

October 29, 1984  
NRC/TMI-84-077

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

FROM: William D. Travers, Deputy Program Director  
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR  
OCTOBER 21, 1984 - OCTOBER 27, 1984

Data from effluent and environmental monitoring systems indicated no plant release 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: scabbling and sealing of reactor building floor surfaces, plenum assembly inspection, and continued fuel pool "A" refurbishment.

Significant items covered in the enclosure are:

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

Summary sheets included in this report are:

- Liquid Effluent and Environmental Data
- Plant Status Data

ORIGINAL SIGNED BY:

William D. Travers  
Deputy Program Director  
TMI Program Office

Enclosure: As stated

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OFFICE							
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SURNAME ▶	DCollins/Imp	RCook <i>RC</i>	PGcant <i>PGcant</i>	Wtravers		
DATE ▶	10/24/84	10/27/84	10/27/84	10/28/84		

## ENCLOSURE

### REACTOR BUILDING ACTIVITIES:

The pre-removal inspections of the reactor vessel plenum commenced on Thursday, October 25, 1984. The inspection objectives include verification, by means of closed circuit television and long handled tools, that the plenum structural integrity has remained intact and that any existing plenum deformations will not interfere with plenum removal. The inspection procedures include techniques to remove partial length fuel assemblies which have adhered to the bottom surface of the plenum. The 55-ton plenum is scheduled to be transferred from the reactor vessel to storage in the deep end of the pool during the second quarter of 1985.

### AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Refurbishment activities in the "A" fuel pool continued this week. All tanks have now been externally decontaminated and removed from the building. The six tanks are being temporarily stored onsite pending final disposition. Work is presently in progress to decontaminate the steel fuel pool liner in preparation for reinstallation of the redesigned fuel transfer equipment. Fuel pool refurbishment should be completed within the next three months.

The makeup and purification resin elution process has been on hold this past week. Valve MEF-V288, the suction throttle valve on the "B" eductor system, failed in a partially open position while making valve adjustments to begin processing batch M06B. Maintenance action has been initiated to repair the valve, but there is presently no estimated completion date for the work because of difficulties in procuring replacement parts.

### PUBLIC MEETINGS:

1. On October 30, 1984, Dr. William Travers will speak to the Metropolitan-Edison Company Consumer Advisory Council in Lebanon, Pennsylvania. He will speak on the NRC's role at the Three Mile Island nuclear station.
2. On October 31, 1984, Dr. Bernard J. Snyder, Director, TMI Program Office, will be speaking at the 12th Annual Illinois Energy Conference in Chicago. He will provide an update on the TMI-2 Cleanup Program.
3. On November 7, 1984, the NRC Commissioners will be meeting in a public session with the NRC staff and management to review the TMI-2 cleanup schedule and funding. The meeting is scheduled to start at 10 AM in the Commission Meeting Room, 11th Floor, 1717 H Street, NW, Washington, DC.
4. The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on November 8, 1984, from 7:00 PM to 10:00 PM in the Lancaster City Council Chambers, Public Safety Building, 201 North Duke Street, Lancaster, Pennsylvania. The meeting will be open to the public.

At this meeting the Panel will receive reports from the licensee and U.S. Environmental Protection Agency (EPA) on the results of onsite and offsite Krypton-85 monitoring during the reactor pressure vessel head lift operation. The Department of Health, Commonwealth of Pennsylvania, will present a



summary of health related studies conducted in the vicinity of the TMI site since the accident. The licensee will also brief the Panel on their investigation into a recently discovered instance of apparent noncompliance with administrative procedures that occurred during the refurbishment of the polar crane.

Persons desiring the opportunity to speak before the Panel are asked to contact Mr. Thomas Smithgall at 717-291-1042 or write to him at 2122 Marietta Avenue, Lancaster, Pennsylvania 17603. Persons desiring to submit topics or questions for consideration by the Panel are asked to contact, in writing, Mayor Arthur Morris, 120 North Duke Street, Lancaster, Pennsylvania 17602.

APPENDIX 1

LIQUID EFFLUENT AND ENVIRONMENTAL 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 October 19, 1984 through October 25, 1984, liquid 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  $4.0 \text{ E-6}$  ( $0.000004$ ) of a curie of Cs-137 and less than  $8.0 \text{ E-7}$  ( $0.0000008$ ) of a curie of gross beta activity were discharged.

Environmental Protection Agency

Lancaster Water Samples: 7 samples

Period Covered: October 7 - October 13, 1984

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: 7 samples

Period Covered: October 6 - October 13, 1984

Results: Gamma Scan Negative for reactor related radioactivity

NRC Environmental Data

The NRC operated continuous outdoor air sampler at the TMI site did not detect any reactor related radioactivity. The air sampler parameters are listed below. The analysis results were less than the lower limit of detectability of the analytical instruments: less than  $8.0 \text{ E-14}$   $\mu\text{Ci/cc}$  for I-131 and less than  $8.0 \text{ E-14}$   $\mu\text{Ci/cc}$  for Cs-137.

<u>Sample</u>	<u>Period</u>	<u>Volume</u>
HP-442	October 17 - 24, 1984	439.1 m <sup>3</sup>

APPENDIX 2

PLANT STATUS

Reactor Vessel Configuration: Reactor vessel open with modified internals indexing fixture installed

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) to reactor building ambient

Available Core Cooling/Makeup Sources:

Standby pressure control (SPC) system  
Reactor coolant bleed tank (RCBT) water transfer system  
Mini decay heat removal (MDHR) system

Major Parameters as of 5:00 AM, October 26, 1984 (approximate values):

Reactor Coolant System: (Feed and Bleed Operation in Progress)

Loop Temperatures:

	A	B
Cold Leg (1)	78°F	68°F
(2)	78°F	68°F

Reactor Core:

Average Incore Thermocouples:\* 93°F  
Maximum Incore Thermocouple:\* 102°F  
Decay Heat: 15 kilowatts

Reactor Building: Temperature: 63°F  
Pressure: -0.14 psig

Airborne Radionuclide Concentrations:

Tritium: 1.0 E-8 uCi/cc (sample 10/23/84)  
Particulates: 2.1 E-9 uCi/cc (sample 10/25/84)  
predominately Cs-137

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