February 22, 1985

Docket No. 50-311	DISTRIBUTION	
	Docket File	NRC PDR
	L PDR	Gray File
	ORB#1 Rdg	CParrish
Mr. Richard A. Uderitz, Vice President -	OELD	XXXXXXXXXX HThompson
Nuclear	ACRS 10	DFischer MChatterton
Public Service Electric and Gas Company	SECY	LHarmon
Post Office Box 236	EJordan	PMcKee
Hancocks Bridge, New Jersey 08038	TBarnhart 4	WJones
•	DBrinkman	RDiggs
Dear Mr. Uderitz:	CMiles	JPartlow

The Commission has issued the enclosed Amendment No.³⁰ to Facility Operating License No. DPR-75 for the Salem Nuclear Generating Station, Unit No. 2. This amendment consists of changes to the Technical Specifications in response to your request dated October 15, 1984.

The amendment revises the final acceptance criteria envelope for "K(z) Normalized $F_0(z)$ as a Function of Core Height," Figure 3.2-2 in the Technical Specifications.

A copy of the Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular monthly Federal Register notice.

Sincerely,

/s/DFischer

Donald Fischer, Project Manager Operating Reactors Branch #1 Division of Licensing

Enclosures: 1. Amendment No. 30 to DPR-75

2. Safety Evaluation

cc: w/enclosures
See next page

ORB#1:DL ORB#1:DL CParrish (::DS αa 2/(\$85 2/6

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GLa/inas 2/10/85 Mr. R. A. Uderitz Public Service Electric & Gas Company

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

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

Mr. John M. Zupko, Jr. General Manager - Salem Operations Public Service Electric & Gas Company Post Office Box E Hancock Bridge, New Jersey 08038

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

James Linville, Resident Inspector Salem Nuclear Generating Station U.S. Nuclear Regulatory Commission Drawer I Hancock Bridge, New Jersey 08038

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Richard B. McGlynn, Commission Department of Public Utilities State of New Jersey 101 Commerce Street Newark, New Jersey 07102 Salem Nuclear Generating Station Units 1 and 2

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 & Gas Co. 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, PA 19406

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

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

Carl Valore, Jr., Esquire Valore, McAllister, Aron and Westmoreland, P.A. 535 Tilton Road Northfield, NJ 08225

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

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

Salem Nuclear Generating Station Units 1 and 2 $\,$

- 2 -

cc: Mr. Edwin A. Liden, Manager Nuclear Licensing & Regulation Public Service Electric & Gas Company Post Office Box 236 Hancock Bridge, New Jersey 08038

> Mr. Charles P. Johnson Assistant to Vice President, Nuclear Public Service Electric & Gas Company Post Office Box 570 80 Park Plaza - 15A Newark, New Jersey 07101

Mr. David Wersan Assistant Consumer Advocate Office of Consumer Advocate 1425 Strawberry Square Harrisburg, PA 17120

Frank Casolito, Acting Chief Bureau of Radiation Protection Department of Environmental Protection 380 Scotch Road Trenton, New Jersey 08628



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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. 50-311

SALEM NUCLEAR GENERATING STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 30 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 15, 1984, 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.
- 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.30, 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

Donald C. Fischer /

Steven A. Varga, Chief Operating Reactors Branch #1 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: February 22, 1985

- 2 -

ATTACHMENT TO LICENSE AMENDMENT NO. 30

FACILITY OPERATING LICENSE NO. DPR-75

DOCKET NO. 50-311

Revise Appendix A as follows:

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Remove Pages	Insert Pages
3/4 2-7	3/4 2-7
3/4 2-8	3/4 2-8

