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DEC 31 1981

Docket No. 50-311



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. 4 to Facility Operating License No. DPR-75 for the Salem Nuclear Generating Station, Unit No. 2. This amendment consists of changes to the License in response to your request dated December 7, 1981.

The amendment revises the required completion dates for certain TMI-related items in the areas of Post-Accident Sampling, Additional Accident Monitoring Instrumentation, and Inadequate Core Cooling Instruments.

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

Sincerely,
 Original Signed By:

Gary C. Meyer, Project Manager
 Operating Reactors Branch #1
 Division of Licensing

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- Enclosures:
 1. Amendment No. 4 to DPR-75
 2. Safety Evaluation
 3. Notice of Issuance

cc w/enclosures:
 See next page

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Noted objection to P.R. notice and amendment

	<i>DL</i> DGEisenhut 12/31/81	<i>DL</i> AD/SA GLainas 12/18/81
OFFICE	ORB#1:DL	ORB#1:DL
SURNAME	CParrish	GMeyer:ds
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	<i>DL</i> OELD S. I. Reby 12/23/81	<i>DL</i> ORAB DVerrelli 12/18/81
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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. 4
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 December 7, 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 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, paragraphs 2.C(25)(d), 2.C(25)(h)(iv), 2.C(25)(h)(v), and 2.C(25)(i) are hereby amended to read as follows:

2.C(25)(d) Post-Accident Sampling (Section 22.3, II.B.3)

PSE&G shall complete actions needed to provide the capability to promptly obtain and perform radioisotopic and chemical analysis of reactor coolant and containment atmosphere samples under degraded core conditions without excessive exposure at the first outage of sufficient duration but no later than prior to startup following the first refueling outage.

2.C(25)(h)(iv)

Containment gamma radiation up to 10^7 rad/hr. at the first outage of sufficient duration but no later than prior to startup following the first refueling outage; and

2.C(25)(h)(v)

Noble gas effluent from each potential release point from normal concentrations to 10^5 uCi/cc (Xe-133) at the first outage of sufficient duration but no later than prior to startup following the first refueling outage.

PSE&G shall provide the capability to continuously sample gaseous effluents and analyze these samples no later than June 1, 1982.

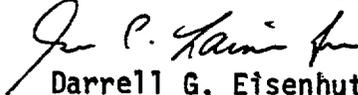
Until the above installation is complete, PSE&G shall use interim monitoring procedures and equipment.

2.C(25)(i) Inadequate Core Cooling Instruments (Section 22.3, II.F.2)

PSE&G shall install and demonstrate the operability of additional instruments or controls needed to supplement installed equipment in order to provide unambiguous, easy-to-interpret indication of inadequate core cooling at the first outage of sufficient duration but no later than prior to startup following the first refueling outage.

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

FOR THE NUCLEAR REGULATORY COMMISSION


Darrell G. Eisenhut, Director
Division of Licensing

Date of Issuance: DEC 31 1981



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 4 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 GENERATING STATION, UNIT NO. 2

DOCKET NO. 50-311

Introduction

As a consequence of the accident at TMI-2, implementation of a number of new requirements has been recommended for operating reactors. These new requirements are described in NUREG-0660, "NRC Action Plan Developed as a Result of the TMI-2 Accident," May 1980, and NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980. The requirements discussed in NUREG-0660 fall into four categories: those required for fuel loading and low power testing; those required for full power operation; those requiring internal NRC action; and those required to be implemented by a certain date.

In letters dated August 3, August 19, and August 22, 1980, PSE&G submitted a mid-year status of design and installation of Category B (dated requirement items identified in NUREG-0694) modifications and the proposed schedule for implementation of modifications at Salem 2. PSE&G subsequently modified the proposed schedule by letter dated December 9, 1980 to reflect the implementation schedules indicated in NUREG-0737. The staff's evaluation of PSE&G's planning and commitments for these items is documented in NUREG-0517 Supplement No. 5, "Safety Evaluation Report Related to the Operation of Salem Nuclear Generating Station, Unit No. 2." The staff's requirements and PSE&G's commitments for these dated items were further formalized as conditions of the operating license for Salem Unit 2.

By letter dated December 7, 1981, PSE&G proposed changes to the facility operating license for Salem Unit 2 to revise the completion schedules for the following TMI-related dated requirements: (1) II.B.3 Post Accident Sampling; (2) II.F.1 Additional Accident Monitoring Instrumentation; and (3) II.F.2 Inadequate Core Cooling Instruments.

Evaluation

II.B.3 Post-Accident Sampling

PSE&G has stated that six valves identified in later stages of the design process cannot be procured prior to June 1982 and the partitioning system which has been under development until recently will not be available until April 1982. Due to this material availability problem and the four week unit outage that would be required to complete the installation, PSE&G has proposed that the required completion date be deferred until prior to startup following the first refueling outage, currently scheduled to commence in January 1983.

As stated in Supplement No. 5 to the Salem Unit 2 SER, the staff has reviewed PSE&G's submittals describing the planned equipment and procedures for its Post-Accident Sampling system and found them to be in compliance with the staff's criteria. In addition, the staff also reviewed PSE&G's interim procedures for post-accident sampling and analysis and found them to be acceptable "until installation of an improved sampling system is complete."

