

July 2, 1984  
NRC/THI-84-048

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

FROM: Philip J. Grant, Acting Deputy Program Director  
THI Program Office

SUBJECT: NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT FOR  
June 24, 1984 - June 30, 1984

Two significant events occurred in the reactor building this week. In preparation for head lift in August 1984, all reactor vessel head studs have been detensioned and the licensee is preparing to remove the studs. On June 28, 1984, a planned 19 minute entry was made into the reactor building by an individual not wearing respiratory protection. Data from effluent and environmental monitoring systems indicated no plant releases in excess of regulatory limits. Waste processing continued on a routine basis. Plant parameters have shown no significant changes. (For more details see appropriate paragraphs below.)

Significant items covered in the enclosure are:

- Reactor Building Activities
- Auxiliary and Fuel Handling Building Activities
- Waste Management
- Public Meetings

Data summary sheets included in this report are:

- Liquid Effluent Data
- Environmental Data
- Radioactive Material/Radwaste Shipment Data
- Plant Status Data

ORIGINAL SIGNED BY:

Philip J. Grant  
Acting Deputy Program Director  
THI Program Office

Enclosure: As stated

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SURNAME	DCollins	AFasano	JThomas	PGrant		
DATE	7/2/84	7/2/84	7/2/84	7/2/84		

## ENCLOSURE

### REACTOR BUILDING ACTIVITIES:

The reactor building entry frequency has increased to six entry days per week to support head lift preparations. On Thursday, June 28, 1984 all 58 remaining reactor vessel head nuts were backed off to completely detension the reactor vessel head. As of June 30, 1984 a total of 57 of the 58 studs had been loosened. Preparations are being made to loosen the remaining stud. A prerequisite for head lift is to remove and store all 58 nuts and studs. Reactor vessel head lift is scheduled for August 1984.

A volunteer senior radiological controls technician made a planned entry into the TMI-2 reactor building without wearing respiratory protection on June 28, 1984. During the 19 minute entry, the technician performed routine radiological control surveillances. Preliminary analysis of the individual's breathing zone air sample indicated an exposure of about 0.2 MPC-hours. The applicable limit in 10 CFR 20.103 is 520 MPC-hours in 13 weeks. Appropriate beta radiation protection was worn to protect the lens of the eyes. The individual was appropriately monitored for external penetrating and nonpenetrating radiation exposure. The licensee's Safety Advisory Board concurred with the results of a study evaluating and recommending the removal of requirements for the use of respirators for selected tasks in the reactor building. Future entries into the reactor building without respiratory protection for selected individuals are planned and will be based on stay time, job to be performed, and impact of other tasks.

### AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Work continued on the "A" fuel pool refurbishment with water flushing of the lower tanks and cutting of some structural steel in preparation for removal. Installation of the makeup and purification demineralizer elution system continued. Decontamination activities were continued in the buildings.

### WASTE MANAGEMENT ACTIVITIES:

The submerged demineralizer system (SDS) continues to process batch 93 from the lower tank farm in the "A" fuel pool. The water has been generated as a result of the ongoing decontamination of the lower tank farm.

SDS is also processing batch 95 from the "C" reactor coolant bleed tank (RCBT). Processing of the 65,350 gallon batch (29,670 gallons was from the reactor coolant system draindown) began on June 23, 1984.

EPICOR 11 processed batch 215 from the "B" monitor tank during June 22 - 23, 1984. Total volume processed was 6,825 gallons.

### PUBLIC MEETINGS:

1. The meeting on July 2, 1984 with Friends and Family of TMI has been postponed to a later date at their request.
2. On July 12, 1984, the Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet from 7:00 PM to 10:00 PM in the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania. The meeting will be open to the public. Persons that have questions pertaining to the TMI-2 cleanup that would

like to have them considered or addressed by the Advisory Panel are asked to contact, in writing, Mayor Arthur Morris, 120 Duke Street, Lancaster, PA 17602. Persons desiring the opportunity to speak before the panel are asked to contact Mr. Thomas Smithgall at 2122 Marietta Avenue, Lancaster, PA 17603 (telephone 717-291-1041).

At this meeting the Panel will be briefed by Dr. W. Kirk, Environmental Protection Agency, on the results of the interagency radiation monitoring program review. Representatives from GPU Corporation will discuss facility decontamination alternatives after fuel removal, and funding for the cleanup for 1984 and beyond. The status of the Edison Electric Institute TMI-2 voluntary funding program will also be presented.

APPENDIX 1

LIQUID EFFLUENT DATA

GPU Nuclear

Based on sampling and monitoring, liquid effluents from the TMI site released to the Susquehanna River were determined to be within regulatory limits and in accordance with NRC requirements and the City of Lancaster Agreement.

During the period June 22 - 28, 1984, the effluents contained no detectable radioactivity at the discharge point. Individual effluent sources originating within Unit 2 contained minute amounts of radioactivity. Calculations indicate that less than  $1.2 \text{ E-6}$  (0.0000012) of a curie of Cs-137 was discharged.

Environmental Protection Agency

Lancaster Water Samples:	7 samples
Period Covered:	June 10 - 16, 1984
Results:	Gamma Scan Negative
TMI Water Samples:	7 samples
Period Covered:	June 9 - 16, 1984
Results:	Gamma Scan Negative

APPENDIX 2

ENVIRONMENTAL DATA

NRC Environmental Data

The NRC operated continuous outdoor air sampler at the TMI site did not detect any reactor related radioactivity. The air sampler analysis results are listed below.

<u>Sample</u>	<u>Period</u>	<u>Volume</u>	<u>I-131 (uCi/cc)</u>	<u>Cs-137 (uCi/cc)</u>
HP-425	June 21 - 27, 1984	239.9 m <sup>3</sup>	<1.5 E-13	<1.5 E-13