POWER DISTRIBUTION LIMITS

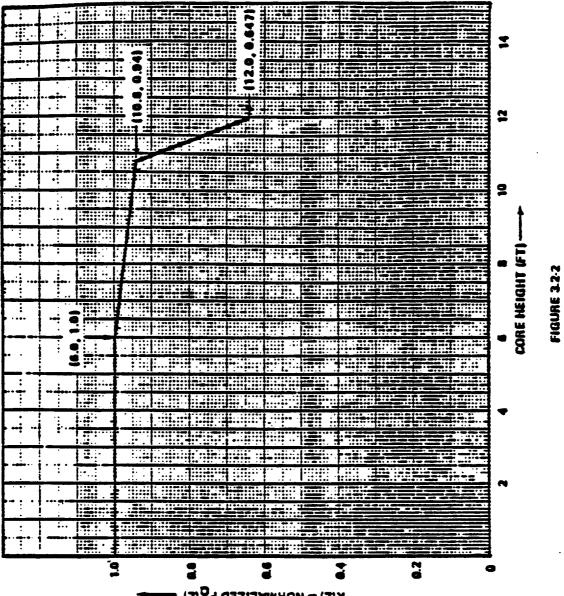
SURVEILLANCE REQUIREMENTS (Continued)

- b) At least once per 31 EFPD, whichever occurs first.
- 2. When the F_{XY}^{C} is less than or equal to the F_{XY}^{RTP} limit for the appropriate measured core plane, additional power distribution maps shall be taken and F_{XY}^{C} compared to F_{XY}^{RTP} and F_{XY}^{L} at least once per 31 EFPD.
- e. The F_{XY} limit for RATED THERMAL POWER (F_{XY}^{RTP}) shall be provided for all core planes containing bank "D" control rods and all unrodded core planes in a Radial Peaking Factor Limit Report per specification 6.9.1.10.
- f. The F_{XY} limits of e., above, are not applicable in the following core plane regions as measured in percent of core height from the bottom of the fuel:
 - 1. Lower core region from 0% to 15%, inclusive.
 - 2. Upper core region from 85% to 100%, inclusive.
 - 3. Grid plane regions at $17.8\% \pm 2\%$, $32.1 \pm 2\%$, $46.4\% \pm 2\%$, $60.6\% \pm 2\%$ and $74.9\% \pm 2\%$, inclusive.
 - 4. Core plane regions within ± 23 of core height (± 2.88 inches) about the bank demand position of the bank "D" control rods.
- g. Evaluating the effects of F_{XY} on $F_Q(Z)$ to determine if $F_Q(Z)$ is within its limit whenever F_{XY} exceeds F_{XY} .

4.2.2.3 When $F_Q(Z)$ is measured pursuant to specification 4.10.2.2, an overall measured $F_Q(Z)$ shall be obtained from a power distribution map and increased by 3% to account for manufacturing tolerances and further increased by 5% to account for measurement uncertainty.

SALEM - UNIT 2

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K(Z) - NOUWALIZED FO(Z)

SALEM - UNIT 2

Amendment No. 30

3/4 2-8

K(Z) – NORMALIZED F_Q(Z) A6 A FUNCTION OF CORE HEIGHT



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION RELATED TO AMENDMENT NO. 30 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 NO. 2

DOCKET NO. 50-311

Introduction

By letter dated October 15, 1984 Public Service Electric and Gas Company requested a revision to Technical Specifications Section 3.2.2 for the Salem Generating Station Unit No. 2. The revision consists of a change to Figure 3.2.2, "K(z) Normalized $F_0(z)$ as a Function of Core Height".

The revision to the current K(z) curve is necessary to eliminate the potential violation of the third line segment of the K(z) curve during Cycle 3 operation of Unit 2. Cycle 3 will be the first 18 months cycle for Unit 2. From preliminary analysis, Unit No. 2 Cycle 3 $F_{n}(z)$ values will be similar to those of Unit No. 1 Cycle 6 which is also an 18 month cycle. The proposed Technical Specification change is already in effect for Unit No. 1.

Evaluation and Summary

The change to the K(z) curve is allowable because a new small break LOCA analysis was done for Units 1 and 2 in 1979. NRC reviewed and approved this K(z) curve change for Unit 1 as part of the Cycle 2 Reload. The change was never made to the Unit 2 Technical Specifications since it was not needed. We have reviewed the results of the small break analysis and agree with the previous approval. We have also verified the Westinghouse results for the third line segment of the K(z) curve which is the requested Technical Specification change and agree that it is correct.

Based on our review we agree with the licensee that the change does not constitute a significant hazards consideration and approve this requested change to Technical Specification Figure 3.2.2. 8503060830 850222 PDR ADDCK 05000311

PDR

PDR

Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sec 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 this amendment.

Conclusion

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: February 22, 1985

Principal Contributor:

M. Chatterton

- 2 -