March 23, 1984
NRC/TMI-84-023

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
March 18, 1984 - March 24, 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 showed no significant changes. The reactor coolant system is depressurized and RCS level remains at 321'6".

Site activities this period included: preparations for head lift in late summer, reactor building air cooling system work and auxiliary and fuel handling building decontamination. Five core debris samples were taken from the reactor vessel. (For more details see appropriate paragraphs below.)

Significant items covered in the enclosure are:

-- Reactor Building Activities
-- Auxiliary and Fuel Handling Building Activities
-- Performance Appraisal Section (PAS) Team Inspection
-- Waste Management Activities
-- Public Meetings

Data summary sheets included in this report are:

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

ORIGINAL SIGNED BY:
Lake H. Barrett
Deputy Program Director
TMI Program Office

IDR-5
TMI

Enclosure: As stated

OFFICE ▶
SURNAME ▶
DATE ▶

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SURNAME ▶	DCollins/lmp	AFasano	[illegible]	LBarrett			
DATE ▶	3/26/84	3/27/84	3/[illegible]84	3/7/84			

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

Five core debris samples were taken from the reactor vessel during reactor building entries last week. The sample probe was inserted into the debris bed as deep as possible using manual force. In the center of the core, the probe came to a firm stop 30 1/2 inches below the top of the debris bed. The stop depth coincided with an inconel spacer grid location at approximately the 304 feet 3 inches elevation in the core. Debris samples were also taken through an open control rod drive mechanism midway between the core center and the periphery. In this location, the probe penetrated to elevation 303 feet 5 3/4 inches, approximately 37 inches below the top of the debris surface.

Core video mapping is scheduled for the week of March 26, 1984. The reactor vessel penetration will be closed during the week of April 1, 1984, and the following week, the reactor coolant system (RCS) will be refilled and pressurized. The RCS is being refilled to increase boron concentration in preparation for defueling and the subsequent pressurization will enhance letdown flow to permit processing the RCS through the submerged demineralizer system.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Decontamination of areas necessary to provide access for surveillance testing of safety related equipment continued during the week. The Decay Heat Pump cubicles on the 258' level of the Auxiliary Building are now accessible. The oil-laden water has been pumped from the two cubicle sumps. Samples from the sumps are being analyzed in preparation for hydrolazing the decay heat pump cubicle walls and floors. Additional work includes performing internal decay heat system decontamination by draining, flushing, then refilling the system, performing maintenance on the decay heat system pumps and valves, and returning the Decay Heat System to service.

PERFORMANCE APPRAISAL SECTION (PAS) TEAM INSPECTION:

A three week onsite NRC:IE Performance Appraisal Section (PAS) team inspection effort was completed on March 23, 1984 with an exit interview with senior licensee management. The team is comprised of Inspection and Enforcement NRC headquarters staff, augmented by a TMIPO staff member. The final team report is to be issued in May 1984.

The objective of the team, which included seven people, was to evaluate the management control systems that have been established in support of licensed activities. The inspection results provide input to the NRC evaluation of licensees from a broad perspective. The inspection included review of programs, observations of activities and interviews with a wide range of personnel at the site, GPUN headquarters and Bechtel in Gaithersburg, Maryland.

WASTE MANAGEMENT ACTIVITIES:

SDS and EPICOR II waste water systems will be shut down for maintenance until early April at which time the refilling of the Reactor Coolant System will begin. The 'A' Reactor Coolant Bleed Tank will be the source for the treated water refill. Chemical adjustment of the boron concentration in the 'A' Reactor Coolant Bleed Tank is being performed by transferring water to it from the Boric Acid Mix Tank.

PUBLIC MEETINGS:

Future Meetings

1. On March 28, 1984 Lake Barrett will participate on WVLV's, Lebanon, Pennsylvania, radio question and answer program.

2. On March 29, 1984 the Advisory Panel for the Decontamination of Three Mile Island, Unit 2 will meet from 7:00 p.m. to 10:00 p.m. in the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania. The meeting will be open to the public. The major topic for the meeting will be the PEIS Supplement. Persons that have questions pertaining to the TMI-2 cleanup that would like to have them considered or addressed by the Advisory Panel and persons desiring the opportunity to speak before the Advisory Panel on TMI-2 cleanup related items are asked to contact, in writing Mr. Joel Roth, R. D. #1, Box 411, Halifax, Pennsylvania 17032.

3. On April 12, 1984, the Advisory Panel for the Decontamination of Three Mile Island, Unit 2 will meet from 7:00 p.m. to 10:00 p.m. in the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania. The major topic will be a discussion of issues pertaining to cleanup activities at the TMI Nuclear Generating Station.

APPENDIX 1

LIQUID EFFLUENT DATA

GPU Nuclear

During the period March 17, 1984 through March 23, 1984 there were no liquid effluent releases from Unit II.

Environmental Protection Agency

Lancaster Water Samples:	7 samples
Period Covered:	March 4 - March 10, 1984
Results:	Gamma Scan Negative
TMI Water Samples:	7 samples
Period Covered:	March 3 - March 10, 1984
Results:	Gamma Scan Negative

APPENDIX 2

ENVIRONMENTAL DATA

NRC Environmental Data

Results from the NRC continuous air sampler monitoring of the TMI site environment are as follows:

Sample	Period	I-131 (uCi/cc)	Cs-137 (uCi/cc)
HP-411	March 15, 1984 - March 22, 1984	<1.0 E-13	<1.0 E-13

APPENDIX 3

RADIOACTIVE MATERIALS/RADWASTE SHIPMENT DATA

-- March 19, 1984, 20 steel boxes of non-compacted trash from TMI-1 were shipped to Barnwell Waste Management Facility, Barnwell, South Carolina.

-- March 20, 1984, a limited quantity shipment of check sources was shipped from TMI-2 to Oyster Creek.

-- March 20, 1984, 6 steel boxes and 64 steel drums of compacted and non-compacted trash from TMI-1 were shipped to Barnwell Waste Management Facility, Barnwell, South Carolina.

-- March 21, 1984, 122 steel drums of contaminated laundry were shipped to Interstate Uniform Service, New Kensington, Pennsylvania.

APPENDIX 4

WATER PROCESSING DATA

Submerged Demineralizer System (SDS)

SDS was shutdown this week.

EPICOR II

EPICOR II was shutdown this week.

APPENDIX 5

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: N/A

Major Parameters as of 6:00 AM, March 23, 1984 (approximate values):
Average Incore Thermocouples*: 88°F
Maximum Incore Thermocouple*: 143°F

RCS Loop Temperatures:

	A	B
Hot Leg**	60°F	68°F
Cold Leg (1)	62°F	65°F
(2)	62°F	65°F

Reactor Core Decay Heat: 18.0 Kilowatts

RCS Pressure: 0 psig

Reactor Building: Temperature: 63°F
Pressure: -0.28 psig
Airborne Radionuclide Concentrations:

7.2 E-8 uCi/cc H^3 (Tritium)
(sample taken 3/22/84)

1.7 E-8 uCi/cc particulates
(predominately Cs-137)
(sample taken 3/19/84)

*Uncertainties exist as to the exact location and accuracy of these readings. Maximum incore thermocouple reading taken February 22.
**Since the RCS draindown, hot leg temperature detectors are above water level.