

August 17, 2000

Mr. Harold W. Keiser
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, ISSUANCE OF
AMENDMENT RE: CONTROL ROD POSITION INDICATION SYSTEM (TAC
NOS. MA8838 AND MA8839)

Dear Mr. Keiser:

The Commission has issued the enclosed Amendment Nos. 232 and 213 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) in
response to your application dated April 13, 2000.

The amendments delete TS Section 3/4.1.3.2.2 which is related to shutdown and control rod
group demand position indication in Modes 3, 4, and 5.

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

Sincerely,

/RA/

Robert J. Fretz, Project Manager, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-272 and 50-311

Enclosures: 1. Amendment No. 232 to
License No. DPR-70
2. Amendment No. 213 to
License No. DPR-75
3. Safety Evaluation

cc w/encls: See next page

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DISTRIBUTION

PUBLIC	EAdensam	WBeckner	GMeyer, RGN-I
ACRS	JClifford	FAkstulewicz	GHill(4)
OGC	RFretz	LKopp	
PDI-2 Reading	TClark		

ACCESSION NUMBER: ML003735428 TEMPLATE = NRR-058

* SE Input provided on 6/12/00,
no major changes made

OFFICE	PDI-2/PM	PDI-2/LA	SRXB/SC*	OGC	PDI-2/SC
NAME	RFretz	TClark	FAkstulewicz	RHoefling	JClifford
DATE	7/27/00	7/27/00	06/12/00	8/7/00	8/16/00

OFFICIAL RECORD COPY

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. 232
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 April 13, 2000, 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. 232, 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 and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

James W. Clifford, Chief, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: August 17, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 232

FACILITY OPERATING LICENSE NO. DPR-70

DOCKET NO. 50-272

Replace the following page of the Appendix A, Technical Specifications, with the attached revised page as indicated. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

Remove Pages

3/4 1-20

Insert Pages

3/4 1-20

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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. 213
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 April 13, 2000, 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-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. 213, 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 and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

James W. Clifford, Chief, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: August 17, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 213

FACILITY OPERATING LICENSE NO. DPR-75

DOCKET NO. 50-311

Replace the following page of the Appendix A, Technical Specifications, with the attached revised page as indicated. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

Remove Pages

3/4 1-17

Insert Pages

3/4 1-17

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NOS. 232 AND 213 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 April 13, 2000, the Public Service Electric & Gas Company (the licensee) submitted a request for changes to the Salem Nuclear Generating Station (SGS), Unit Nos. 1 and 2, Technical Specifications (TSs). The requested changes would remove TS 3/4.1.3.2.2, "Reactivity Control Systems, Position Indication System Shutdown," associated with the control rod group demand position indication in shutdown Modes 3, 4, and 5.

2.0 BACKGROUND

TS 3/4.1.3.2.2, "Reactivity Control Systems, Position Indication System Shutdown," currently requires the group demand position indicator to be operable for each shutdown and control rod not fully inserted in Modes 3, 4, and 5. In addition, the TS allows only one shutdown or control bank to be withdrawn at a time from the fully inserted position during full-length rod testing and the effective multiplication factor, k_{eff} , is required to be maintained less than or equal to 0.95. The proposed change would delete TS 3/4.1.3.2.2.

3.0 EVALUATION

During power operation in Modes 1 and 2, operability of the control rod position indicators is required because the operability and alignment of the control rods have the potential to affect the safety of the plant. However, in the shutdown modes, while the operability of the shutdown and control banks has the potential to affect the required shutdown margin (SDM), this effect can be compensated for by an increase in the reactor coolant system (RCS) boron concentration.

Compliance with the TS 3/4.1.1 shutdown margin requirements in Modes 3, 4, and 5 ensures that the reactor will be maintained sufficiently subcritical to preclude inadvertent criticality. The method for calculating the required RCS boron concentration is controlled by plant procedures to ensure adequate shutdown margin (SDM) is maintained in shutdown Modes 3, 4, and 5 when the trip breakers are closed. These procedures will continue to ensure inadvertent criticality is precluded during full length control rod testing. Although more than one shutdown or control bank may be withdrawn from the fully inserted position at a time, a shutdown margin of at least 5% Δk (k_{eff} no greater than 0.95) will continue to be maintained by procedures during full-length control rod testing to prevent inadvertent criticality in the shutdown condition.

In addition, since adequate shutdown capability would be maintained by boration, as required by TS 3/4.1.1, operability of the shutdown and control rod group demand position indication is not required in Modes 3, 4, and 5 by 10 CFR 50.36, which sets out the regulatory requirements for the content of TSs.

The proposed changes are also consistent with the improved standard TSs for Westinghouse plants, NUREG-1431, Rev. 1, which deleted the requirement for group demand position indication in Modes 3, 4, and 5. Based on the above evaluation, the staff finds the proposed deletion of TS 3/4.1.3.2.2 for SGS, Unit Nos. 1 and 2, to be acceptable.

3.1 NRC Staff's Technical Conclusion

The NRC staff has reviewed the proposed removal of TS 3/4.1.3.2.2 for SGS, Unit Nos. 1 and 2, and finds it to be acceptable. SDM will continue to be maintained as required by the TSs to ensure the reactor will be maintained sufficiently subcritical to preclude inadvertent criticality in the shutdown condition.

4.0 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.

5.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (65 FR 39960). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). 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.

6.0 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: L. Kopp

Date: August 17, 2000

Public Service Electric and Gas
Company

Salem Nuclear Generating Station,
Unit Nos. 1 and 2

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