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June 24, 1980

Docket No. 50-320

Mr. R. C. Arnold
 Senior Vice President
 Metropolitan Edison Company
 P.O. Box 480
 Middletown, Pennsylvania 17057

Dear Mr. Arnold:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 11 to License No. DPR-73. This amendment consists of changes to the technical specifications in response to your request dated June 23, 1980, a draft copy of which was supplied to and reviewed by the NRC staff on June 20, 1980. The need for this change was discussed in our meeting at TMI on June 19, 1980.

This amendment approves your proposed change to the Appendix B Technical Specifications for the Three Mile Island Nuclear Station, Unit 2, dealing with bypassing the interlocks from the Reactor Building Exhaust Monitors HP-R-225 and HP-R-226 to Dampers D5129 A/D and D5129 B/C respectively during purging to the TMI-2 reactor building atmosphere pursuant to the Commission's Order for Temporary Modification of License dated June 12, 1980.

We have determined that the amendment involves an action which is insignificant from the standpoint of environmental impact and that there is reasonable assurance that the health and safety of the public will not be endangered by this action. Having made this determination, we have further concluded that pursuant to 10 CFR §1.5 (d) (4) an environmental impact statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Copies of the related Safety Evaluation and the Notice of Issuance, which has been forwarded to the Office of the Federal Register for publication, are also enclosed.

Sincerely,

S/

Bernard J. Snyder, Program Director
 Three Mile Island Program Office
 Office of Nuclear Reactor Regulation

THIS DOCUMENT CONTAINS
 POOR QUALITY PAGES

Enclosures:

1. Amendment No. 11 to DPR-73
2. Safety Evaluation
3. Notice of Issuance

cc w/encl:
 See next page

Handwritten notes:
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 review
 OK
 [Signature]

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METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER AND LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY

DOCKET NO. 50-320

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 11
License No. DPR-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Metropolitan Edison Company, Jersey Central Power and Light Company, and Pennsylvania Electric Company (the Licensee) dated June 23, 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 Order for Modification of License dated July 20, 1979, the Order for Modification of License dated October 18, 1979, the Order of February 11, 1980, the Order for Temporary Modification of License dated June 12, 1980, 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, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, by changing paragraph 2.C.(2) to facility operating License No. DPR-73, to read as follows:

2.C.(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 11, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and all Commission Orders issued subsequent to March 28, 1979.

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

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Bernard J. Snyder, Program Director
Three Mile Island Program Office
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 24, 1980

see letter of definition to form

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ATTACHMENT TO AMENDMENT NO. 11
FACILITY OPERATING LICENSE NO. DPR-73
DOCKET NO. 50-320

Only for the period of the purge of the TMI-2 reactor building atmosphere pursuant to the Commission's Order for Temporary Modification of License dated June 12, 1980, Section 2.1.2B.3 of the Appendix B Technical Specifications is superseded by the following:

Unit 1 valves AH-V1A and AH-V1B shall be interlocked to close or recirculate on receipt of a high radiation signal from the Reactor Building Exhaust Monitor RM-A9. The interlocks from the Unit 2 Reactor Building Exhaust Monitors HP-R-225 and HP-R-226 which initiate closure or recirculation of the Unit 2 Dampers D5129 A/D and D5129 B/C may be bypassed in accordance with procedures approved pursuant to Appendix A Technical Specification 6.8.2.

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER AND LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY

DOCKET NO. 50-320

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2

Introduction

By letter dated June 23, 1980, (Reference 1), the Metropolitan Edison Company (licensee) proposed a change to the Appendix B Technical Specification dealing with the reactor building purge exhaust flow radiation monitors HP-R-225 and HP-R-226 and the associated interlock function for the purge exhaust dampers D5129 A/D and D5129 B/C. The proposed change would permit bypassing the interlock function which would cause these dampers to automatically shift position from the OPEN position to the RECIRCULATE position on a high radiation signal during "rapid" purging of the TMI-2 reactor building atmosphere pursuant to the Commission Order for Temporary Modification of License dated June 12, 1980.

