

August 31, 1984
NRC/THI-84-065

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

Bernard J. Snyder, Program Director
THI Program Office

FROM: William D. Travers, Acting Deputy Program Director
THI Program Office

SUBJECT: NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
AUGUST 26, 1984 - AUGUST 31, 1984

Data from effluent and environmental monitoring systems indicated no plant release in excess of regulatory limits. Plant parameters have shown no significant changes. Site activities this period included: scabbling of floor surfaces in the reactor building, solidification of spent resins and oily wastes; auxiliary and fuel handling building decontamination and routine waste processing.

Significant items covered in the enclosure are:

- Reactor Building Activities
- Auxiliary and Fuel Handling Building Activities
- THI Occupational Dose
- Offsite Monitoring and Environmental Sampling
- Public Meeting

Summary sheets included in this report are:

- Liquid Effluent and Environmental Data
- Plant Status Data

ORIGINAL SIGNED BY:

William D. Travers
Acting Deputy Program Director
THI Program Office

Enclosure: As stated

8409110460 840831
PDR ADOCK 05000289
R PDR

*EDR 5
TAL
10/10/84*

OFFICE					
SUMMARY					
DATE					

INTERNAL DISTRIBUTION

EDO
OGC
Office Directors
Commissioner's Technical Assistants
NRR Division Directors
NRR A/D's
Regional Administrators
IE Division Directors
TAS
EIS
TMI Program Office Staff (10)
PHS
EPA
DOE
RI Division Directors
Public Affairs, RI
State Liaison, RI
TMIPO HQ r/t
TMI SITE r/t
CENTRAL FILE
NRC PDR
LOCAL PDR
TMI-2 Project
Section File

OFFICE ▶	TMIPD	TMIPD	TMIPD	TMIPD		
BY/PROGRAM ▶	DCollins/Imp	RCook	PGra2t	WTravers		
DATE ▶	8/3/84	8/3/84	8/ /84	8/ /84		

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

Reactor building floor decontamination is continuing during daily entries. Scabbling machines are being used to remove the upper 1/8 inch of surface paint and concrete from the floor surface. Scabbling is expected to continue through the month of September.

The pre-removal inspection of the reactor vessel plenum assembly is scheduled to commence in October. The inspection procedures will step methods to remove attached fuel assembly fragments and other debris from the underside of the plenum. The attached debris will be knocked off the plenum with long handled tools. The debris will settle to the top of the rubble pile in the core region and will eventually be removed during defueling.

Major milestones on the cleanup schedule include the following:

Plenum inspection	October 1984
Initial plenum lift (four inch lift using in-vessel jacks)	December 1984
Plenum transfer to refueling canal	May 1985
Commence defueling (Vacuuming)	July 1985
Commence defueling using long handled tools	October 1985
Defueling complete	June 1987

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Work continues on the 'A' fuel pool refurbishment. Removal of piping associated with the feed manifold to the submerged demineralizer system is expected to be completed this week. Removal of the concrete shielding blocks, the two remaining upper tanks and the two lower tanks is expected to start next week.

The temporary cement solidification system has been disassembled and removed from the truck bay in the fuel handling building. Preoperational testing of the makeup and purification demineralizer elution system began this week.

TMI OCCUPATIONAL DOSE:

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

Unit 1 and Unit 2 Combined Dose Ranges

<u>Category in Rem</u>	<u>Number of Station Personnel</u>
No Measurable Dose	1213
Dose Less Than 0.1	259
0.1 to 0.25	92
0.25 to 0.5	77
0.5 to 0.75	35
0.75 to 1	25
1 to 2	7
2 to 3	0
Above 3	0

<u>Total Doses</u>	<u>Man-Rem</u>
Unit 2 (July)	91.3
Unit 2 (Year-to-Date)	312.2
Units 1 & 2 TLD (July)	102.197
Units 1 & 2 TLD (Year-to-Date)	365.049

OFFSITE MONITORING AND ENVIRONMENTAL SAMPLING:

On August 30, 1984, representatives from the US Nuclear Regulatory Commission's TMI Program Office (Middletown), the Environmental Protection Agency Middletown Field Station and from the Pennsylvania Department of Environmental Resources accompanied Mr. and Mrs. Norman Aamodt to three locations to conduct informal alpha and beta-gamma surveys. No readings above normal background levels were found. Soil and water samples were taken at two locations and will be analyzed at a future date.

PUBLIC MEETING:

On September 19, 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 Panel will receive a presentation from the NRC staff on the staff's findings relative to the issue of alleged harassment by the licensee's management of specific individuals in the employment of GPUNC over issues of health and safety. The Panel will then hold a general discussion on alleged harassment of employees by management over issues of health and safety at TMI-2. The licensee will also provide the Panel with an update on anticipated funding of the cleanup effort for calendar year 1985 and beyond. The Panel will report on any issues relative to the TMI-2 cleanup effort contained in specific TMI-1 restart NRC Commission Meeting transcripts.

Persons desiring to submit topics or questions for consideration by the Advisory Panel are asked to contact, in writing, Mayor Arthur Morris, 120 North Duke Street, Lancaster, Pennsylvania 17602. Persons desiring the opportunity to speak before the Panel are asked to contact Mr. Thomas Smithgall at 2122 Marietta Avenue, Lancaster, Pennsylvania 17603 (telephone 717-291-1041).

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 August 24 through August 31, 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 1.6 E-6 (0.0000016) curies of gross beta radioactivity and 2.3 E-6 (0.0000023) curies of Cs-137 were discharged.

Environmental Protection Agency

Lancaster Water Samples: 7 samples

Period Covered: August 12 - August 18, 1984

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: 7 samples

Period Covered: August 11 - August 18, 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: 8.5 E-14 uCi/cc for I-131 and 8.5 E-14 uCi/cc for Cs-137.

<u>Sample</u>	<u>Period</u>	<u>Volume</u>
HP-434	August 22 - 29, 1984	409.6 m ³

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 6:00 AM, August 31, 1984 (approximate values):

Reactor Coolant System:

Loop Temperatures:

	A	B
Hot Leg*	65°F	72°F
Cold Leg (1)	60°F	66°F
(2)	60°F	66°F

Reactor Core:

Average Incore Thermocouples:** 97°F
Maximum Incore Thermocouple:** 135°F
Decay Heat: 16 kilowatts

Reactor Building: Temperature: 65°F
Pressure: -0.04 psig

Airborne Radionuclide Concentrations:

Tritium: 2.6 E-8 uCi/cc H³ (sample 8/27/84)
Particulates: 1.2 E-9 uCi/cc (sample 8/29/84)
predominately Cs-137

*Since the RCS is drained down below these temperature detectors, they are no longer indicative of RCS temperatures.

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