



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

October 19, 2007

Mr. Gary Leidich  
President & Chief Nuclear Officer  
GPU Nuclear Inc.  
176 South Main Street  
Mail Code A-G0-19  
Akron, Ohio 44308

SUBJECT: INSPECTION 05000320/2007007, GPU NUCLEAR, THREE MILE ISLAND  
UNIT 2, MIDDLETOWN, PENNSYLVANIA

Dear Mr. Leidich:

The NRC has completed an announced inspection at your Middletown, PA facility, which covered an inspection period that began on May 31, 2007, and concluded on August 30, 2007. The preliminary findings of the inspection were discussed with Mr. David Petro and other members of your staff upon the conclusion of the site inspection on May 31, 2007. Additional information provided on June 26 and August 23, 2007 was reviewed, and a summary of the inspection findings for the entire inspection period was discussed with Mr. Petro and other members of your staff during a telephone exit meeting on August 30, 2007. The enclosed report presents the results of that inspection.

Your programs for Post-Defueling Monitored Storage, corrective actions, occupational exposure controls, radiological environmental monitoring, and radioactive effluent controls were reviewed during this period. The inspector reviewed selected procedures and records, interviewed personnel, and observed activities. Within the scope of this inspection, no violations were identified.

In accordance with Section 2.390 of the NRC's "Rules and Practices," Part 2, Title 10, Code of Federal Regulations, 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/NRC/ADAMS/index.html>. No response to this letter is required.

Sincerely,

*/RA/*

Raymond Lorson, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket No. 05000320  
License No. DPR-73

October 19, 2007

Mr. Gary Leidich  
President & Chief Nuclear Officer  
GPU Nuclear Inc.  
176 South Main Street  
Mail Code A-G0-19  
Akron, Ohio 44308

SUBJECT: INSPECTION 05000320/2007007, GPU NUCLEAR, THREE MILE ISLAND  
UNIT 2, MIDDLETOWN, PENNSYLVANIA

Dear Mr. Leidich:

The NRC has completed an announced inspection at your Middletown, PA facility, which covered an inspection period that began on May 31, 2007, and concluded on August 30, 2007. The preliminary findings of the inspection were discussed with Mr. David Petro and other members of your staff upon the conclusion of the site inspection on May 31, 2007. Additional information provided on June 26 and August 23, 2007 was reviewed, and a summary of the inspection findings for the entire inspection period was discussed with Mr. Petro and other members of your staff during a telephone exit meeting on August 30, 2007. The enclosed report presents the results of that inspection.

Your programs for Post-Defueling Monitored Storage, corrective actions, occupational exposure controls, radiological environmental monitoring, and radioactive effluent controls were reviewed during this period. The inspector reviewed selected procedures and records, interviewed personnel, and observed activities. Within the scope of this inspection, no violations were identified.

In accordance with Section 2.390 of the NRC's "Rules and Practices," Part 2, Title 10, Code of Federal Regulations, 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/NRC/ADAMS/index.html>. No response to this letter is required.

Sincerely,

*/RA/*

Raymond Lorson, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket No. 05000320  
License No. DPR-73

Distribution w/encl:  
S. Collins, RA  
M. Dapas, DRA  
B. Holian, DNMS  
D. Lew, DRP  
J. Clifford, DRP

R. Bellamy, DRP  
S. Barber, DRP  
D. Kern, DRP, Senior  
Resident Inspector  
J. Brand, DRP, RInspector  
C. LaRegina, DRP, Res.OA

R. Laufer, RI OEDO  
P. Bamford, PM, NRR  
E. Miller, NRR, Backup  
J. Lubinski, NRR  
H. Chernoff, NRR  
D. Persinko, FSME

B. Watson, FSME  
K. Banovac, FSME  
ROPreports@nrc.gov  
Region I Docket

DOCUMENT NAME: C:\FileNet\ML072920094.wpd

**SUNSI Review Complete:** LKauffman

After declaring this document "An Official Agency Record" it **will** be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	E	DRP /RI	DNMS/RI		
NAME	LKauffman		RBellamy	RLorson		
DATE	10/18/07		10/18/07	10/18/07		

OFFICIAL RECORD COPY ML072920094

Enclosure:

NRC Region I Inspection Report No. 05000320/2007007  
w/Attachment Supplemental Information

cc w/encl:

President and CEO, AmerGen Energy Company  
Vice President, GPU Nuclear Oversight  
Chief Operating Officer, AmerGen  
Site Vice President - TMI, Unit 1, AmerGen  
Plant Manager - TMI, Unit 1, AmerGen  
Regulatory Assurance Manager - TMI, Unit 1, AmerGen  
Senior Vice President - Nuclear Services, AmerGen  
Vice President - Mid-Atlantic Operations, AmerGen  
Vice President - Operations Support, AmerGen  
Vice President - Licensing and Regulatory Affairs, AmerGen  
Director Licensing - AmerGen  
Manager Licensing - TMI, AmerGen  
Vice President - General Council and Secretary, AmerGen  
Correspondence Control Desk - AmerGen  
Director Work Management, TMI-1, AmerGen  
PDMS Manager, Work Management, TMI-1, AmerGen  
TMI Nuclear Oversight Manager (TMI-2 matters)  
Senior Regulatory Specialist, Regulatory Assurance, TMI-1, AmerGen  
Responsible Engineer, TMI-2, First Energy Nuclear Operating Company (FENOC), GPUN  
Chairman, Board of County Commissioners of Dauphin County  
Chairman, Board of Supervisors of Londonderry Township  
D. Allard, Director, PA DEP  
J. Johnsrud, National Energy Committee  
E. Epstein, TMI-Alert (TMIA)  
J. Powers, Director, PA Office of Homeland Security  
R. French, PA Emergency Management Agency

