

November 28, 1983
NRC/TMI-83-074

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
November 20 - November 26, 1983

Data from effluent and environmental monitoring systems indicated no plant releases in excess of regulatory limits. Waste shipments continued on a routine basis. Plant parameters showed no significant changes. The reactor coolant system is depressurized and RCS level remains at 321'6" as part of underhead characterization studies.

Site activities this week included: Auxiliary Fuel Handling Building decontamination, "A" spent fuel pool refurbishment and procedure review. One reactor building entry was made in support of technical specifications and miscellaneous tasks. (For more details see appropriate paragraphs below.)

Significant items covered in the enclosure are:

- Reactor Building Activities
- Polar Crane Status
- Spent Fuel Pool "A" Refurbishment
- Auxiliary and Fuel Handling Building Activities
- 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

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//XXXX ORIGINAL SIGNED BY:
Philip J. Grant for//
Lake H. Barrett
Deputy Program Director
TMI Program Office

TDR-5
TMI

OFFICE	Enclosure: As stated					
SURNAME						
DATE						

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SURNAME ▶	SB	AFASANO	Barrett	LBarrett		
DATE ▶	11/10/83	11/25/83	11/28/83	11/ /83		

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

Reactor building entries are continuing at the rate of one per week. Ongoing reactor building activities include weekly primary system water sampling and a project to obtain a water and sludge sample from the reactor coolant drain tank. Reactor building activities are expected to continue at a minimal level during the remainder of 1983. The reactor building recovery schedule for 1984 is being developed based on the projected 1984 recovery funding.

POLAR CRANE STATUS:

As reported in the last Weekly Status Report, the NRC staff has approved the load testing of the polar crane. The tests probably will not begin until the first quarter of next year because of a shortage of funds. Early notice of the test schedule will be provided in the Weekly Status Report when the schedule is established by GPUN.

SPENT FUEL POOL "A" REFURBISHMENT:

Use of the "A" spent fuel pool will be required for the transfer and temporary storage of fuel and debris from the damaged reactor core. Therefore, the tanks and associated piping installed for the staging of accident generated water must be removed to allow for refurbishment of the pool. This work has been in progress since the spring of this year.

Decontamination efforts in the upper tank farm are continuing. Two flushes with processed water were carried out this week. Further plans call for removal of the manway covers and use of high-pressure water jets to remove the more tenacious sludge from the inner walls and flush it to the tank drains.

Two concrete shield slabs were successfully removed from over the tank farm and placed in the decontamination enclosure in the fuel handling building truck bay. Removal and decontamination of six additional slabs is expected to take three to four weeks. Subsequent to successful tank decontamination and shield slab removal, two tanks (approximately 2,200 cubic foot/each) will be removed from the upper tank farm. This tank removal operation is scheduled to occur early next year.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Work on the expansion of the 328 ft. elevation decontamination facility continued this week. Partial operation of the facility has begun. Full operation should occur in a few weeks following the receipt of additional equipment components.

Other decontamination activities in the auxiliary and fuel handling building continue to be curtailed due to funding constraints.

WASTE MANAGEMENT ACTIVITIES:

No EPICOR demineralizers were shipped from TMI this week. Demineralizers F-38 and K-12 have been dewatered in preparation for shipment.

PUBLIC MEETINGS:

1. On December 5, 1983, Lake Barrett will meet with the Concerned Mothers of Middletown to discuss TMI related issues.
2. On December 8, 1983, the Three Mile Island Unit 2 Advisory Panel 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. The major topic for the meeting will be the 1984 plans for lifting the reactor vessel head. 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, 4705 Carlisle Pike, Mechanicsburg, Pennsylvania 17055.

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 November 18, 1983 through November 24, 1983 no liquid effluent releases were made from individual sources within Unit 2.

Environmental Protection Agency

Lancaster Water Samples:	7 samples
Period Covered:	November 6 - November 12, 1983
Results:	Gamma Scan Negative
TMI Water Samples:	6 samples
Period Covered:	November 7 - November 12, 1983
Results:	Gamma Scan Negative

APPENDIX 2

ENVIRONMENTAL DATA

EPA Environmental Data

The EPA measures Kr-85 concentrations at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>October 28 - November 11, 1983</u> (pCi/m ³)
Goldsboro	23
Middletown	23
Yorkhaven	21
TMI Observation Center	24

- 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 November 15, 1983 through November 23, 1983.

NRC Environmental Data

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

<u>Sample</u>	<u>Period</u>	<u>I-131</u> (uCi/cc)	<u>Cs-137</u> (uCi/cc)
HP-394	November 18, 1983 - November 23, 1983	<1.09 E-13	<1.09 E-13

APPENDIX 3

RADIOACTIVE MATERIALS/RADWASTE SHIPMENT DATA

- On November 23, 1983, a drum containing a jib crane pendant and electrical control cables from TMI-2 was shipped to Westinghouse, Hanford Company, Richland, Washington.
- On November 23, 1983, 64 drums of contaminated laundry from TMI-1 and TMI-2 were shipped to Interstate Uniform Service, New Kensington, Pennsylvania.
- On November 23, 1983, a 500 milliliter SDS sample from TMI-2 was shipped to Department of Energy, Idaho Field Operations, Idaho Falls, Idaho.

APPENDIX 4

WATER PROCESSING DATA

Submerged Demineralizer System (SDS)

SDS was shutdown during the week.

EPICOR II

EPICOR processed batch 191 which consisted of 2900 gallons of water from the miscellaneous waste holdup tank.

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, November 23, 1983 (approximate values):

Average Incore Thermocouples*: 91°F

Maximum Incore Thermocouple*: 120°F

RCS Loop Temperatures:

	A	B
Hot Leg**	62°F	64°F
Cold Leg (1)	55°F	66°F
(2)	55°F	66°F

Reactor Core Decay Heat: 20.0 Kilowatts

RCS Pressure: 0 psig

Reactor Building: Temperature: 60°F

Pressure: -0.26 psig

Airborne Radionuclide Concentrations:

3.7 E-7 uCi/cc H³ (Tritium)
(sample taken 11/21/83)

3.2 E-9 uCi/cc particulates
(predominately Cs-137)
(sample taken 11/21/83)

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

**Since the RCS draindown, hot leg temperature detectors are above water level.