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August 30, 1982  
NRC/TMI-82-053

MEMORANDUM FOR: Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
  
Bernard J. Snyder, Program Director  
TMI Program Office

FROM: Lake H. Barrett, Deputy Program Director  
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of August 22 - 28, 1982. Major items included in this report are:

- Liquid Effluents
- EPA and NRC Environmental Data
- Radioactive Material and Radwaste Shipments
- Submerged Demineralizer System Status
- EPICOR II
- Reactor Building Entries
- EPICOR II Prefilter Shipment
- Public Meetings

*Original signed by  
Lake H. Barrett,*

Lake H. Barrett  
Deputy Program Director  
TMI Program Office

Enclosure: As stated

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OFFICE ▶							
SURNAME ▶							
DATE ▶							

Harold R. Denton  
Bernard J. Snyder

-2-

August 30, 1982

cc w/encl:

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OFFICE	TMIP	TMIP	TMIP	TMIP	TMIP	TMIP
SURNAME	GKulman:js	Jwiebe	MShanbaky	AFasano	RBellamy	LBarrett
DATE	8/30/82	8/30/82	8/30/82	8/30/82	8/30/82	8/30/82

# NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

August 22, 1982 - August 28, 1982

## Plant Status

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) to reactor building ambient.

Available Core Cooling Modes: Mini Decay Heat Removal (MDHR) system.

RCS Pressure Control Mode: RCS is vented to the reactor building.

Major Parameters (as of 0500, August 27, 1982) (approximate values)

Average Incore Thermocouples: 126°F  
Maximum Incore Thermocouple: 143°F

RCS Loop Temperatures:

	A	B
Hot Leg	106°F	105°F
Cold Leg (1)	83°F	83°F
(2)	85°F	84°F

Pressure: The reactor coolant system is vented to the reactor building.

Reactor Building: Temperature: 83°F  
Pressure: -0.2 psig  
Airborne Radionuclide Concentrations:  
4.7 E-8 uCi/cc H<sup>3</sup>  
(sample taken 8/10/82)  
6.2 E-6 uCi/cc Kr<sup>85</sup>  
(sample taken 8/10/82)  
1.4 E-9 uCi/cc particulates  
(sample taken 8/27/82)

## 1. Effluent and Environmental (Radiological) Information

Liquid effluents from the TMI site released to the Susquehanna River after processing, were made within the regulatory limits and in accordance with NRC requirements and City of Lancaster Agreement dated February 27, 1980.

During the period August 20, 1982, through August 26, 1982, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources, which originated within Unit 2, contained no detectable radioactivity.

2. Environmental Protection Agency (EPA) Environmental Data

- The EPA Middletown Office has not received the environmental Kr-85 analytical results for the samples which were taken July 31, 1982, through August 27, 1982, from the EPA's Counting Laboratory at Las Vegas, Nevada. These results will be included in a subsequent report.
- No radiation above normally occurring background levels was detected in any of the samples collected from the EPA's air and gamma rate networks during the period from August 18, 1982, through August 26, 1982.

3. NRC Environmental Data

Results from NRC monitoring of the environment around the TMI site were as follows:

- The following are the NRC air sample analytical results for the onsite continuous air sampler:

<u>Sample</u>	<u>Period</u>	<u>I-131</u> <u>(uCi/cc)</u>	<u>Cs-137</u> <u>(uCi/cc)</u>
HP-333	August 18, 1982 - August 25, 1982	<6.3 E-14	<6.3 E-14

4. Licensee Radioactive Material and Radwaste Shipments

- On August 23, 1982, seven LSA boxes and one solidified Hittman liner was shipped from Unit 1 to the Barnwell Waste Management Facility, Barnwell, South Carolina.
- On August 24, 1982, seventy-one drums of Unit 1 and Unit 2 contaminated laundry were shipped to Interstate Laundry, New Kensington, Pennsylvania.
- On August 25, 1982, a Unit 2 EPICOR II prefilter (PF-1) was shipped to EG&G Incorporated, Idaho Falls, Idaho.
- On August 25, 1982, five snubbers from the Unit 2 reactor building were shipped to Wyle Laboratories, Huntsville, Alabama.

Major Activities

1. Submerged Demineralizer System (SDS). SDS processing of Batch 33 was stopped Tuesday, August 24, 1982, after high strontium was detected in the effluent from the system. This is a normal indication that a demineralizer vessel change out is necessary. Processing of Batch 33 resumed on Friday, August 27, 1982, after the spent vessel was replaced.
2. EPICOR II. The EPICOR II system continued to process SDS effluent during the week.

3. Reactor Building Entries. Three reactor building entries were conducted during the past week (August 23, 25, and 27, 1982). During the entries an attempt was made to uncouple the leadscrews from all the 61 control rods and the eight axial power shaping rods. The uncoupling appeared successful in all but three cases. Three control rod leadscrews were left coupled to their spider assemblies after repeated attempts to uncouple the bayonet type connections were unsuccessful. Prior to reactor vessel head removal, the leadscrews are normally uncoupled from the spider assemblies and raised to a parked position inside the control rod drive mechanisms. Following the uncoupling attempts this week, all control rod housings were left vented to the reactor building to prevent accumulation of potentially explosive gases.

An attempt to inspect the reactor building below the 305 ft. elevation with a closed circuit television camera was delayed due to camera transmission problems.

During the week of August 30, 1982, the licensee plans to initiate an experiment to measure the rate of gas generation in the reactor vessel. A manometer will be connected to the center most control rod drive mechanism to measure the rate of pressure increase (gas generation). Additionally, the gas collected in the manometer connecting hoses will be sampled. Gas samples will also be taken from the pressurizer and the hot leg high point vents.

A reactor building decontamination program is scheduled to start in September. The proposed decontamination techniques are similar to those used during the gross decontamination experiment. The proposed program will include decontamination of the reactor building dome, the polar crane, and inside the "D" rings.

4. EPICOR II Prefilter Shipment. On August 25, 1982, the second in a series of 49 EPICOR II Prefilters (PF-1) was shipped from TMI to the Idaho National Engineering Laboratory (INEL) in Scoville, Idaho. The PF-1 liner and shipping cask were inerted with nitrogen as an added safety precaution to insure no combustible gases would exist during shipment. The gas composition in the liner will be maintained at <2.5% hydrogen and <0.5% oxygen. The Department of Energy (DOE) took possession of this waste onsite and will conduct R&D testing at the INEL facility. The PF-1 liner is scheduled to arrive at INEL on August 30, 1982. GPU is currently making preparations for the shipment of EPICOR II PF-2 the week of September 7, 1982.

Future Meetings

1. On Wednesday, September 1, 1982, Lake Barrett will meet with the Concerned Mothers of Middletown to discuss the Atomic Safety and Licensing Board's decision on the examination cheating as well as Unit 2 cleanup issues.
2. On Tuesday, September 28, 1982, Lake H. Barrett will participate in a public meeting sponsored by the Hershey League of Women Voters to discuss TMI Unit 2 cleanup issues.