

October 1, 1986

DMB 016

Docket No. 50-289

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

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Dear Mr. Hukill:

SUBJECT: AMENDMENT NO. 121 TO FACILITY OPERATING LICENSE NO. DPR-50

The Commission has issued the enclosed Amendment No. 121 to Facility Operating License No. DPR-50 for the Three Mile Island Nuclear Station, Unit No. 1 (TMI-1). This amendment consists of changes to the Technical Specifications (TSs) in response to your letter dated June 26, 1986.

This amendment deletes smoke detector AB-4-3 from the TMI-1 TSs. This smoke detector is located in Fire Zone 4 of the Auxiliary Building at elevation 281 feet. Deletion of this smoke detector from the TSs does not change the minimum number of smoke detectors required to be operable in this fire zone.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

ORIGINAL SIGNED BY

John O. Thoma, Project Manager
PWR Project Directorate #6
Division of PWR Licensing-B

Enclosures:

- 1. Amendment No. 121 to DPR-50
- 2. Safety Evaluation

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cc w/enclosures:
See next page

PBD-6
RIngram
7/24/86

PBD-6
JThoma:jak
7/24/86

PBPE
DKubicki
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PBD-6
RWellter
9/18/86

PBD-6
JStolz
9/19/86

PBD-6
GEdison
9/19/86

OGC
W.Shields
9/25/86

NOTE:
after D. Kubicki
concerned, I held the
package until September 2, 1986
to allow the 30 day wait for
the Sholly notice.
John

Mr. Henry D. Hukill
GPU Nuclear Corporation

CC:

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Atomic Safety & Licensing Board Panel
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Atomic Safety & Licensing Appeal
Board Panel (8)
U.S. Nuclear Regulatory Commission
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Office of the Secretary
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Three Mile Island Nuclear Station,
Unit No. 1

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Three Mile Island Nuclear Station
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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. 121
License No. DPR-50

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by GPU Nuclear Corporation, et al. (the licensees) dated June 26, 1986, 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:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 121, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

J F Stolz

John F. Stolz, Director
PWR Project Directorate #6
Division of PWR Licensing-B

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 1, 1986

ATTACHMENT TO LICENSE AMENDMENT NO. 121

FACILITY OPERATING LICENSE NO. DPR-50

DOCKET NO. 50-289

Replace the following page of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

Remove
3-87a

Insert
3-87a

TABLE 3.18-1

FIRE DETECTION INSTRUMENTS

Instrument Location	Total Number of Detectors		Minimum Instruments Operable	
	Heat	Smoke	Heat	Smoke
9. Auxiliary Bldg. Elev. 271' Heat Exchanger Vault (Zone 11)	0	10	NA	5
10. Auxiliary Bldg. Elev. 281' Pipe Penetration Area (Zone 1)	0	5	NA	3
Makeup & Purification Pumps (Zone 2)	0	3	NA	2
Valve Gallery (Zone 3)	0	1	NA	1
Cable Gallery (Zone 4)	0	3	NA	2
Hallway (Zone 10)	0	7	NA	4
11. Auxiliary Bldg. Elev. 305' Decay Heat & Nucl. Service Pumps & MCC 1A, 1B (Zone 5)	0	7	NA	4
Ventilation Room	1	1	1	1
12. Intermediate Bldg. Elev. 295' EF-P-2 A&B Rooms (Zone 1)	0	6	NA	3
Cable Area (Zone 2)	0	2	NA	1
EF-P-1 Room (Zone 3)	0	2	NA	1
Valve Gallery (Zone 4)	0	2	NA	1
13. Intermediate Bldg. Elev. 305' Tank Room (Zone 5)	0	1	NA	1
14. Reactor Bldg. Elev. 281' Exhaust Ducts (Zone 1)	0	3	NA	2
Decay Heat Valve 1 (Zone 2)	0	1	NA	1
Decay Heat Valve 2 (Zone 2)	0	1	NA	1
Cable Tray at Let Down Cooler (Zone 3)	0	1	NA	1
15. Reactor Bldg. Elev. 305' Exhaust Ducts (Zone 4)	0	5	NA	3
Purge Exhaust (Zone 5)	0	1	NA	1
Cable Tray at Personnel Hatch (Zone 6)	0	2	NA	1
16. Reactor Bldg. Elev. 346' D-Ring 1d (Zone 7)	0	6	NA	4
D-Ring 1e (Zone 8)	0	6	NA	4
17. Reactor Bldg. Elev. 382' Cable Tray (Zone 9)	0	2	NA	1
18. Reactor Bldg. Elev. 382' Elevator Room (Zone 10)	0	1	NA	1



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 121 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 June 26, 1986, GPU Nuclear Corporation (GPU or the licensee) requested amendment to the Technical Specifications (TSs) appended to Facility Operating License No. DPR-50 for the Three Mile Island Nuclear Station, Unit No. 1 (TMI-1). The proposed amendment would delete the reference to one smoke detector in the Auxiliary Building, elevation 281 feet, in the cable gallery area (Fire Zone 4). The present TSs state that there are four smoke detectors in this fire zone of which a minimum of two must be operable. The proposed revision would state that there are three smoke detectors in this fire zone of which a minimum of two must be operable.

EVALUATION

The purpose of smoke detectors is to detect a fire in a particular fire zone. The Fire Hazards Analysis assumes a minimum number of smoke or heat detectors are available in each fire zone according to its specific requirements. The TMI-1 TSs require that a specified minimum number of fire detectors be available in each zone.

However, in each fire zone, the licensee has typically installed more than the minimum number of smoke and/or heat detectors. The total number of detectors available in each zone is listed in the TSs. The licensee desires to delete reference to one of these extra smoke detectors without changing the minimum number required to be operable.

There are several reasons the licensee desires to delete this one smoke detector (labeled AB-4-3), and all are due to its physical location. First, the detector is inaccessible for normal maintenance and surveillance. Thus, due to the lack of surveillance, it must be considered inoperable a majority of the time. Second, its physical location in a duct chase makes it ineffective for detecting a fire in the Cable Gallery, Elevation 281'-0", Zone 4. The primary reason for this ineffectiveness is due to the high air flow through the duct chase. There are three additional smoke detectors in this fire zone, and all three are in locations accessible for normal maintenance and not affected by high air flow through the duct chase.

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We conclude that the proposed amendment is acceptable. The minimum number of required operable smoke detectors has not been changed. The licensee has sufficient justification to remove the one smoke detector in question.

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. We have 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 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: October 1, 1986

Principal Contributor: J. Thoma