 ORDER

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. 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 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. There had also been a previous event at Salem 2 involving a failure of one reactor trip circuit breaker to trip on January 6, 1983.

The NRC review of the event revealed a number of significant deficiencies relating to management supervision and control of the procedures governing the classification of the reactor trip breakers as safety-related, management supervision of maintenance techniques, and management attention to the safety implications of system malfunctions. This review was 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," dated March 1983.

By letters dated March 1, March 8, March 13, March 23, April 4, April 7, April 8, August 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 included short-term remedial actions to be completed prior to startup of the unit and a number of longer term items which had not been completed but for which the licensee has established completion dates. The NRC staff reviewed the corrective action program and determined that the licensee's actions were necessary to assure continued safe operation of the facility.

Accordingly, by Order dated May 6, 1983, the licensee was directed to implement and maintain the items specified in the Corrective Action Program as more fully detailed in the licensee's letter dated April 28, 1983. One long term corrective action item identified in the Program required the development of a comprehensive Managed Maintenance Program for safety related systems to be implemented by January 1984. (Item C.8.a.4)

A Managed Maintenance Program had been originally initiated by the licensee in July 1982 to provide preventive maintenance for major components of both safety and non-safety related systems. Following the events of February 1983,

the scope of the program was modified and increased such that all safety related components would be addressed by January 1984. Non-safety related components and systems were to be considered at a later date.

At the time the January 1984 commitment was made, the licensee believed the date to be achievable. However, due to the magnitude of the effort required to fully research every safety related component and the attention to detail required to ensure accuracy in the development process, the licensee now believes that additional time will be required to complete the programs, and that attempting to complete the program by the January 1984 commitment date would compromise the accuracy and quality of the program, thereby diminishing its overall effectiveness.

III.

Accordingly by letter dated November 14, 1983, the licensee requested that the May 6, 1983 Order for Salem Generating Station Units 1 and 2 be amended to incorporate a revised schedule.

The licensee proposes that the following measures be taken in lieu of complete implementation of the Managed Maintenance Program by January 1984:

1. Implementation of the program for each safety related system is expected to commence as soon as its development is complete.
2. The fifteen (15) systems identified in the licensee's letter dated November 14, 1983, will be completed by February 1984. These systems were selected based upon their importance in the safe shutdown and cooling of the reactor plant and in minimizing the potential release of radioactive material to the general public. Planned maintenance

activities on these systems are expected to be performed as scheduled in the program.

3. Safety related systems not identified in the licensee's letter dated November 14, 1983, will be reviewed and critical components of those systems will have appropriate interim programs established by February 1984. Planned maintenance activities on these components are expected to be performed as scheduled in the program.
4. Implementation of the program for each safety related component and system not identified in the licensee's letter dated November 14, 1983 is expected to begin as soon as it is developed. This will be completed by June 1984.
5. If a new procedure or a revision to an existing procedure is required for a particular planned maintenance activity, that procedure or revision will be completed prior to the scheduled date of that activity.
6. A program will be established to identify those safety related items which have not been included in the Managed Maintenance Program as of June 30, 1984. For example, implementation would be delayed for an item where a design change has been installed following the time when the original Managed Maintenance Program data was collected, or where a discrepancy such as conflicting information between two source documents has been identified and the engineering evaluation/resolution would then be pending. This program will contain a scheduled resolution date for each such item.

The Commission has been monitoring the status of all long lead items identified in the licensee's Corrective Action Program. The review has determined that the licensee is making a diligent effort to complete the Managed Maintenance Program and has established good cause for its proposed

delay. Some of the reasons for the proposed delay are rejection of vendor initial submittals because of insufficient quality, increasing program scope, and administrative and computer difficulties during the early part of the program. The program is now working smoothly. A total of 50 fulltime individuals are now being applied to the program. The licensee appears to have properly prioritized the systems, and the more important systems will be completed by February 1984. The Commission has therefore determined to permit an extension of the completion date for the program to June 1984.

IV.

Accordingly, pursuant to the Atomic Energy Act of 1954 as amended, including Sections 103 and 161i and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED that the completion date for Item C.8.a.4 of the licensee's Corrective Action Program required pursuant to the May 6, 1983 "Order Modifying License Effective Immediately" is modified to as follows:

1. The Managed Maintenance Program for the 15 systems identified in the licensee's November 14, 1983 letter shall be completed by February 28, 1984.
2. An interim program for critical components of safety related systems not identified in the licensee's November 14, 1983 letter shall be completed by February 28, 1984.
3. Development of the Managed Maintenance Program for all safety related components and systems shall be completed by June 30, 1984.

The Order of May 6, 1983, except as modified herein, remains in effect in accordance with its terms.

V.

The licensee may request a hearing on this Order. Any request for hearing shall be submitted within 20 days of the date of publication of this Order in the Federal Register to the Director, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission, Washington, D.C. 20555. A copy of the request shall also be sent to the Executive Legal Director at the same address.

If a hearing is to be held, the Commission will issue an Order designating the time and place of any such hearing. If a hearing is held concerning this Order, the issue to be considered at such a hearing shall be whether the completion date for Item C.8.a.4 of the licensee's Corrective Action Program, required pursuant to the May 6, 1983 "Order Modifying License Effective Immediately" should be modified as provided in Section IV of this Order.

This Order shall become effective upon the licensee's consent or upon expiration of the period within which the licensee may request a hearing or, if a hearing is requested by the licensee, on the date specified in an Order issued following further proceedings on this Order.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Purple, Deputy Director
Division of Licensing
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland
this 31st day of January, 1984