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Docket No. 50-289

Mr. Henry D. Hukill, Vice  
President and Director - TMI-1  
GPU Nuclear Corporation  
P. O. Box 480  
Middletown, Pennsylvania 17057

Dear Mr. Hukill:



The Commission has issued the enclosed Amendment No. 75 to Facility Operating License No. DPR-50 for Three Mile Island Nuclear Station, Unit No. 1 (TMI-1). The amendment consists of changes to the Technical Specifications (TSs) in response to your request dated April 11, 1980 (TLL 167, TSCR No. 92), and subsequent correspondence dated June 4 and November 13, 1981.

The amendment revises the TSs for TMI-1 to establish the correct description of the location of the temperature detectors inside the containment building and to change the number of temperature readouts used for computing the average containment building temperature.

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

Sincerely,

ORIGINAL SIGNED BY

Richard H. Jacobs, Project Manager  
Operating Reactors Branch #4  
Division of Licensing

Enclosures:

- 1. Amendment No. 75
- 2. Safety Evaluation
- 3. Notice

cc w/enclosures:  
See next 3 pages

*Handwritten note:* No hand selection to power of notice for all areas direct SGR Review Not Requested

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PDR

OFFICE	ORB#4:DL	ORB#4:DL	C-ORB#4:DL	AD-OR:DL	OELD		
SURNAME	RIngram	RJacobs/cf	JStolz	TNoVak	CUTCHIN		
DATE	3/12/82	3/12/82	3/12/82	3/15/82	3/15/82		



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

March 25, 1982

DISTRIBUTION  
Docket File  
ORB#4 Rdg  
RIngram

Docket No. 50-289

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 12 ) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Other: Amendment No. 75  
Referenced documents have been provided PDR.

Division of Licensing, ORB#4  
Office of Nuclear Reactor Regulation

Enclosure:  
As Stated

OFFICE →	ORB#4:DL					
SURNAME →	RIngram;cf					
DATE →	3/24/82					

Metropolitan Edison Company

- 1 -

cc w/enclosure(s):

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U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555
- \* Atomic Safety and Licensing Board Panel  
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Metropolitan Edison Company

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cc w/enclosure(s) & incoming dtd.:  
4/11/80, 6/4/81, 11/13/81

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Judge Christine N. Kohl  
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Judge Reginald L. Gotchy  
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P. A. N. E.  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

METROPOLITAN EDISON COMPANY

JERSEY CENTRAL POWER AND LIGHT COMPANY

PENNSYLVANIA ELECTRIC COMPANY

GPU NUCLEAR CORPORATION

DOCKET NO. 50-289

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 75  
License No. DPR-50

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Metropolitan Edison Company, et al. (the licensees), dated April 11, 1980, as supplemented June 4 and November 13, 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 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-50 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 75, are hereby incorporated in the license. GPU Nuclear Corporation 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



John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 25, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 75

FACILITY OPERATING LICENSE NO. DPR-50

DOCKET NO. 50-289

Revise Appendix A as follows:

Remove Page

3-80

Insert Page

3-80

The changes on the revised page are shown by marginal lines.

### 3.17 REACTOR BUILDING AIR TEMPERATURE

#### Applicability

This specification applies to the average air temperature of the primary containment during power operations.

#### Objective

To assure that the temperatures assumed in the structural analysis of the Reactor Building are not exceeded.

#### Specification

- 3.17.1 Primary containment average air temperature above Elev. 320 shall not exceed 130°F and average air temperature below Elev. 320 shall not exceed 120°F.
- 3.17.2 If, while the reactor is critical, the above stated temperature limits are exceeded, the average temperature shall be reduced to the above limits within 8 hours, or be in at least HOT STANDBY within the next six (6) hours and in COLD SHUTDOWN within the following thirty (30) hours.
- 3.17.3 The primary containment average air temperature shall be calculated as follows:
- The average temperature above elevation 320 will be calculated by taking the arithmetic average of the temperatures from at least 13 locations above elevation 320. A list of locations is given below.
  - The average temperatures below elevation 320 will be calculated by taking the arithmetic average of the temperatures from at least 4 locations below elevation 320. A list of locations is given below.

