

June 21, 1995

Mr. T. G. Broughton
Vice-President and Director, TMI
GPU Nuclear Corporation
P.O. Box 480
Middletown, Pennsylvania 17057-0480

SUBJECT: ISSUANCE OF AMENDMENT NO. 49 TO EXTEND POSSESSION-ONLY LICENSE
NO. DPR-73 FOR THREE MILE ISLAND NUCLEAR STATION UNIT 2
(TAC NO. M09767)

Dear Mr. Broughton:

The Commission has issued Amendment No. 49 to Possession-Only License
No. DPR-73. This amendment extends License No. DPR-73 until April 19, 2016,
in response to your request dated October 9, 1991.

On August 3, 1994, the Commission published a Notice of Consideration of
Issuance of Amendment to License and Opportunity for Hearing on the requested
action in the Federal Register (59 FR 39591). Neither a request for hearing
nor comments were received.

Enclosed is a copy of the related Safety Evaluation and a copy of the
Environmental Assessment and Finding of No Significant Impact supporting the
amendment.

Sincerely,

ORIGINAL SIGNED BY
Lee M. Thonus, Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Project Support
Office of Nuclear Reactor Regulation

Docket No. 50-320

Enclosures:

1. Amendment No. 49 to License No. DPR-73
2. Safety Evaluation
3. Environmental Assessment

cc w/enclosures:
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20549-0001

June 21, 1995

Mr. T. G. Broughton
Vice-President and Director, TMI
CPU Nuclear Corporation
P.O. Box 480
Middletown, Pennsylvania 17057-0480

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Non-Power Reactors and Decommissioning
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See next page

T. G. Broughton
GPU Nuclear Corporation Unit No. 2

cc:

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Three Mile Island Nuclear Station
Docket No. 50-320

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20545

GPU NUCLEAR CORPORATION

DOCKET NO. 50-320

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2

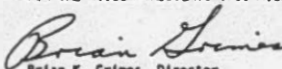
POSSESSION-ONLY LICENSE

Amendment No. 49
License No. DPR-73

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by GPU Nuclear Corporation (the licensee), dated October 9, 1991, 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 1;
 - B. The facility will be maintained 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 set forth in 10 CFR Chapter 1;
 - 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 regulations of the Commission and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by a change to paragraph 2.G. of Possession-Only License No. DPR-73 which is hereby amended to read as follows:
 6. This license is effective as of the date of issuance and shall expire at midnight, April 19, 2014.
3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Brian K. Grimes, Director
Division of Project Support
Office of Nuclear Reactor Regulation

Date of Issuance: June 21, 1995



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C.

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 49 TO POSSESSION-ONLY LICENSE

NO. DPR-73

GPU NUCLEAR CORPORATION

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2

DOCKET NO. 50-320

1.0 INTRODUCTION

By letter dated October 9, 1991, GPU Nuclear Corporation (GPUN or the licensee) requested the approval of a license amendment to extend the Three Mile Island Nuclear Station, Unit 2 (TMI-2) license. The purpose of the license extension was to allow both units at the Three Mile Island (TMI) power station to be decommissioned at the same time.

2.0 BACKGROUND

TMI-2 permanently shut down as a result of the March 28, 1979 accident. After 14 years of accident recovery, defueling, and partial facility decontamination, the Commission issued a Possession-Only License to GPUN on September 10, 1993. Following completion of a list of requirements and commitments, license Amendment No. 48 was issued on December 28, 1993. This license amendment allowed the facility to transition into a mode of monitored storage called post-defueling monitored storage (PDMS).

The current license for TMI-2 expires on November 4, 2009, and the license for Three Mile Island Nuclear Station, Unit 1 (TMI-1) expires on April 19, 2014. In order to more efficiently decommission the two units, the licensee requested an extension of the TMI-2 license until the expiration of the TMI-1 license such that they could be decommissioned together.

3.0 EVALUATION

The license extension will not result in any changes to technical specifications or license conditions. The staff evaluated the potential environmental and safety consequences of PDMS in Final Supplement 3 to the Programmatic Environmental Impact Statement Related to Decontamination and Disposal of Radioactive Wastes Resulting from the March 28, 1979 Accident at Three Mile Island Nuclear Station, Unit 2. (PEIS Supplement 3 or NUREG-0683 Supplement 3), dated August 1989. In evaluating the consequences of a spectrum of potential accidents for the duration of PDMS, the staff used time

frames which included dismantlement early after entry into PDMS, dismantlement at the expiration of the TMI-1 license in 2014, and after a hypothetical 10 year extension of the licenses of both units until 2024.

The staff issued a Safety Evaluation (SE) regarding PDMS on February 20, 1992, and updated this SE on December 28, 1993; immediately prior to the unit entering PDMS. The consequences of the most severe potential accident, a fire in the D-rings at the beginning of PDMS, were 49 mrem whole body dose and 51 mrem bone dose to the maximally exposed individual at the site boundary. This is 0.2 percent of 10 CFR 100 limits and significantly below the US Environmental Protection Agency's Protective Action Guidelines (PAGs). The consequences of the accident scenarios considered decreased with time due to decay of the radionuclide inventory at TMI-2.