It is evident from the licensee's submittals that PSE&G has made a reasonable effort to satisfy its January 1, 1982 commitment to this item; and remains committed to make every effort to complete this work should a forced outage of sufficient duration occur after the material availability problems are resolved. With this commitment and the fact that satisfactory interim procedures are in place, we have concluded that an extension of the completion date beyond January 1, 1982, does not pose any undue risk to the health and safety of the public. Further, we find that because of the uncertainties in the material availability schedules for this item and the other TMI-related dated items discussed below, since a significant safety consideration is not involved, it is impractical to require a special unit outage for the individual completion of these items if they can be more effectively and efficiently completed during a routinely scheduled refueling outage. Therefore, we conclude that in the absence of a forced outage of sufficient duration, PSE&G's request to delay completion of this action until the first refueling outage for Salem Unit 2 is acceptable.

II.F.1 Additional Accident Monitoring Instrumentation

a. Containment Radiation

PSE&G has stated that work on installation of the containment high range radiation monitor is approximately 95% complete but would require a two week outage to finish. For this reason PSE&G has requested that the completion date for this item be deferred to prior to startup following the first refueling outage. In addition, PSE&G has committed to completing this installation at the first outage of sufficient duration should one occur prior to refueling.

In Supplement No. 5 to the Salem Unit 2 SER, the staff reviewed and found acceptable the interim in-containment high radiation level assessment capability at Salem. Since Salem has this interim capability, we conclude that an extension of the completion date beyond January 1, 1982 does not pose any undue risk to the health and safety of the public. Therefore, we conclude that in the absence of a forced outage of sufficient duration, PSE&G's request to delay completion of this action until the first refueling outage for Salem Unit 2 is acceptable.

b. Noble Gas Effluent Monitors

PSE&G has stated that their efforts to locate and order qualified equipment were not successful until July, 1981 and equipment delivery was not anticipated until December, 1981. PSE&G initially estimated that an eight week outage would be required to complete installation of the noble gas monitor. Further discussions with PSE&G confirm that a significant outage will be required but, depending upon some final design details, may be as short as two to three weeks. Because of the late equipment delivery date and the extended outage time required for installation, PSE&G has requested that the completion date for this item be deferred to prior to startup following the first refueling outage for Salem Unit 2. In addition, PSE&G has committed to completing this installation at the first outage of sufficient duration should one occur prior to refueling.

In Supplement No. 5 to the Salem Unit 2 SER, the staff reviewed and found acceptable the interim system at Salem for determining noble gas releases. Since Salem has this capability and is making reasonable efforts to complete installation of the final monitoring system, we conclude that an extension of the completion date beyond January 1, 1982, does not pose any undue risk to the health and safety of the public. Therefore, we conclude that in the absence of a forced outage of sufficient duration, PSE&G's request to delay completion of this item until the first refueling outage for Salem Unit 2 is acceptable. In order to clarify the length of a "forced outage of sufficient duration" PSE&G will be requested to provide a revised estimate of the outage time required to complete this installation.

c. Analysis of Radioiodine and Particulate Effluent Samples

PSE&G has stated that their efforts to locate and order qualified equipment were not successful until July, 1981, and equipment delivery was not anticipated until December, 1981. PSE&G has requested that the completion date for this item be deferred to June 1, 1982, because of the late material delivery dates. In the interim, Salem Unit 2 has a system capable of continuously sampling gaseous effluents and analyzing these samples for radioiodines and particulates. The NRC's Office of Inspection and Enforcement has verified the availability of this interim system.

Since Salem Unit 2 has an interim system to provide the required functions and PSE&G is making a reasonable effort to complete installation of the final system, we conclude that an extension of the completion date for this item to June 1, 1982, does not pose any undue risk to the health and safety of the public and is therefore acceptable.

II.F.2 Inadequate Core Cooling Instruments

PSE&G has stated that a reactor vessel water level measurement system was ordered in August, 1980, and, though final design is essentially complete, some of the required material would not be available until December 1981. To complete this item will require removal of the reactor vessel head and draining of the primary loop (conditions normally occurring during refueling outages) and for this reason, in addition to the late material availability, PSE&G has requested that the completion date for this item be deferred to prior to startup following the first refueling outage.

In Supplement No. 5 to the Salem Unit 2 SER, the staff reviewed and found acceptable in the interim, Salem's inadequate core cooling instrumentation and procedures. Since Salem has this interim capability and PSE&G is making reasonable efforts to complete this item, we conclude that an extension of the completion date beyond January 1, 1982, does not pose any undue risk to the health and safety of the public. Therefore, we conclude that PSE&G's request to delay completion of this action until prior to startup following the first refueling for Salem Unit 2 is acceptable.

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: DEC 31 1981

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-311PUBLIC SERVICE ELECTRIC AND GAS COMPANY,
PHILADELPHIA ELECTRIC COMPANY,
DELMARVA POWER AND LIGHT COMPANY, AND
ATLANTIC CITY ELECTRIC COMPANY.NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. DPR-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 license conditions for operation of the Salem Nuclear Generating Station, Unit No. 2 (the facility) located in Salem County, New Jersey. The amendment is effective as of the date of issuance.

The amendment revises the required completion dates for certain TMI-related items in the areas of Post-Accident Sampling, Additional Accident Monitoring Instrumentation, and Inadequate Core Cooling Instruments.

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.

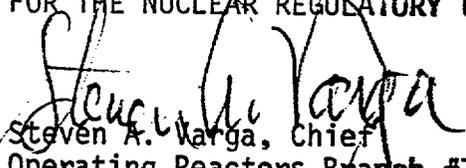
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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal 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 7, 1981, (2) Amendment No. 4 to License No. 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 31st day of December 1981.

FOR THE NUCLEAR REGULATORY COMMISSION


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