<u>PT</u>	<u>Location</u>	<u>PT</u>	<u>Location</u>
1	SE Wall Elev. <u>352'</u>	13	NE Wall Elev <u>314'</u> *
2	NW Sec Shield Elev <u>352'</u>	14	S Wall Elev <u>314'</u> *
3	NE Sec Shield Elev <u>352'</u>	15	NW Wall Elev <u>314'</u> *
4	E Wall Elev <u>382'</u>	16	E Sec Shield Elev <u>352'</u>
5	NE Sec Shield Elev <u>352'</u>	17	S Rx Wall Elev <u>321'</u>
6	NW Sec Shield Elev <u>352'</u>	18	NE Wall Elev <u>287'</u> *
7	NE Sec Shield Elev <u>352'</u>	19	S Wall Elev <u>287'</u> *
8	NW Sec Shield Elev <u>352'</u>	20	NW Wall Elev <u>287'</u> *
9	NW Wall Elev <u>352'</u>	21	E Sec Shield Elev <u>352'</u>
10	E Wall Elev <u>400'</u>	22	NW Sec Shield Elev <u>287'</u> *
11	S Sec Shield Elev <u>352'</u>	23	NE Sec Shield Elev <u>364'</u>
12	NW Sec Shield Elev <u>352'</u>	24	N Sec Shield Elev <u>364'</u>

NOTE: (1) \* Detectors located below elev 320'.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 75 TO FACILITY OPERATING LICENSE NO. DPR-50

METROPOLITAN EDISON COMPANY  
JERSEY CENTRAL POWER AND LIGHT COMPANY  
PENNSYLVANIA ELECTRIC COMPANY  
GPU NUCLEAR CORPORATION

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-289

Introduction

By letter dated April 11, 1980 (TLL 167), Metropolitan Edison Company (Met Ed or the licensee) requested a change to the Three Mile Island Nuclear Station, Unit No. 1 (TMI-1) Technical Specifications (TSs). This change would revise the locations of temperature detectors used to monitor the containment building temperature and would also change the number of temperature readouts to be used in computing the average temperature of the containment building.

Discussion and Evaluation

The temperature inside the containment building is monitored to assure the temperature assumed in the structural analysis of the containment building is not exceeded during reactor operation. In order to achieve this objective, the TSs require that the average air temperature above containment building elevation of 320 feet shall not exceed 130°F, and the average air temperature below this elevation shall not exceed 120°F. The licensee has located 24 temperature detectors at various elevations throughout the inside of the containment building so that the average temperature can be computed from these measurements. The TSs list these 24 temperature detectors by giving their location at various elevations throughout the containment building.

The licensee proposed this TS change after noting that the elevations of these temperature detectors given in the TSs do not accurately represent the actual location of the temperature detectors existing in the containment building. The location of the temperature detectors, has been verified, and the proposed change correctly describes the actual location of the detectors. These temperature detectors have not been relocated. We agree with the licensee that this change in no way reduces the assurance afforded by the existing TSs in the protection of the structural integrity of the containment building. Furthermore, we have determined that this change provides the degree of specificity which will avoid unnecessary license amendments in the future. Based on the above, we find this portion of the change acceptable.

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P PDR

As part of the same request, the licensee proposed to reduce from 15 to 13 the number of temperature readouts used for computing the average temperature above the 320-foot elevation. At the same time, the number of temperature readouts used below the 320-foot elevation would be increased from three to four. Increasing the number of temperature readouts below the 320-foot elevation provides additional assurance that actual air temperature will be measured with increased accuracy, hence, we find this part of the proposed change acceptable.

In response to our concerns that insufficient technical justification had been provided to support reducing the number of temperature readouts above the 320-foot elevation, the licensee performed a test to verify the acceptability of this part of the proposed change. By letter dated November 13, 1981, the licensee submitted the results of this test. The test consisted of independently measuring the hottest containment air temperatures (between the primary and secondary shield) during hot function testing and comparing these temperatures with those measured by the containment temperature detectors. Based on the test results, the average temperature read by these temperature detectors above the 320-foot elevation will be within 2°F of true bulk containment air temperature at low power and within 1°F at full power. We conclude that the test shows that the temperature detectors are sufficiently representative of actual containment air temperature to warrant the reduction to 13 detectors above the 320-foot elevation and therefore, find the proposed change to the TSs 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.

Dated: March 25, 1982

The following NRC personnel have contributed to this Safety Evaluation:  
Rick Jacobs, P. Hearn.

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-289METROPOLITAN EDISON COMPANYJERSEY CENTRAL POWER AND LIGHT COMPANYPENNSYLVANIA ELECTRIC COMPANYGPU NUCLEAR CORPORATIONNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 75 to Facility Operating License No. DPR-50, issued to Metropolitan Edison Company, Jersey Central Power and Light Company, Pennsylvania Electric Company, and GPU Nuclear Corporation (the licensees), which revised Technical Specifications (TSs) for operation of the Three Mile Island Nuclear Station, Unit No. 1 (the facility) located in Dauphin County, Pennsylvania. The amendment is effective as of its date of issuance.

The amendment revises the Technical Specifications for the facility to establish the correct description of the location of the temperature detectors inside the containment building and to change the number of temperature readouts used for computing the average containment building temperature.

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.

-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 §1.5(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 April 11, 1980, as supplemented June 4 and November 13, 1981, (2) Amendment No. 75 to License No. DPR-50, 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. 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 25th day of March 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing