

July 1, 1999

Mr. James W. Langenbach, Vice President
and Director, TMI
GPU Nuclear, Inc.
P.O. Box 480
Middletown, PA 17057

SUBJECT: THREE MILE ISLAND, UNIT NO. 1 - ISSUANCE OF AMENDMENT RE:
ALTERNATIVE HIGH RADIATION AREA CONTROL (TAC NO. MA2137)

Dear Mr. Langenbach:

The Commission has issued the enclosed Amendment No. 213 to Facility Operating License No. DPR-50 for the Three Mile Island Nuclear Station, Unit No. 1, in response to your application dated June 11, 1998.

The amendment revises TMI-1 Technical Specification 6.12.1 to approve an alternative high radiation area control consistent with Regulatory Guide 8.38.

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

Sincerely,

Original signed by:

Timothy Colburn, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-289

Enclosures: 1. Amendment No. 213 to DPR-50
2. Safety Evaluation

cc w/encls: See next page

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DATE	6/15/99	6/15/99	6/22/99	6/30/99	

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

July 1, 1999

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GPU Nuclear, Inc.
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Sincerely,

A handwritten signature in cursive script that reads "Timothy M. Colburn".

Timothy Colburn, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-289

Enclosures: 1. Amendment No. 213 to DPR-50
2. Safety Evaluation

cc w/encls: See next page

Three Mile Island Nuclear Station, Unit No. 1

cc:

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Dauphin County Courthouse
Harrisburg, PA 17120

Chairman
Board of Supervisors
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER & LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY
GPU NUCLEAR, INC.
DOCKET NO. 50-289
THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 213
License No. DPR-50

1. The Nuclear Regulatory Commission (the Commission or NRC) has found that:
 - A. The application for amendment by GPU Nuclear, Inc., et al. (the licensee) dated, June 11, 1998, 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 Appendix A, as revised through Amendment No.213, are hereby incorporated in the license. GPU Nuclear, Inc. shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance, and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



S. Singh Bajwa, Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: July 1, 1999

ATTACHMENT TO LICENSE AMENDMENT NO. 213

FACILITY OPERATING LICENSE NO. DPR-50

DOCKET NO. 50-289

Replace the following page of the Appendix A, Technical Specifications, with the attached revised page. The revised page is identified by Amendment number and contains marginal lines indicating the areas of change.

Remove

6-22

Insert

6-22

6.11 RADIATION PROTECTION PROGRAM

Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained and adhered to for all operations involving personnel radiation exposure.

6.12 HIGH RADIATION AREA

6.12.1 In lieu of the "control device" or "alarm signal" required by paragraph 20.1601 of 10 CFR 20:

- a. Each High Radiation Area in which the intensity of radiation at 30 cm (11.8 in.) is greater than 100 mrem/hr. deep dose but less than 1000 mrem/hr. shall be barricaded and conspicuously posted as a High Radiation Area, and personnel desiring entrance shall obtain a Radiation Work Permit (RWP). Any individual or group of individuals entering a High Radiation Area shall (a) use a continuously indicating dose rate monitoring device or (b) use a radiation dose rate integrating device which alarms at a pre-set dose level (entry into such areas with this monitoring device may be made after the dose rate level in the area has been established and personnel have been made knowledgeable of them), or (c) assure that a radiological control technician provides positive control over activities within the area and periodic radiation surveillance with a dose rate monitoring instrument.
- b. In addition to the requirements of specification 6.12.1 a:
 1. Any area accessible to personnel where an individual could receive in any one hour a deep dose in excess of 1000 mrem at 30 cm (11.8 in.) but less than 500 rads at one meter (3.28 ft.) from sources of radioactivity shall be locked or guarded to prevent unauthorized entry. The keys to these locked barricades shall be maintained under the administrative control of the respective Radiological Controls Supervisor.
 2. For individual high radiation areas where an individual could receive in any one hour a deep dose in excess of 1000 mrem at 30 cm (11.8 in.) but less than 500 rads at one meter (3.28 ft.), that are located within large areas such as reactor containment, where no enclosure exists for purposes of locking, and where no enclosure can be reasonably constructed around the individual area, that individual area shall be barricaded and conspicuously posted, and a flashing light shall be activated as a warning device.