The consequences of potential accidents during period of license extension have been evaluated, are very small, and will continue to diminish with time.

The license extension will allow the units to be decommissioned simultaneously. This will preclude any potential adverse effects of TMI-2 decommissioning (i.e., from destructive building dismantlement) from affecting the continued safe operation of TMI-1. Furthermore, the joint decommissioning will enable EPRI to save on cost and personnel exposure by using a common skilled decommissioning work force, and common decommissioning tools, and equipment.

The duration of an operating license is limited to 40 years as specified in 10 CFR 50.51. The original operating license for TMI-2 was issued on February 8, 1978, with an expiration date of November 9, 2009, a period of 31 years and 9 months. The proposed amendment would extend the TMI-2 license to April 19, 2014, a period of 36 years and 2 months and well within the maximum specified by 10 CFR 50.51.

4.0 STATE CONSULTATION

In accordance with Commission regulations, the State of Pennsylvania cognizant individual was notified of the proposed issuance of this amendment. The State official had no comment.

5.0 ENVIRONMENTAL CONSIDERATION

This amendment extends License No. DPR-73 until April 19, 2014. The staff has completed an environmental assessment and determined that the proposed action involves no significant effect on the quality of the human environment. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (59 FR 39591) dated August 3, 1994.

6.0 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 the proposed change to the license, (2) such activities will be conducted in compliance with the Commission regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or the health and safety of the public.

Principal Contributor: Lew H. Thomas

Date: June 21, 1995

UNITED STATES NUCLEAR REGULATORY COMMISSION
ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT
REGARDING THE EXTENSION OF
POSSESSION-ONLY LICENSE NO. DPR-73
GPU NUCLEAR CORPORATION
THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2
DOCKET NO. 50-320

The Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Possession-Only License No. DPR-73 which allows GPU Nuclear Corporation (the licensee) to possess but not operate the permanently shut down Three Mile Island Nuclear Station, Unit 2 (TMI-2). The amendment would extend the expiration date of the license from November 9, 2009, to April 19, 2014.

Description of the Proposed Action

TMI-2 has been shut down since the March 28, 1979 accident. The facility has been defueled to the extent practicable and has been partially decontaminated. It is now in a safe storage mode called Post-Defueling Monitored Storage (PDMS). The licensee intends to keep TMI-2 in PDMS until the TMI-1 license expires on April 19, 2014, at which time the units would be decommissioned simultaneously.

Environmental Impacts

The staff evaluated the potential environmental and safety consequences of PDMS in Final Supplement 3 to the Programmatic Environmental Impact Statement Related to Decontamination and Disposal of Radioactive Wastes Resulting from the March 28, 1979 Accident at Three Mile Island Nuclear Station, Unit 2,

(PEIS Supplement 3 or NUREG-068) Supplement 3), dated August 1989. The staff evaluated radiological and non-radiological impacts associated with the licensee's proposal and seven staff identified alternatives. The licensee's proposal included storage of TMI-2 until the end of the TMI-1 license in the year 2014. The staff concluded that each of the alternatives (with the exception of the no-action alternative) were within applicable regulatory limits and could each be implemented without significant environmental impact. The potential health impact on both workers and the offsite public from any of the alternatives was very small. The staff concluded that none of the alternatives was obviously superior to the licensee's proposal from the perspective of environmental impacts. Although the quantitative estimates of potential impacts varied among the alternatives, the differences were not judged sufficiently large to allow for identification of an obviously superior alternative. The staff further concluded that the licensee's proposal was environmentally acceptable and would not significantly affect the quality of the human environment. The staff reviewed the conclusions of the 1989 PEIS Supplement 3 and the current TMI-2 conditions now that the facility is in long-term storage. The staff determined that the conclusions reached with respect to environmental impact associated with long-term storage of TMI-2 in the 1989 PEIS Supplement 3 are still valid.

Finding of No Significant Impact

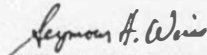
Based on the foregoing environmental assessment, the Commission has concluded that the proposed action will not have a significant effect on the

quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for this proposed action.

For further details with respect to this action see the licensee's environmental evaluation dated March 11, 1987, the licensee's request for a license amendment dated October 9, 1991, and the staff's PEIS Supplement 3 dated August 1989. These documents are available for inspection at the Commission's Public Document Room, the Gelman Building, 2120 L Street, NW, Washington, DC 20555 and at the Government Publications Section, State Library of Pennsylvania, Walnut Street and Commonwealth Avenue, Box 1601, Harrisburg, Pennsylvania 17105.

Dated at Rockville, Maryland, this 15th day of June 1995.

FOR THE NUCLEAR REGULATORY COMMISSION



Seymour H. Weiss, Director
Non-Power Reactors and Decommissioning
Project Directorate
Division of Project Support
Office of Nuclear Reactor Regulation