



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

June 27, 2002

Mr. J. Byrne
Vice President, Three Mile Island, Unit 2
GPU Nuclear Inc.
Route 441 South
P.O. Box 480
Middletown, Pennsylvania 17057-0191

SUBJECT: NRC INSPECTION REPORT 50-320/2002010, GPU NUCLEAR INC., THREE MILE ISLAND UNIT 2, MIDDLETOWN, PENNSYLVANIA

Dear Mr. Byrne:

On May 21-22, 2002, Ms. Laurie Peluso of this office conducted an inspection at the Three Mile Island, Unit 2 Nuclear Station (TMI-2), which was continued in the Region I office until June 19, 2002. The findings of the inspection were discussed with you and others by telephone on June 24, 2002. The enclosed report presents the results of that inspection and items discussed during a June 4, 2002 meeting with you and other licensee representatives at the Region I office.

Aspects of activities regarding Post-Defueling Monitored Storage were inspected. The inspection consisted of selective examinations of procedures, organization, site tours, interviews with personnel, and observations by the inspector. The scope of the inspection included the planned reactor building entry, conduct of radiological surveys, material condition inspection, and preventive maintenance on the personnel hatch in the reactor building. The programs were considered to be appropriately implemented. No safety concerns were identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room (PDR) and will be accessible from the NRC Web site at <http://www.nrc.gov/reading-rm.html>. No reply to this letter is required.

We appreciate your cooperation during this inspection.

Sincerely,

/RA/

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Material Safety

Docket No. 50-320
License No. DPR-73

Mr. J. Byrne

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Enclosure:

1. NRC Inspection Report No. 50-320/2002010

cc w/encl:

Donald Smith, PDMS Manager

James McElwain, Regulatory Assurance Manager

Adam W. Miller, Technical Analyst - Licensing Engineer

Mr. J. Byrne

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NRC Resident Inspector

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DATE	6/25/02		6/26/02						

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U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Docket No.: 50-320
License No.: DPR-73
Report No.: 50-320/2002010
Licensee: Three Mile Island Nuclear Station, Unit 2 (TMI-2)
P. O. Box 480
Middletown, Pennsylvania 17057-0191
Facility: Three Mile Island Nuclear Station, Unit 2
Location: Middletown, Pennsylvania
Dates: May 21- June 19, 2002
Inspector: Laurie Peluso, Health Physicist
Approved by: Ronald Bellamy, Chief, Decommissioning and Laboratory Branch (D&LB)
Division of Nuclear Materials Safety (DNMS)

REPORT DETAILS

The Three Mile Island Nuclear Station, Unit 2 (TMI-2) has been permanently shutdown since March 1979 and has been in Post-Defueling Monitored Storage (PDMS) since December 1993. Final decommissioning will not be scheduled until after 2014, which is the tentative permanent shutdown date for Three Mile Island, Unit 1.

The purpose of the inspection was to verify the licensee's controls for safe storage of radioactive material. The inspection included aspects of licensee activities regarding PDMS. The inspection consisted of selective examinations of procedures, organization, site tours, interviews with personnel, and observations by the inspector. Specifically, the inspector observed the licensee's planned reactor building entry, including the conduct of radiological surveys, material condition inspection, and preventive maintenance on the personnel hatch in the reactor building.

The inspector reviewed the organization and oversight of PDMS at TMI-2. In November 2001, GPU Inc., the parent company of GPU Nuclear, merged with First Energy and was renamed First Energy. The Manager, Decontamination and Decommissioning Engineering/Vice President TMI-2 reports to the Vice President, First Energy, and manages all work performed at TMI-2. Work is administered through the Work Planning Department of AmerGen (TMI-1) per a service contract. The PDMS Manager, Work Planning, reports to the Manager, Decontamination and Decommissioning Engineering/Vice President TMI-2, and is responsible for managing routine and non-routine maintenance and surveillances, and coordinating the appropriate AmerGen departments to perform scheduled work at TMI-2.

The inspector reviewed PDMS activities, including routine and non-routine preventive maintenance and control of radioactive material. The inspector noted that appropriate radiological controls and good radiological protection practices were in place. Preventive maintenance on personnel and equipment hatches was conducted as planned. The inspector also noted that security measures were being implemented, a passive fire detection system had been installed, and good housekeeping practices were evident.

A tour of the spent fuel building, turbine building, auxiliary building, and reactor building was conducted. The inspector noted no adverse material conditions in the buildings. No condensation or obvious infiltration of water into the reactor building was identified. No obvious leakage from the reactor vessel head sand shielding columns was identified. Lighting and ventilation were adequate and provided safe working conditions.

The inspector reviewed the pre-job and ALARA (as low as is reasonably achievable) briefings, associated procedures and results, and the final ALARA post-job report for the reactor building entry. The inspector noted that the pre-job and ALARA briefings detailed scope of work, radiological safety, industrial safety, and human performance. Procedures were used to perform the radiological surveys and the preventive maintenance. Results of the work were documented as required by the procedures and were accepted. No personnel contaminations occurred during this entry. The inspector also noted that the final ALARA post-job report contained a summary of the estimated doses and an evaluation of the reactor building entry. The actual total dose for the job did not exceed the estimated dose, in that the estimated total dose for the entry was 150 mrem, compared to an actual total dose of 76 mrem. The evaluation was objective, and included strengths, weakness, and recommendations for improvement.

Based on the above observations, effective controls were in place for safe storage of radioactive material. Implementation and oversight of PDMS was effective. No adverse impact on the implementation and oversight of PDMS was noted as a result of the merger. No adverse material conditions in the buildings were observed. Planning was sufficient to promote safety and ALARA. No safety concerns were identified.

The inspector presented the inspection results to members of licensee management during a teleconference with Mr. J. Byrnes and others on June 24, 2002. The licensee acknowledged the findings presented by the inspector.

On June 4, 2002, licensee representatives met with Region I staff and management in the Region I office. Staff from NRR participated by telephone. The meeting was open for public observation. The organizational structure, status of PDMS, and an update of licensing activities were discussed. A copy of the licensee's handout is attached.