

Mr. Leon R. Eliason
Chief Nuclear Officer & President-
Nuclear Business Unit
Public Service Electric & Gas
Company
Post Office Box 236
Hancocks Bridge, NJ 08038

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNIT NOS. 1 AND 2 (TAC NOS. M96417 AND M96353)

Dear Mr. Eliason:

The Commission has issued the enclosed Amendment Nos. 186 and 169 to Facility Operating License Nos. DPR-70 and DPR-75 for the Salem Nuclear Generating Station, Unit Nos. 1 and 2. These amendments consist of changes to the Technical Specifications (TSs) for Units 1 and 2 and the license for Unit 2, in response to your application dated August 27, 1996, as supplemented October 24, 1996.

These amendments delete License Condition 2.C.(24)(a) for Unit 2, which required establishment by June 3, 1981, of regularly scheduled 8-hour shifts without reliance on routine use of overtime. The proposed amendments also modify TS 6.2.2 for both units to delete the reference to Generic Letter 82-12 and require that administrative controls be established which will ensure that adequate shift coverage is maintained without heavy use of overtime for individuals.

A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

(original signed by)
Leonard N. Olshan, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Docket Nos. 50-272/311

- Enclosures: 1. Amendment No. 186 to License No. DPR-70
- 2. Amendment No. 169 to License No. DPR-75
- 3. Safety Evaluation

cc w/encls: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

December 17, 1996

Mr. Leon R. Eliason
Chief Nuclear Officer & President-
Nuclear Business Unit
Public Service Electric & Gas
Company
Post Office Box 236
Hancocks Bridge, NJ 08038

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A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in cursive script, appearing to read "L. N. Olshan".

Leonard N. Olshan, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-272/311

Enclosures: 1. Amendment No. 186 to
License No. DPR-70
2. Amendment No. 169 to
License No. DPR-75
3. Safety Evaluation

cc w/encls: See next page

Mr. Leon R. Eliason
Public Service Electric & Gas
Company

Salem Nuclear Generating Station,
Units 1 and 2

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

PUBLIC SERVICE ELECTRIC & 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. 186
License No. DPR-70

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The application for amendment filed by the Public Service Electric & Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) dated August 27, 1996, as supplemented October 24, 1996, 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 set forth in 10 CFR Chapter I;
 - 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 and Environmental Protection Plan

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 186, 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 its date of issuance, to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: December 17, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 186

FACILITY OPERATING LICENSE NO. DPR-70

DOCKET NO. 50-272

Revise Appendix A as follows:

Remove Page

6-2

Insert Page

6-2

ADMINISTRATIVE CONTROLS

6.2.2 FACILITY STAFF

The facility organization shall be subject to the following:

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;
- b. At least one licensed Reactor Operator shall be in the control room when fuel is in the reactor. In addition, at least one licensed Senior Reactor Operator shall be in the Control Room area at all times.
- c. All CORE ALTERATIONS shall be observed and directly supervised by a licensed Senior Reactor Operator who has no other concurrent responsibilities during this operation.
- d. Administrative controls shall be developed and implemented to limit the working hours of personnel who perform safety-related functions (e.g., senior reactor operators, reactor operators, auxiliary operators, health physicists, and key maintenance personnel, et al.). The controls shall include guidelines on working hours that ensure that adequate shift coverage is maintained without heavy use of overtime for individuals.

Any deviation from the working hour guidelines shall be authorized in advance by the plant manager or his designee, in accordance with approved administrative procedures and with documentation of the basis for granting the deviation.

Controls shall be included in the procedure such that overtime shall be reviewed monthly by the plant manager or his designee to ensure that excessive hours have not been assigned. Routine deviation from the above guidelines shall not be authorized.

- e. The Operating Engineer, Senior Nuclear Shift Supervisors, and Nuclear Shift Supervisors shall each hold a senior reactor operator license. The Nuclear Control Operators shall hold reactor operator licenses.
- f. The Operations Manager shall meet one of the following:
 - (1) Hold an SRO License.
 - (2) Have held an SRO license for a similar unit (PWR).



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

PUBLIC SERVICE ELECTRIC & 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. 169
License No. DPR-75

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The application for amendment filed by the Public Service Electric & Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) dated August 27, 1996, as supplemented October 24, 1996, 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 set forth in 10 CFR Chapter I;
 - 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.

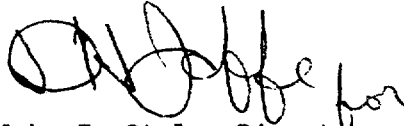
2. Accordingly, the license is amended by deleting License Condition 2.C.(24)(a) on page 15 of Facility Operating License No. DPR-75*, and the license is also amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-75 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 169, 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 its date of issuance, to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

- Attachments:
1. Page 15 of License No. DPR-75
 2. Changes to the Technical Specifications

Date of Issuance: December 17, 1996

*Page 15 is attached, for convenience, for the composite license to reflect this change.

ATTACHMENT TO LICENSE AMENDMENT NO. 169

FACILITY OPERATING LICENSE NO. DPR-75

DOCKET NO. 50-311

1. Revise License as follows:

Remove Page

15

Insert Page

15

2. Revise Appendix A as follows:

Remove Page

6-2

Insert Page

6-2

(21) Sump Performance (Section 6.3.3, Supplement 5)

- (a) Prior to resuming power operation following the first refueling outage, PSE&G shall provide a detailed survey of insulation materials.
- (b) Prior to operation above five percent power, control room operators shall be trained in the recognition and mitigation of LPI performance degradation.

