June 25, 1984
NRC/TMI-84-045

MEMORANDUM FOR: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Bernard J. Snyder, Program Director
TMI Program Office

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

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
June 17, 1984 - June 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 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
-- TMI Occupational Dose
-- Waste Management
-- Public Meeting

Data summary sheets included in this report are:

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

/s/

Philip J. Grant
Acting Deputy Program Director
TMI Program Office

Enclosure: As stated

OFFICE ►	TMIPO	TMIPO	TMIPO
SURNAME ►	DCollins:wd	ANFasano	PJGrant
DATE ►	6/25/84	6/25/84	6/25/84

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ENCLOSURE

REACTOR BUILDING ACTIVITIES:

The Reactor Coolant System was depressurized, vented and drained to below the reactor vessel flange in preparation for head removal which is scheduled for August 1984. Reactor vessel head detensioning and stud removal is expected to be completed by mid July.

During entries next week, water shield columns will be installed around the head storage stand and the post head lift work platform will be assembled inside the reactor building. The platform will eventually be placed on the internals indexing fixture above the open reactor vessel to support workers and equipment during plenum removal preparations. The internals indexing fixture is a six feet high cylinder which will be placed on the reactor vessel head flange to serve as a water shield container during post head lift operations. The combined effect of the shielding above the open reactor vessel and around the head on its storage stand is expected to maintain post head lift radiation levels inside the reactor building at approximately the same level as prior to head lift.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Work continued on the refurbishment of the "A" fuel pool with water flushing of the lower tanks. Installation of the makeup and purification demineralizer elution system continued.

TMI OCCUPATIONAL DOSE:

Licensee TLD (Thermoluminescent Dosimeter) records indicate the following station occupational radiation doses for the period May 1 - 31, 1984.

Unit 1 and Unit 2 Combined Dose Ranges

Category in Rem	Number of Station Personnel
No Measurable Dose	1221
Dose Less Than 0.1	268
0.1 to 0.25	49
0.25 to 0.5	34
0.5 to 0.75	8
0.75 to 1	2
1 to 2	0
2 to 3	0
Above 3	0

Total Doses	Man-Rem
Unit 2 (May)	30.9
Unit 2 (Year-to-Date)	166.6
Units 1 & 2 TLD (May)	34.357
Units 1 & 2 TLD (Year-to-Date)	201.651

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 has also processed batch 94 from the neutralizer tanks. A total of 13,696 gallons were processed. Processing took place from June 16 to June 21, 1984.

EPICOR II processed batch 213 from the "A" monitor tank on June 15 - 16, 1984. Total volume processed was 10,662 gallons.

EPICOR II processed batch 214 from the "A" monitor tank during June 20 - 21, 1984. Total volume processed was 10,890 gallons.

PUBLIC MEETING:

On July 2, 1984, Phil Grant will meet with the Friends and Family of TMI in the NRC's office located at 100 Brown Street, Middletown, to discuss issues pertaining to TMI.

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 15 - 21, 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 3.8 E-6 (0.0000038) of a curie of Cs-137 was discharged.

Environmental Protection Agency

Lancaster Water Samples:	7 samples
Period Covered:	June 3 - 9, 1984
Results:	Gamma Scan Negative
TMI Water Samples:	7 samples
Period Covered:	June 2 - 9, 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.

Sample	Period	Volume	I-131 (uCi/cc)	Cs-137 (uCi/cc)
HP-424	June 13 - 21, 1984	320.4 m^3	< 1.1 E-13	< 1.1 E-13

APPENDIX 3

RADIOACTIVE MATERIALS/RADWASTE SHIPMENT DATA

-- On June 15, 1984, a Unit 1 liquid sample was sent to Teledyne Isotopes at Westwood, New Jersey for analysis.

-- On June 19, 1984, a Unit 2 shipment consisting primarily of control rod drive mechanism cables and auxiliary fuel handling bridge parts was sent to Quadrex Corporation at Oak Ridge, Tennessee.

-- On June 20, 1984, a combined Unit 1 and 2 shipment consisting of radioactively contaminated laundry was sent to Interstate Nuclear Services at New Kensington, Pennsylvania.

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 22, 1984 (approximate values):
Average Incore Thermocouples*: 95°F
Maximum Incore Thermocouple*: 122°F

RCS Loop Temperatures:

	A	B
Hot Leg**	78°F	82°F
Cold Leg (1)	80°F	77°F
(2)	80°F	78°F

Reactor Core Decay Heat: 16.5 kiloWatts

RCS Pressure: 0 psig

Reactor Building: Temperature: 78°F
Pressure: -0.1 psig
Airborne Radionuclide Concentrations:

6.4 E-8 uCi/cc H^3 (Tritium)
(sample taken 6/18/84)

1.8 E-9 uCi/cc particulates
(predominately Cs-137)
(sample taken 6/19/84)

*Uncertainties exist as to the exact location and accuracy of these readings.
**Since the RCS draindown, hot leg temperature detectors are above water level.