

SEP 07 1982

DISTRIBU<sup>V</sup>  
Docket File  
NRC PDR  
Local PDR  
ORB 1 File  
D. Eisenhut  
C. Parrish  
W. Ross  
OELD  
SECY (w/trans form)  
OI&E (2)  
L. Schneider  
T. Barnhart (8)  
D. Brinkman  
ACRS(10)  
OPA (Clare Miles)  
R. Diggs  
R. Ballard  
NSIC  
ASLAB

Docket Nos. 50-272  
and 50-311

Mr. Richard A. Uderitz, Vice President -  
Nuclear  
Public Service Electric and Gas Company  
Mail Code T15A - P. O. Box 570  
Newark, New Jersey 07101

Dear Mr. Uderitz:

The Commission has issued the enclosed Amendment No. 46 to Facility Operating License No. DPR-70 and Amendment No. 11 to Facility Operating License No. DPR-75 for the Salem Nuclear Generating Station, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in partial response to your application transmitted by letter dated October 23, 1981.

These amendments modify Technical Specifications pertaining to administrative controls; specifically, composition of shift crews, overtime limitations and qualifications of a Shift Technical Advisor.

The limited scope of our review of your proposed reorganization that is addressed by this amendment has been discussed with your staff. We have made modifications to your proposed Technical Specifications related to the Shift Technical Advisor with your staff's approval. This amendment completes all action required to fulfill Action Items I.A.1.1 "Shift Technical Advisor" and I.A.1.3 "Shift Manning" required by NUREG-0737 "TMI Action Plan," for Salem Units 1 and 2.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

ORIGINAL SIGNED

William J. Ross, Project Manager  
Operating Reactors Branch No. 1  
Division of Licensing

Enclosures:

1. Amendment No. 46 to DPR-70
2. Amendment No. 11 to DPR-75
3. Safety Evaluation
4. Notice of Issuance

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AMENDMENT

cc w/enclosures:  
See next page

Received  
8/23/82  
of

OFFICE	ORB 1 CParrish	ORB 1 WRoss	ORB 1 SVarga	AD-OR GLatinas	OELD MICKA RMAN		
SURNAME	8/23/82	8/17/82	8/17/82	8/10/82	8/31/82		
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P	PDR ADOCK 05000272						

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

cc: Mark J. Wetterhahn, Esquire  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

PUBLIC SERVICE ELECTRIC AND GAS COMPANY  
PHILADELPHIA ELECTRIC COMPANY  
DELMARVA POWER AND LIGHT COMPANY  
ATLANTIC CITY ELECTRIC COMPANY

DOCKET NO. 50-272

SALEM NUCLEAR GENERATING STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 46  
License No. DPR-70

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) dated October 23, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-70 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 46, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: September 7, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 46

FACILITY OPERATING LICENSE NO. DPR-70

DOCKET NO. 50-272

Revise Appendix A as follows:

Remove Pages

6-4  
6-4a

Insert Pages

6-4  
6-4a  
6-4b

TABLE 6.2-1

MINIMUM SHIFT CREW COMPOSITION

SALEM UNIT 1

WITH UNIT 2 IN MODES 5 OR 6 OR DE-FUELED		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODES 1, 2, 3 & 4	MODES 5 & 6
SS	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1 <sup>a</sup>	none
RO	2	1
AO	3	2 <sup>b</sup>
STA	1	none
Maintenance Electrician	1	none

WITH UNIT 2 IN MODES 1, 2, 3 OR 4		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODES 1, 2, 3 & 4	MODES 5 & 6
SS	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1 <sup>a</sup>	none
RO	2	1
AO	3 <sup>c</sup>	1
STA	1 <sup>a</sup>	none
Maintenance Electrician	1 <sup>a</sup>	none

a/ Individual may fill the same position on Unit 2

b/ One of the two required individuals may fill the same position on Unit 2, such that there are a total of three AOs for both units.

c/ One of the three required individuals may fill the same position on Unit 2, such that there are a total of five AOs for both units.