(22) Radiation Protection Organization (Section 12.0, Supplement 5)

PSE&G shall complete the reorganization actions and programs associated with radiation protection no later than November 1, 1981.

(23) Category I Masonry Walls (Section 3.8.3, Supplement 5)

- (a) Prior to operation above five percent power, PSE&G shall submit the information requested in the NRC letter dated January 8, 1981.
- (b) Prior to startup following the first refueling, PSE&G shall resolve the difference between the staff criteria and the criteria used by PSE&G to the satisfaction of the NRC and implement the required fixes that might result from such a resolution.

(24) TMI Action Plan Conditions (Section 22.2, Supplement 5)

Unless otherwise noted, each of the following conditions references the appropriate section of Supplement No. 5 to the Safety Evaluation Report (NUREG-0517) for the Salem Nuclear Generation Station, Unit 2, dated January 1981 and shall be completed to the satisfaction of the NRC by the times indicated.

(a) DELETED

(b) Short-Term Accident Analysis and Procedure Revision (Section 22.2, I.C.1 and I.C.8)

The operators shall be briefed on the revisions to the emergency operation instruction within 30 effective full power days of operation.

ADMINISTRATIVE CONTROLS

FACILITY STAFF (Continued)

- b. At least one licensed Reactor Operator shall be in the control room when fuel is in the reactor. In addition, at least one licensed Senior Reactor Operator shall be in the Control Room area at all times.
- c. All CORE ALTERATIONS shall be observed and directly supervised by a licensed Senior Reactor Operator who has no other concurrent responsibilities during this operation.
- d. Administrative controls shall be developed and implemented to limit the working hours of personnel who perform safety-related functions (e.g., senior reactor operators, reactor operators, auxiliary operators, health physicists, and key maintenance personnel, et al.). The controls shall include guidelines on working hours that ensure that adequate shift coverage is maintained without heavy use of overtime for individuals.

Any deviation from the working hour guidelines shall be authorized in advance by the plant manager or his designee, in accordance with approved administrative procedures and with documentation of the basis for granting the deviation.

Controls shall be included in the procedure such that overtime shall be reviewed monthly by the plant manager or his designee to ensure that excessive hours have not been assigned. Routine deviation from the above guidelines shall not be authorized.

- e. The Operating Engineer, Senior Nuclear Shift Supervisors, and Nuclear Shift Supervisors shall each hold a senior reactor operator license. The Nuclear Control Operators shall hold reactor operator licenses.
- f. The Operations Manager shall meet one of the following:
 - (1) Hold an SRO license.
 - (2) Have held an SRO license for a similar unit (PWR).



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NOS. 186 AND 169 TO FACILITY OPERATING

LICENSE NOS. DPR-70 AND DPR-75

PUBLIC SERVICE ELECTRIC & GAS COMPANY

PHILADELPHIA ELECTRIC COMPANY

DELMARVA POWER AND LIGHT COMPANY

ATLANTIC CITY ELECTRIC COMPANY

SALEM NUCLEAR GENERATING STATION, UNIT NOS. 1 AND 2

DOCKET NOS. 50-272 AND 50-311

1.0 INTRODUCTION

By letter dated August 27, 1996, as supplemented October 24, 1996, the Public Service Electric & Gas Company (the licensee) submitted a request for changes to the Salem Nuclear Generating Station, Unit Nos. 1 and 2, Technical Specifications (TSs). The requested changes would delete License Condition 2.C.(24)(a) for Unit 2 which required establishment by June 3, 1981, of regularly scheduled 8-hour shifts without reliance on routine use of overtime. The requested change would also revise TS 6.2.2 for both units to delete the reference to Generic Letter 82-12 and require that administrative controls be established which will ensure that adequate shift coverage is maintained without heavy use of overtime for individuals. The October 24, 1996, letter provided clarifying information that did not change the initial proposed no significant hazards consideration determination nor the original notice.

2.0 EVALUATION

On February 11, 1982, the NRC published in the Federal Register (47 FR 7352), the "Policy on Factors Causing Fatigue of Operating Personnel at Nuclear Reactors." In June 1982, the NRC revised the policy and subsequently disseminated the revision in Generic Letter 82-12, "Nuclear Plant Staff Working Hours," which recommended that licensees incorporate specific working hour limits in plant TSs to minimize the potential for personnel errors resulting from fatigue. The staff subsequently determined that few events at U.S. nuclear plants have been attributed to inadequate control of working hours and that control of working hours through administrative procedures provides reasonable assurance that personnel overtime will not jeopardize safe plant operation. Control of overtime through administrative procedures is consistent with Action Item I.A.1.3.1, "Limit Overtime," of NUREG-0737, "Clarification of TMI Action Plan Requirements," dated November 1980. Specific working hour limits are not otherwise required to be included in the TSs under 10 CFR 50.36(c)(5).

The staff concludes that the specific controls for working hours of reactor plant staff can be described in a licensee's procedure that requires a deliberate decision making process to minimize the potential for impaired personnel performance, and that a licensee's established procedure control processes will provide sufficient control for changes to that procedure. Accordingly, the staff finds the proposed deletion of the Unit 2 license condition specifying 8-hour shifts, and the proposed amendments to the Unit 1 and 2 TSs that require administrative controls to limit working hours to be acceptable.

The second paragraph of the proposed revision to TS Section 6.2.2.d for Units 1 and 2 contained a typographical error. The word "designed" should be "designee". The TSs issued with these amendments contain the correct word, "designee," in TS 6.2.2.d for both units. This was discussed with the licensee and it agreed to the change.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Jersey State official was notified of the proposed issuance of the amendments. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendments relate to changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Desaulniers

Date: December 17, 1996