December 10, 1984
NRC/TMI-84-081

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
DECEMBER 2, 1984 - DECEMBER 8, 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: continued fuel pool "A" refurbishment, building decontamination, makeup and purification demineralizer elution, and plenum jacking.

Significant items covered in the enclosure are:

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

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 ▶					
SURNAME ▶					
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OFFICE	TMIPO	TMIPO	TMIPO	TMIPO			
SURNAME	DCollins/lmp	CCowgill	PGrant	WKister			
DATE	12/10/84	12/10/84	12/10/84	12/10/84			

NRC FORM 318 (10-80) NRCM 0240

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ENCLOSURE

REACTOR BUILDING ACTIVITIES:

The 55-ton plenum assembly was raised 2½ inches above its normal seating surface in the reactor vessel on Thursday, December 6, 1984. Four hydraulic jacks, with a combined capacity of 200 tons, were installed in the reactor vessel to initiate the lift. The jacks were designed with excess capacity in anticipation of potential plenum binding. There was no indication of binding during the lift to 2½ inches. The plenum lift was temporarily stopped at 2½ inches, as planned, to dislodge any remaining fuel assemblies and debris attached to the underside of the plenum. Long handled impact tools are being used to dislodge these attached fuel assemblies.

It is anticipated that plenum jacking will resume during the week of December 9, 1984. The plenum will be raised to 5 inches and the underside will be inspected again for attached assemblies. The long handled impact tools will be used, if necessary, to clear the underside of the plenum. The plenum will remain elevated on the jacks for several months while other defueling systems are fabricated/modified. The plenum is scheduled to be transferred from the reactor vessel to the deep end of the refueling canal in May 1985.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Decontamination of the "A" fuel pool inner surfaces continued. Water spray decontamination of cubicles has continued, including the makeup piping valve alleys in the fuel handling building.

The makeup and purification demineralizer elution process continued this week, with the sixteenth elution batch currently in progress. About 3,300 curies of the approximately 8,000 curies, predominantly cesium-137, has been removed from the damaged resins to date. Problems have been encountered with plugging of the sintered metal filters in the process stream. The plugging is believed to be caused by iron hydroxides resulting from the high pH of the elution chemicals. The problem appears to have been corrected by changes to the chemistry of the eluent stream.

PUBLIC MEETING:

The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on January 10, 1985, from 7:00 PM to 10:00 PM at the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania. The meeting will be open to the public.

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 November 30, 1984 through December 5, 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 2.9 E-6 (0.0000029) of a curie of Cs-137, less than 4.6 E-6 (0.0000046) of a curie of gross beta activity, and less than 4,8 E-6 (0.0000048) of a curie of tritium were discharged.

Environmental Protection Agency

Lancaster Water Samples: 7 samples

Period Covered: November 18 - November 24, 1984

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: 7 samples

Period Covered: November 17 - November 24, 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: 8.9 E-14 uCi/cc for I-131 and 8.9 E-14 uCi/cc for Cs-137.

Sample	Period	Volume
HP-447	November 28 - December 5, 1984	394.1 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, December 7, 1984 (approximate values):

Reactor Coolant System:

Loop Temperatures:

	A	B
Cold Leg (1)	60°F	67°F
(2)	61°F	67°F

Reactor Core:

Average Incore Thermocouples:* 93°F
Maximum Incore Thermocouple:* 107°F
Decay Heat: 14.5 kilowatts

Reactor Building: Temperature: 64°F
Pressure: -0.12 psig

Airborne Radionuclide Concentrations:

Tritium: 8.9 E-8 uCi/cc (sample 12/3/84)
Particulates: 1.2 E-9 uCi/cc (sample 12/3/84) predominately Cs-137

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