The Radiation Work Permit is not required by Radiological Controls personnel during the performance of their assigned radiation protection duties provided they are following radiological control procedures for entry into High Radiation Areas.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 213 TO FACILITY OPERATING LICENSE NO. DPR-50

METROPOLITAN EDISON COMPANY

JERSEY CENTRAL POWER & LIGHT COMPANY

PENNSYLVANIA ELECTRIC COMPANY

GPU NUCLEAR, INC.

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-289

1.0 INTRODUCTION

By letter dated June 11, 1998, GPU Nuclear, Inc., submitted a Technical Specification Change Request (TSCR) for Three Mile Island Nuclear Station Unit 1 (TMI-1). The purpose of this TSCR is to incorporate an alternate High Radiation Area Control, which meets the requirements of 10 CFR 20.1601. The proposed alternate control would provide greater operational efficiency by reducing the number of areas within the plant required to be maintained locked to prevent unauthorized or unintended access. In addition, a clarification was added to Technical Specification (TS) 6.12.1.b to plainly state that the personnel access requirements from TS 6.12.1.a are also required in specification 6.12.1.b. Also, an editorial change is made on TS 6.12.1.b to make the configuration of the term, "30 cm (11.8 in)" consistent with TS 6.12.1.a.

2.0 EVALUATION

Section 20.1601, "Control of access to high radiation areas," of 10 CFR Part 20, "Standards for Protection Against Radiation," requires licensees to institute strict control to areas where an individual could receive greater than 100 mrem in 1 hour (high radiation area). Regulatory Position 2.4 (Part C section 2.4) in Regulatory Guide (RG) 8.38 describes an acceptable alternative to maintaining all high radiation areas.

The licensee has proposed the following changes to TMI-1 TS 6.12.1.b. The proposed changes and their justification are as follows:

2.1 Alternative control scheme for high radiation areas.

Current TS require that each High Radiation area in which the intensity of radiation at 30 cm (11.8 in.) is greater than 100 mrem/hr, but less than or equal to 1000 mrem/hr shall be barricaded and conspicuously posted as a High Radiation Area, and personnel desiring

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entrance shall obtain a Radiation Work Permit (RWP). Any individual or group of individuals entering a high Radiation Area shall (a) use a continuously indicating dose rate monitoring device; (b) use a radiation dose rate integrating device which alarms at a pre-set dose level (entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them); or (c) assure that a radiological control technician provides positive control over activities within the area and periodic surveillance with a dose rate monitoring instrument.

The licensee has proposed to include a flashing-light warning option to the above TS. TS section 6.12.1.b.2 will require for individual high radiation areas where an individual could receive in any 1 hour a deep dose in excess of 1000 mrem at 30 cm (11.8 in.) but less than 500 rads at 1 meter (3.28 ft.), that are located within the large areas such as a reactor containment, where no enclosure exists for the purposes of locking, and where no enclosure can be reasonably constructed around the individual area, that the individual areas shall be barricaded and conspicuously posted, and a flashing light shall be activated as a warning device.

The request is acceptable to the staff since it is consistent with 10 CFR 20.1601 and RG 8.38, Part C, Section 2.4.

2.2 Making minor editorial changes for consistency

The licensee has proposed minor revisions to improve clarity and consistency. A clarification was added to TS 6.12.1.b to plainly state that the personnel access requirements from TS 6.12.1.a are also required in TS 6.12.1.b. Also, an editorial change is made in TS 6.12.1.b to make the configuration of the term, "30 cm (11.8 in.)" consistent with TS 6.12.1.a.

The staff has reviewed these proposed changes and considers them to be minor or editorial in nature. The changes add clarity to the TS, and the staff finds them to be acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes recordkeeping, reporting, or administrative procedures or requirements. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

5.0 CONCLUSION

The Commission has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: R. Tadesse

Date: July 1, 1999