Evaluation

Radiation monitors HP-R-225 and HP-R-226 are provided to monitor the concentrations of radioactive materials in the exhaust flow of the two trains of the reactor building purge system. One monitor is provided for each train of the reactor building purge system; these monitors are entirely separate from and have no effect on the hydrogen purge system. These monitors are equipped with actuation circuitry to provide an interlock function for the purge exhaust dampers D5129 A/D and D5129 B/C. This interlock causes the dampers to automatically shift position from the OPEN position to the RECIRCULATE position on a high radiation signal. The set point for these monitors is based upon the instantaneous release rate limit provided in Appendix B

Technical Specification 2.1.2a which is in turn based upon the annual average λ/Q for

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the site. Since the reactor building purge operation will be performed using real-time meteorological parameters and measured concentrations of Kr-85 in the purge effluent to limit the offsite doses to within the design objectives of 10 CFR Part 50, Appendix I, bypassing of this interlock will not cause a decrease in the margins provided by these set points. However, for the period of the purge of the TMI-2 reactor building atmosphere, the Commission's Order for Temporary Modification of License dated June 12, 1980, supersedes this Technical Specification with limitations based upon doses to the maximally exposed individual. Consequently, the basis for the monitors' set point and the operability requirements for the associated interlock function no longer exists; in fact, at the present set point, the system would not permit purging to continue if the concentration exceeded the set point even though such operation is permitted by the Commission's Memorandum and Order and the Order for Temporary Modification of License. Furthermore, during this purging operation, the indication range of these monitors may be exceeded. Therefore, the detailed operating procedures for purging have been modified to require periodic sampling of the gases in the reactor building purge system. These operating procedures require NRC staff approval pursuant to proposed Appendix A Technical Specification 6.8.2 prior to implementation. Based upon the foregoing considerations, we find the licensee's proposal to bypass this interlock function during the period of the purge of the TMI-2 reactor building atmosphere acceptable.

Environmental Considerations

The environmental considerations of releasing the krypton-85 from the TMI-2 reactor building atmosphere by controlled purging were evaluated in the "Final Environmental Assessment for Decontamination of the Three Mile Island Unit 2

Reactor Building Atmosphere", NUREG-0662, Volume 1, May 1980, (Reference 2) and

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In the Commission's Memorandum and Order dated June 12, 1980. In these documents it was concluded that there is reasonable assurance that the health and safety of the public will not be endangered by controlled purging of the TMI-2 reactor building atmosphere to the environment and that this action is insignificant from the standpoint of environmental impact. Thus, pursuant to 10 CFR Section 51.5 (d) (4), an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

Based upon our review, as discussed above, we find the licensee's proposal to bypass the radiation monitors' interlock function the purge exhaust dampers during purging of the reactor building atmosphere acceptable and grant the requested Appendix B Technical Specifications change. The measures authorized in connection with this evaluation will permit controlled purging of the reactor building atmosphere to the environment in accordance with the Commission's Order for Temporary Modification of License dated June 12, 1980. Based on these considerations, we have concluded that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered or a significant reduction of a margin of safety and thus, 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.

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References:

1. Letter to Bernard J. Snyder, NRC, from R. C. Arnold, Metropolitan Edison Company, "Technical Specification Change Request No. 25", June 23, 1980.
2. "Final Environmental Assessment for Decontamination of the Three Mile Island Unit 2 Reactor Building Atmosphere", NUREG-0662, Volume I, May 1980.

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-320

METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER AND LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 11 to Facility Operating License No. DPR-73, issued to Metropolitan Edison Company, Jersey Central Power and Light Company, and Pennsylvania Electric Company which revised Technical Specifications for operation of the Three Mile Island Nuclear Station, Unit 2 (the facility) located in Dauphin County, Pennsylvania. The amendment is effective as of its date of issuance.

The amendment permits bypassing the interlocks from the Reactor Building Exhaust Monitors to Dampers during purging to the reactor building atmosphere pursuant to the Commission's Order for Temporary Modification of License dated June 12, 1980, in order to permit the purging operation to be conducted in accordance with the Commission's Memorandum and Order of June 12, 1980, and the Order for Temporary Modification of License of that date.

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.

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.

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For further details with respect to this action, see (1) the application for amendment dated June 23, 1980, (2) Amendment No. 11 to License No. DPR-73, 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. 20555 and at the Government Publications Section, State Library of Pennsylvania, Education Building, Commonwealth and Walnut Streets, Harrisburg, Pennsylvania 17126 and the York College of Pennsylvania, Country Club Road, York, Pennsylvania 17405. 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, TMI Program Office.

Dated at Bethesda, Maryland, this 24th day of June 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Bernard J. Snyder, Program Director
Three Mile Island Program Office
Office of Nuclear Reactor Regulation

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