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Inspection No. 05000320/2007007  
Docket No. 05000320  
License No. DPR-73  
Licensee: Three Mile Island Station, Unit 2 (TMI-2)  
Location: P.O. Box 480  
Middletown, Pennsylvania 17057-0191  
Inspection Dates: May 31, 2007  
Date Followup  
Information Received: June 26 and August 23, 2007  
Inspector: Laurie A. Kauffman, Health Physicist  
Approved By: Raymond Lorson, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

## SUMMARY OF FINDINGS

IR 05000320/2007007; May 31, June 26, and August 23; Three Mile Island Station, Unit 2, SAFESTOR Inspection.

The report covered an announced inspection related to the Post-Defueling Monitored Storage (PDMS) program, corrective actions, occupational exposure controls, radiological environmental monitoring, and radioactive effluent controls. The inspection was conducted by a regional inspector and was based upon Manual Chapter (MC) 2561, "Decommissioning Power Reactor Inspection Program." This routine inspection included a review of PDMS activities related to the safe storage of radioactive material and the implementation of the Unit 2 Technical Specifications (TS). The inspection focused on implementation of the TS requirement to perform an annual surveillance of the exclusion area barriers and accessible areas within the exclusion areas. The inspector determined that the licensee had an adequate program for the safe storage of radioactive material and the implementation of the TS requirement to perform an annual surveillance of the exclusion area barriers and accessible areas within the exclusion areas.

A. NRC Identified and Self-Revealing Findings

Cornerstone: Radiation Safety

No findings of significance were identified.

B. Licensee-Identified Violations

None

## REPORT DETAILS

### 4OA5 Other Activities

#### .1 Inspection Procedure (IP) 40801 - Corrective Action Program - 1 sample

##### a. Inspection Scope

The inspector evaluated the TMI-2 corrective action program to assess the licensee's ability to identify, resolve, and prevent recurrence of conditions and issues that could degrade the safety or quality of PDMS activities. The inspector examined selected issue reports (IRs) and action reports (ARs) and conducted interviews with personnel familiar with the selected issues.

##### b. Observations and Findings

No findings of significance were identified. The licensee maintained an adequate corrective action program to identify and resolve issues.

#### .2 IP 83750 and 84750 - Plant Support - 2 samples

##### a. Inspection Scope

The inspector reviewed PDMS activities related to the safe storage of radioactive material and the implementation of primary containment isolation requirements, TS 3/4.1, "Containment Systems." The inspection included site tours and observations of the licensee's annual reactor building entry surveillance test (ST). The reactor building ST included activities such as: conducting radiological surveys; water and air sampling; exchanging and analyzing the reactor building breather (passive air flow diaphragm); monitoring and sampling any potential radioactive gaseous effluent through the reactor building purge exhaust; and, collecting liquid samples from the reactor building sump.

The inspector also evaluated aspects of the occupational radiation protection program, radioactive effluent monitoring program, and the radiological environmental monitoring program. The inspector reviewed the related implementing procedures and associated surveillance test results, and the radioactive liquid and radioactive gaseous effluent release permits and data, from January 2006 through May 2007.

##### b. Observations and Findings

No findings of significance were identified. The inspector determined that the licensee had an adequate program for the safe storage of radioactive material and the implementation of the TS requirement to perform an annual surveillance of the exclusion area barriers and accessible areas within the exclusion areas.

40A6 Meetings, Including Exit

Exit Meeting Summary

On August 30, 2007, the NRC inspector presented the inspection results to Mr. Petro. The inspector confirmed that proprietary and safeguards information were not included in this inspection report.

Attachment: Supplemental Information

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

GPU Nuclear Three Mile Island, Unit 2 and Exleon/AmerGen Three Mile Island, Unit 1

J. Bowers, Radiation Protection Engineer, ALARA Analyst  
R. Crawford, Radiation Waste Operator  
E. A. Curry, Supervisor, TMI-2, GPUN  
E. Parido, Radiation Protection Technician, TMI-1, AmerGen  
D. Petro, Responsible Engineer, TMI-2; Senior Consultant, First Energy Nuclear  
Operating Company (FENOC)  
D. Smith, PDMS Manager, Work Management, TMI-1, AmerGen  
C. Wend, Radiation Protection Manager  
G. Welsh, Senior Mechanical Maintenance Technician

**LIST OF ITEMS OPENED, CLOSED AND DISCUSSED**

OPEN NONE

CLOSED NONE

DISCUSSED NONE

**LIST OF DOCUMENTS REVIEWED**

**Section 4OA5 Other Activities**

Procedures

2301-4.3, TMI-2 Reactor Building (Containment) PDMS Radiological Surveys  
2104-1A, Reactor Building Entry

**LIST OF ACRONYMS USED**

AR	Action Report
IP	Inspection Procedure
IR	Issue Report
PDMS	Post-Defueling Monitored Storage
TMI-2	Three Mile Island Nuclear Station, Unit 2
TS	Technical Specifications