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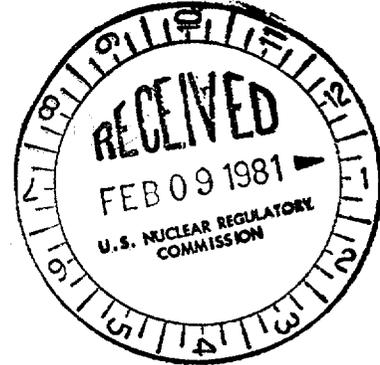
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CMiles
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Docket No. 50-272

Mr F. W. Schneider, Vice President
Production
Public Service Electric and Gas Company
80 Park Plaza, 15A
Newark, New Jersey 07101

JAN 27 1981



Dear Mr. Schneider:

The Commission has issued the enclosed Amendment No. 32 to Facility Operating License No. DPR-70 for the Salem Nuclear Generating Station, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated December 19, 1980.

The amendment modifies the Radiological Technical Specification for surveillance and testing of low head safety injection systems. Oral permission to make this modification on an expedited basis was given on December 19, 1980.

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

Sincerely,

Original signed by:
S. A. Varga

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

Enclosures:

- 1. Amendment No. to DPR-70
- 2. Safety Evaluation
- 3. Notice of Issuance

cc: w/enclosures
See next page

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OFFICE	ORB#1/DS	ORB#1/DS	ORB#1/DS	AD-OR/Ds	OELD		
SURNAME	CParrish	WRoss	SVarga	TNovak			
DATE	1/1/81	1/21/81	1/1/81	1/1/81	1/1/81		

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BScharf-10
RDiggs
CMiles
JWetmore

Docket No. 50-272

JAN 27 1981

Mr. F. P. Librizzi, General Manager
Electric Production
Production Department
Public Service Electric and Gas Company
80 Park Plaza, 15A
Newark, New Jersey 07101

Dear Mr. Librizzi:

The Commission has issued the enclosed Amendment No. to Facility Operating License No. DPR-70 for the Salem Nuclear Generating Station, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated December 19, 1980.

The amendment modifies the Radiological Technical Specification for surveillance and testing of low head safety injection systems. Oral permission to make this modification on an expedited basis was given on December 19, 1980.

In your letter of December 19, 1980 you also requested relief from an interpretation, by the NRC Office of Inspection and Enforcement, that the training of the Salem Fire Brigade is not in accordance with the Station Fire Fighting Manual Commitments. This manual is part of the Fire Protection Program that has been approved by the staff and referenced in Section C.(4) of the Facility Operating License for Salem Unit No. 1. The NRC positions for training are listed in Section 3.2.5 of the document titled "Fire Protection Program Review For Salem Nuclear Generating Station Unit No. 1 In Response To Branch Technical Position 9.5-1".

This matter has been discussed further with members of your staff and the NRC Senior Resident Inspector at the Salem Station. As the result of our review, we approve your proposal to supplement the five man Fire Brigade with an additional member until all of the members of the Brigade are fully trained or until January 31, 1981, whichever date is earliest.

Do this citation?

Mr. F. P. Librizzi

-2-

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

Sincerely,

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

Enclosures:

- 1. Amendment No. to DPR-70
- 2. Safety Evaluation
- 3. Notice of Issuance

cc: w/enclosures
See next page

*concern subject
to changes*

OFFICE	ORB#1:DL	ORB#1:DL	C-ORB#1:DL	AD-OR-DL	OELD		
SURNAME	CParrish	WRoss	SVarga	TNovak	J Moore		
DATE	1/7/81	1/7/81:cp	1/7/81	1/8/81	1/19/81		

Docket



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

January 27, 1981

Docket No. 50-272

Mr F. W. Schneider, Vice President
Production
Public Service Electric and Gas Company
80 Park Plaza, 15A
Newark, New Jersey 07101

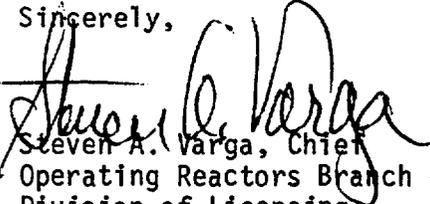
Dear Mr. Schneider:

The Commission has issued the enclosed Amendment No. 32 to Facility Operating License No. DPR-70 for the Salem Nuclear Generating Station, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated December 19, 1980.