TABLE 6.2-1 (Continued)

- SS - Shift Supervisor with a Senior Reactor Operators License on Unit 1
- SRO - Individual with a Senior Reactor Operators License on Unit 1
- RO - Individual with a Reactor Operators License on Unit 1
- AO - Auxiliary Operator
- STA - Shift Technical Advisor

Except for the Shift Supervisor, the Shift Crew Composition may be one less than the minimum requirements of Table 6.2.1 for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the Shift Crew Composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 1, 2, 3 or 4, an individual (other than the Shift Technical Advisor) with a valid SRO license shall be designated to assume the Control Room command function. During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 5 or 6, an individual with a valid RO license (other than the Shift Technical Advisor) shall be designated to assume the Control Room command function.

6.2.3 SHIFT TECHNICAL ADVISOR

6.2.3.1 The Shift Technical Advisor shall serve in an advisory capacity to the Shift Supervisor on matters pertaining to the engineering aspects assuring safe operation of the unit.

6.2.3.2 The Shift Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline with specific training in plant design and response and analysis of the plant for transients and accidents.



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

PUBLIC SERVICE ELECTRIC AND GAS COMPANY  
PHILADELPHIA ELECTRIC COMPANY  
DELMARVA POWER AND LIGHT COMPANY  
ATLANTIC CITY ELECTRIC COMPANY

DOCKET NO. 50-311

SALEM NUCLEAR GENERATING STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 11  
License No. DPR-75

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) dated October 23, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;  
and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

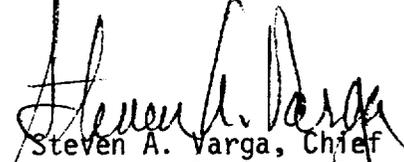
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-75 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 11, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: September 7, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 11

FACILITY OPERATING LICENSE NO. DPR-75

DOCKET NO. 50-311

Revise Appendix A as follows:

Remove Page

6-6

Insert Page

6-6

## ADMINISTRATIVE CONTROLS

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### 6.2.3 SAFETY REVIEW GROUP (SRG)

#### FUNCTION

6.2.3.1 The SRG shall function to examine plant operating characteristics, NRC issuences, industry advisories, Licensee Event Reports and other sources which may indicate areas for improving plant safety.

#### COMPOSITION

6.2.3.2 The SRG shall be composed of at least five dedicated, full-time engineers located onsite.

#### RESPONSIBILITIES

6.2.3.3 The SRG shall be responsible for maintaining surveillance of plant activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

#### AUTHORITY

6.2.3.4 The SRG shall make detailed recommendations for revised procedures, equipment modifications, or other means of improving plant safety to the General Manager-Licensing and Environment.

### 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall serve in an advisory capacity to the Shift Supervisor on matters pertaining to the engineering aspects assuring safe operation of the unit.

6.2.4.2 The Shift Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline with specific training in plant design and response and analysis of the plant for transients and accidents.

### 6.3 FACILITY STAFF QUALIFICATIONS

6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees, except for the Radiation Protection Engineer who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975.

### 6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be coordinated by each functional level manager (Department Head) at the facility and maintained under the direction of the Training Manager and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and Appendix "A" of 10 CFR Part 55 and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees, and shall include familiarization with relevant industry operational experience.

\*Not responsible for sign-off function.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. DPR-70  
AND AMENDMENT NO. 11 TO FACILITY OPERATING LICENSE NO. DPR-75

PUBLIC SERVICE ELECTRIC AND GAS COMPANY,  
PHILADELPHIA ELECTRIC COMPANY,  
DELMARVA POWER AND LIGHT COMPANY, AND  
ATLANTIC CITY ELECTRIC COMPANY

SALEM NUCLEAR GENERATION STATION, UNIT NOS. 1 AND 2

DOCKET NOS. 50-272 AND 50-311

Introduction

By letter dated October 23, 1981, Public Service Electric and Gas Company (the licensee) submitted a general revision of the Administrative Controls in the Appendix A Technical Specifications for Salem Units 1 and 2. These revisions reflected an impending organizational change at the Salem Nuclear Generating Station in the licensee's corporate structure. Subsequently, the staff was informally advised by the licensee that the proposed reorganization would not be completed until the third quarter of 1982. Based on this information, we postponed action on the October 23, 1981 requests until the reorganization could be implemented.

