

October 5, 1984
NRC/TMI-84-073

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
SEPTEMBER 30, 1984 - OCTOBER 5, 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, makeup and purification demineralizer elution operations, continued fuel pool "A" refurbishment and routine waste processing.

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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| DATE ▶ | 10/5/84 | 10/5/84 | 10/5/84 | 10/5/84 | | | |

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

The reactor vessel plenum inspection schedule is being impacted by the lack of polar crane availability in the reactor building. The polar crane has not been released for use after apparent refurbishment discrepancies were identified during an inspection. The licensee's report is due to be received by TMIPO on October 5, 1984 and will be reviewed by the staff prior to returning the polar crane to service.

The licensee's dose reduction efforts by scabbling floor surfaces in the reactor building, conducted over the last two months, have been largely completed. Preliminary radiation surveys indicate a 40-50% reduction in general area dose rates on the 347' elevation has been realized. TMIPO will review the final survey data and report.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Refurbishment of the "A" fuel pool has continued this week. All four of the upper tanks (15,000 gallons each) have been externally decontaminated, removed from the fuel handling building and are in temporary storage onsite. Internal decontamination of the two 25,000 gallon lower tanks has begun. The removal of remaining structural steel, which was used to support the various tanks in the fuel pool, has continued this week.

The makeup and purification demineralizer radioactivity elution has continued this week in the auxiliary building. Two 200-gallon water additions and removals have been made. The first chemical addition and removal has also been completed. The elution water is pumped to the installed neutralizer tanks and will eventually be processed through the submerged demineralizer system.

PUBLIC MEETINGS:

1. The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on October 11, 1984, 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.

At this meeting the Panel will report on any issues relative to the TMI-2 cleanup effort contained in specific TMI-1 restart NRC Commission Meeting transcripts. The Panel will receive a briefing by the licensee on removal of the reactor pressure vessel plenum and other activities to be accomplished prior to commencement of fuel removal. The Panel will also discuss the appropriateness of receiving the results of specific field radiation measurements taken by State and Federal officials at the request of the public.

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).

2. 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.

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 September 28, 1984 through October 4, 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 8.6 E-7 (0.00000084) of a curie of Cs-137 and less than 8.6 E-6 (0.0000018) of a curie of gross beta activity were discharged.

Environmental Protection Agency

Lancaster Water Samples: 7 samples

Period Covered: September 16 - 22, 1984

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: 7 samples

Period Covered: September 15 - 22, 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: 6.5 E-14 uCi/cc for I-131 and 6.5 E-14 uCi/cc for Cs-137.

| <u>Sample</u> | <u>Period</u> | <u>Volume</u> |
|---------------|--------------------------------|----------------------|
| HP-439 | September 27 - October 4, 1984 | 510.8 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, October 5, 1984 (approximate values):

Reactor Coolant System:

Loop Temperatures:

| | A | B |
|--------------|------|------|
| Cold Leg (1) | 62°F | 68°F |
| (2) | 62°F | 68°F |

Reactor Core:

Average Incore Thermocouples:* 96°F
Maximum Incore Thermocouple:* 109°F
Decay Heat: 15 kilowatts

Reactor Building: Temperature: 64°F
Pressure: -0.09 psig

Airborne Radionuclide Concentrations:

Tritium: 1.3 E-7 uCi/cc (sample 10/2/84)
Particulates: 1.4 E-9 uCi/cc (sample 10/4/84)
predominately Cs-137

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