The amendment modifies the Radiological Technical Specification for surveillance and testing of low head safety injection systems. Oral permission to make this modification on an expedited basis was given on December 19, 1980.

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

Sincerely,


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

Enclosures:

1. Amendment No. 32 to DPR-70
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures
See next page

8102180 750

Mr. F. W. Schneider
Public Service Electric and Gas Company

cc: Mark J. Wetterhahn, Esquire
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Leif J. Norrholm, Resident Inspector
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Richard B. McGlynn, Commissioner
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State of New Jersey
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Newark, New Jersey 07102

Deputy Attorney General
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State of New Jersey
36 West State Street
Trenton, New Jersey 08625

Director, Criteria and Standards
Division
Office of Radiation Programs (ANW-460)
U. S. Environmental Protection Agency
Washington, D. C. 20460

U. S. Environmental Protection Agency
Region II Office
ATTN: EIS COORDINATOR
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New York, New York 10007

Mr. E. N. Schwalje, Manager
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Mr. R. L. Mittl, General Manager
Licensing and Environment
Public Service Electric and Gas Company
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Peter A. Moeller
Nuclear Licensing Engineer
Public Service Electric and Gas Company
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Newark, New Jersey 07101

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80 Park Plaza - 15A
Newark, New Jersey 07101

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. By a visual inspection which verifies that no loose debris (rags, trash, clothing, etc.) is present in the containment which could be transported to the containment sump and cause restriction of the pump suction during LOCA conditions. This visual inspection shall be performed:
 - 1. For all accessible areas of the containment prior to establishing CONTAINMENT INTEGRITY, and
 - 2. Of the areas affected within containment at the completion of each containment entry when CONTAINMENT INTEGRITY is established.
- d. At least once per 18 months by:
 - 1. Verifying automatic isolation and interlock action of the RHR system from the Reactor Coolant System when the Reactor Coolant System pressure is above 580 psig.
 - 2. A visual inspection of the containment sump and verifying that the subsystem suction inlets are not restricted by debris and that the sump components (trash racks, screens, etc.) show no evidence of structural distress or corrosion.
- e. At least once per 18 months, during shutdown, by:
 - 1. Verifying that each automatic valve in the flow path actuates to its correct position on a safety injection test signal.
 - 2. Verifying that each of the following pumps start automatically upon receipt of a safety injection test signal:
 - a) Centrifugal charging pump
 - b) Safety injection pump
 - c) Residual heat removal pump

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

f. By verifying that each of the following pumps develops the indicated discharge pressure on recirculation flow when tested pursuant to Specification 4.0.5:

1. Centrifugal charging pump \geq 2400 psig
2. Safety Injection pump \geq 1425 psig
3. Residual heat removal pump \geq 195 psig

g. By verifying the correct position of each of the following ECCS throttle valves:

1. Within 4 hours following completion of each valve stroking operation or maintenance on the valve when the ECCS subsystems are required to be OPERABLE.
2. At least once per 18 months.

HPSI SYSTEM
VALVE NUMBER

11 SJ 16
12 SJ 16
13 SJ 16
14 SJ 16

LPSI SYSTEM
VALVE NUMBER

11 SJ 138
12 SJ 138
13 SJ 138
14 SJ 138
11 SJ 143
12 SJ 143
13 SJ 143
14 SJ 143

h. By performing a flow balance test, during shutdown, following completion of modifications to the ECCS subsystems that alter the subsystem flow characteristics and verifying that:

1. For low head safety injection lines, with a single pump running:
 - a) The sum of the injection line flow rates, excluding the line with the highest flow rate, is \geq 453 gpm; and
 - b) The total pump flow rate is \leq 650 gpm.
2. For high heat safety injection lines, with a single pump running:
 - a) The sum of the injection line flow rates; excluding the line with the highest flow rate, is \geq 346 gpm, and
 - b) The total pump flow rate is \leq 550 gpm.