The present review consisted of a review of selective portions of the licensee's October 23, 1981 that pertain to TMI-related items. These action items, I.A.1.1 and I.A.1.3 in NUREG-0737 "Clarification of TMI Action Plan Requirements" relate to the training of Shift Technical Advisors and new requirements for shift manning. Both items required submittal of appropriate Technical Specifications for staff review. We have extracted these sections for separate review in order to maintain the Commission's approved schedule of these TMI Actions.

Evaluation

Item I.A.1.1 in NUREG-0737 relates to the need for, and qualifications of, an on-shift technical advisor (STA) to the shift supervisor. This position was included as part of the Salem-1 shift crew by Amendment 31 dated January 6, 1981 and was made part of the full-power license for Unit 2 dated May 20, 1981. Subsequently, by letter dated January 11, 1982, the staff advised the licensee that the Technical Specifications for Salem Units 1 and 2 required further revision to show that the STA meets the levels of technical education and training described in NUREG-0737. The licensee responded that this information had been included in the October 23, 1981 letter and recommended development of new Technical Specifications based on that submittal. These Technical Specifications meet the intent of Action Item I.A.1.1 and are acceptable. This completes implementation of this Action Item for both units.

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Amendment 31 to the Salem-1 license also updated the shift crew composition for Salem-1 as a result of the licensing and operation of Salem-2. In part, this revision added limitations on overtime work by licensed operators. The subject of overtime has been reviewed further by the NRC and a Commission policy has been developed pertaining to factors causing fatigue of operating personnel. This policy statement was transmitted to the licensee by Generic Letter 82-02 on February 8, 1982. Inasmuch as the overtime requirements in the Salem-1 Technical Specifications are not consistent with the Commission's policy statement and were never included in the Salem-2 Technical Specifications they are being deleted. It is the intent of the staff to provide future guidance relative to development of Technical Specifications based on the Commission policy statement.

NUREG-0737 Item I.A.1.3 also describes the Commission's position on shift manning for normal plant operation. The personnel listed in the current Table 6.2-1 of the Technical Specifications for both units meet the Commission's position. The licensee proposes to revise this Table 6.2-1 in the Unit 1 Technical Specifications to further upgrade the shift crew at Unit 1 by making it equivalent to the crew in Salem-2 Technical Specifications. This revision consists of adding one Maintenance Electrician to each crew when Unit 1 is in Modes 1, 2, 3, and 4. This Electrician may fill the same position on Unit 2. The licensee also proposes to add a third Auxiliary Operator (AO) (non-licensed) to the staff of Unit 1. Unit 2 already lists three AO's. One of the three AO's may fill the same position on Unit 2 such that there are a total of five AO's for both units. These revisions will increase the capability of the shift crew for both units and are acceptable. These changes also make these sections of the Technical Specifications identical for both units. The requirements of NUREG-0737 Item I.A.1.3 "Shift Manning," have now been completed for both units.

#### Environmental Consideration

We have determined that the amendments do not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

#### Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or consequences of an accident previously evaluated, do not create the possibility of an accident of a type different from any evaluated previously, and do not involve a significant reduction in a margin of safety, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: September 7, 1982

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-272 AND 50-311PUBLIC SERVICE ELECTRIC AND GAS COMPANY,  
PHILADELPHIA ELECTRIC COMPANY,  
DELMARVA POWER AND LIGHT COMPANY, AND  
ATLANTIC CITY ELECTRIC COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 46 to Facility Operating License No. DPR-70 and Amendment No. 11 to Facility Operating License No. 75, issued to Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees), which revised Technical Specifications for operation of the Salem Nuclear Generating Station, Unit Nos. 1 and 2 (the facilities) located in Salem County, New Jersey. The amendments are effective as of the date of issuance.

The amendments modify the Technical Specifications pertaining to administrative controls, specifically, composition of shift crews, over-time limitations and qualifications of a shift technical advisor.

The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was not required since the amendments do not involve a significant hazards consideration.

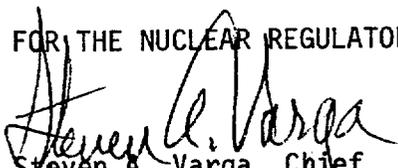
- 2 -

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendments dated October 23, 1981, (2) Amendment Nos. 46 and 11 to License Nos. DPR-70 and DPR-75, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Salem Free Public Library, 112 West Broadway, Salem, New Jersey. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555. Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 7th day of September, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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