

50-320

June 4, 1984
NRC/TMI-84-038

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 FOR
May 26, 1984 - June 2, 1984

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.

Other site activities this period included: preparations for head lift in August 1984, reactor building air cooling system work and auxiliary and fuel handling building decontamination and tank removal. (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 for//
Lake H. Barrett
Deputy Program Director
TMI Program Office

Enclosure: As stated

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TMI*

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OFFICE							
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OFFICE	TMIPD <i>DC</i>	TMIPD	TMIPD	TMIPD			
SURNAME	DCollins	Imp AFasano	Grant	Barrett			
DATE	6/4/84	6/4/84	6/4/84	6/4/84			

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

Reactor vessel head lift preparations are continuing inside the reactor building. During the next two weeks, the head lift preparations will be focused on supporting components and systems outside of the reactor building. By mid-June, the reactor coolant system will be depressurized and a draindown to below the reactor vessel head flange will commence. The reactor vessel head has already been partially detensioned. Total detensioning and head stud removal is scheduled during the first two weeks of July. Head lift is scheduled during the first week in August.

Prior to head lift, the Nuclear Regulatory Commission will review and approve headlift procedures and procedures for reactor coolant system processing from the open vessel. Both the Nuclear Regulatory Commission and the licensee are currently performing safety evaluations for the head lift and associated activities.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Decontamination activities continued in the Auxiliary and Fuel Handling Buildings this week. Steady progress continues on installation of the Reactor Building Chiller System. Installation of the makeup and purification demineralizer elution system continued. One tank from the "A" fuel pool has been sealed and stored in the southeast acres storage area. A second tank was removed this week. Preparations for removing the remaining three tanks from the "A" fuel pool continued. Final disposition of these tanks is pending.

WASTE MANAGEMENT ACTIVITIES:

The Submerged Demineralizer System (SDS) began processing batch 92 on May 31, 1984. SDS batch 92 is composed of reactor coolant letdown batch 24 (54,000 gallons). The following is a summary of the processing history of both the SDS and EPICOR II systems.

SDS PROCESSING SUMMARY (July 1981 through May 1984)

<u>Water Source</u>	<u>Approximate Gallons</u>
Reactor Building Sump	651,000
Reactor Building Sump (Decon)	367,000
Reactor Coolant System	713,000
Miscellaneous Decon Water	495,000
Total	2,226,000

EPICOR II PROCESSING SUMMARY (November 1979 through May 1984)

<u>Water Source</u>	<u>Approximate Gallons</u>
Pre-SDS Auxiliary Building Sump	565,000
Reactor Building Sump	649,000
Reactor Building Sump (Decon)	334,000
Miscellaneous Sources	502,000
Total	2,050,000

PUBLIC MEETINGS:Past Meeting:

On May 30, 1984, the Advisory Panel for the Decontamination of Three Mile Island, Unit 2, met with the Nuclear Regulatory Commissioners in Washington, DC. The Panel brought up a number of topics for discussion. Arthur Morris, Chairman of the Advisory Panel, asked the Commissioners to reconsider the Commissioners' earlier decision not to link the restart of TMI-1 to a firm funding plan for the cleanup of TMI-2. The Commission reiterated its position that they have no legal basis for conditioning the restart of TMI-1 to a funding plan for TMI-2. The principal concern of the Panel was the slow pace of the cleanup due partially to the lack of sufficient funds. After considerable discussion the Commission, citing the slow pace of the cleanup effort, requested that the NRC staff prepare a draft Commission Order for Commission review which will require the licensee to accomplish certain milestones in the cleanup effort within specified time periods.

The Panel brought up the issue of funding, and both the Panel and the Commission agreed that adequate funding for the cleanup will become a critical issue after this calendar year. The Commission plans to send a letter to the U.S. nuclear industry encouraging their financial contribution to the cleanup.

The Panel and the Commission also discussed the proposal, originally suggested by Thomas Gerusky, Panel member from the Commonwealth of Pennsylvania, that the NRC explore the possibility of redefining the endpoint of the cleanup. In the interest of minimizing worker radiation exposure final decontamination of the facility after fuel removal could be deferred indefinitely provided that adequate protection of the public could be assured. The Commission will look into the policy questions of such a proposal.

Future Meetings:

1. On June 14, 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. At this meeting the Advisory Panel will receive a presentation from GPU Nuclear Corporation on the planned reactor vessel head lift. The licensee will also provide the current funding plan for the cleanup. Alternative methods of funding and completing the cleanup will also be presented. 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 Advisory Panel are asked to contact Mr. Thomas Smithgall at 2122 Marietta Avenue, Lancaster, PA 17603 (telephone 717-291-1041).
2. On June 19, 1984, Dr. Bernard Snyder and Lake Barrett will meet with the Concerned Mothers of Middletown at the NRC's office located at 100 Brown Street, Middletown to discuss various issues related to TMI.

ENCLOSURE

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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 May 25 through May 31, 1984, the effluents contained no detectable radioactivity at the discharge point. Individual effluent sources originating within Unit 2 contained minute amounts of radioactivity. Calculations indicated that the discharges were less than $5.1 \text{ E-}7$ (0.00000051) of a curie of Cs 137.

Environmental Protection Agency

Lancaster Water Samples:	8 samples
Period Covered:	April 30, May 13 - 19, 1984
Results:	Gamma Scan Negative
TMI Water Samples:	7 samples
Period Covered:	May 12 - 19, 1984
Results:	Gamma Scan Negative

APPENDIX 2

ENVIRONMENTAL DATA

NRC ENVIRONMENTAL DATA

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

<u>Sample</u>	<u>Period</u>	<u>I-131 (uCi/cc)</u>	<u>Cs-137 (uCi/cc)</u>
HP-421	May 23 - 30, 1984	<1.2 E-13	<1.2 E-13

APPENDIX 3

RADIOACTIVE MATERIALS/RADWASTE SHIPMENT DATA

- On May 30, 1984, a combined Unit 1 and 2 shipment consisting of radioactively contaminated laundry, was sent to Interstate Nuclear Services at New Kensington, Pennsylvania.
- On May 31, 1984, a Unit 2 shipment of fission foils was sent to Westinghouse-Hanford Company at Richland, Washington.
- On May 31, 1984, a Unit 2 sample consisting of an electrical solenoid was sent to EG&G at Scoville, Idaho.
- On June 1, 1984, a Unit 2 sample consisting of a core flood tank level transducer was sent to EG&G at Scoville, Idaho.

APPENDIX 4

PLANT STATUS

Core Cooling Mode: Heat transfer from the Reactor Coolant System (RCS) to Reactor Building ambient.

Available Core Cooling Mode: Mini Decay Heat Removal (MDHR) System.

RCS Pressure Control Mode: Standby Pressure Control (SPC) System

Major Parameters as of 5:00 AM, June 1, 1984 (approximate values):

Average Incore Thermocouples*: 91°F
Maximum Incore Thermocouple*: 134°F

RCS Loop Temperatures:

	A	B
Hot Leg	77°F	81°F
Cold Leg (1)	73°F	77°F
(2)	68°F	72°F

Reactor Core Decay Heat: 17 Kilowatts

RCS Pressure: 60 psig

Reactor Building: Temperature: 70°F
Pressure: -0.1 psig
Airborne Radionuclide Concentrations:

1.2 E-7 uCi/cc H³ (Tritium)
(sample taken 5/30/84)

1.2 E-9 uCi/cc particulates
(predominately Cs-137)
(sample taken 5/30/84)

*Uncertainties exist as to the exact location and accuracy of these readings.