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. 32
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 December 19, 1980 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.

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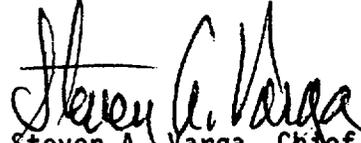
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-70 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 32, 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 #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: January 27, 1981



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 32 TO FACILITY OPERATING LICENSE NO. DPR-70

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

SALEM NUCLEAR GENERATING STATION, UNIT NO. 1

DOCKET NO. 50-272

Introduction

By letter dated November 28, 1980 we issued Amendment No. 27 to Facility Operating License No. DPR-70 for Salem Nuclear Generating Station, Unit No. 1. This amendment, in part, revised the Radiological Technical Specification to add new surveillance and testing requirements for the high and low head safety injection systems. Subsequently, by letter of December 19, 1980 Public Service Electric and Gas Company (the licensee) requested that two flow rate specifications be reviewed further in light of new information and relief be given, until the next refueling outage, for demonstration of the baseline conditions required to meet the stated flow conditions.

Evaluation

1. Low Head Safety Injection System

The new specification for demonstrating adequate flow in this system required that the sum of the injection line flow rates, excluding the line with the highest flow, should be >463 gpm. This flow rate was the number used in the ECCS analysis and was the rate determined to be appropriate during the licensing review for Salem Unit 2. A review of the original startup data by the licensee shows that an actual value after flow balancing was 453 gpm. This decrease of 10 gpm has been shown by Westinghouse to result in a potential peak clad temperature (during a small break LOCA) of 1475°F rather than the 1465°F temperature used in ECCS analysis. We agree with Westinghouse and the licensee that this 10°F increase is not significant and 1475°F is within an acceptable range. We, therefore, approve the change in Technical Specification 4.5.2.h.1.a to read > 453 gpm. The licensee will be required to verify this flow rate through balance tests during the next refueling outage.

2. High Head Safety Injection System

The new Technical Specification 4.5.2.h.2.a requires that the sum of injection flow rates, excluding the line with the highest flow rate, is >346 gpm. As the result

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ATTACHMENT TO LICENSE AMENDMENT NO. 32

FACILITY OPERATING LICENSE NO. DPR-70

DOCKET NO. 50-272

Revise Appendix A as follows:

Remove Pages

3/4 5-5a

Insert Pages

3/4 5-5a

of its review of original plant start-up data the licensee found that the measured flow from each charging pump was less than 346 gpm. Recent Westinghouse calculations of the performance of two of these pumps indicate that both should exceed the required output. The licensee provided performance curves to justify this position. We accept these curves as being sufficiently accurate to allow the licensee to delay verification of the actual flow balance characteristics of this system until the next refueling outage.

Environmental Consideration

We have determined that the amendment does 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 amendment involves 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 this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: January 27, 1981

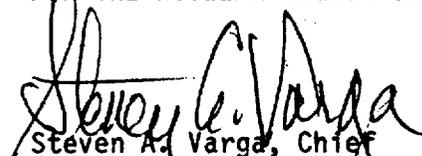
- 2 -

The Commission has determined that the issuance of this amendment 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 this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 19, 1980, (2) Amendment No. to License No. DPR-70, 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 27th day of January

FOR THE NUCLEAR REGULATORY COMMISSION


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

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-272PUBLIC SERVICE ELECTRIC AND GAS COMPANY,PHILADELPHIA ELECTRIC COMPANY,DELMARVA POWER AND LIGHT COMPANY, ANDATLANTIC CITY ELECTRIC COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 32 to Facility Operating License No. DPR-70, 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 No. 1 (the facility) located in Salem County, New Jersey. The amendment is effective as of the date of issuance.

The amendment modifies the Radiological Technical Specification for surveillance and testing of low head safety injection systems.

The application for the amendment 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 amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.