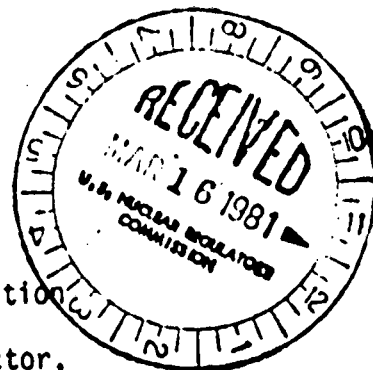




UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

March 9, 1981
NRC/TMI-81-019



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

Bernard J. Snyder, Program Director,
TMI Program Office

FROM: Lake H. Barrett, Acting Deputy Program Director,
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of March 1-7, 1981.

Lake H. Barrett for
Lake H. Barrett
Acting Deputy Program Director
TMI Program Office

Enclosure: As stated

cc: EDO
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Commissioner's Technical Assistants
NRR Division Directors
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Public Affairs, RI
T. Elsasser

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of March 1-7, 1981

Plant Status

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

Available Core Cooling Modes: Long-term cooling "B" (once through steam generator-B); decay heat removal systems.

RCS Pressure Control Mode: Standby Pressure Control (SPC) System.

Backup Pressure Control Mode: Mini Decay Heat Removal (MDHR) System.

Major Parameters (as of 0500, March 6, 1981) (approximate values)

Average Incore Thermocouples: 120°F
Maximum Incore Thermocouple: 150°F

RCS Loop Temperatures:

	A	B
Hot Leg	116°F	119°F
Cold Leg (1)	66°F	66°F
(2)	66°F	65°F

RCS Pressure: 100 psig

Reactor Building: Temperature: 58°F
Water level: Elevation 290.7 ft. (8.2 ft. from floor)
via penetration 401 manometer
Pressure: -0.4 psig
Concentration: 8.9×10^{-5} uCi/cc (Kr-85)
(sample taken 3/2/81)

Effluent and Environmental (Radiological) Information

1. Liquid effluents from TMI site released to the Susquehanna River after processing, were made within the regulatory limits and in accordance with NRC requirements and City of Lancaster Agreement dated February 27, 1980.

During the period February 27, 1981, to March 5, 1981, the effluents contained no detectable radioactivity at the discharge point for individual effluent sources which originated within Unit 2.

2. EPA Environmental Data. Results from EPA monitoring of the environment around the TMI site were as follows:

- The EPA measured Krypton-85 (Kr-85) concentrations (pCi/m^3) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>February 20 - February 27, 1981</u> (pCi/m^3)
Bainbridge	22
Goldsboro	23
Observation Center	22
Middletown	22

All of the above levels of Kr-85 are considered to be background levels.

- 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 February 25, 1981, through March 5, 1981.

3. NRC Environmental Data. Results from NRC monitoring of the environment around the TMI site were as follows:

- The following are the NRC air sample analytical results for the onsite continuous air sampler:

<u>Sample</u>	<u>Period</u>	<u>I-131</u> (uCi/cc)	<u>Cs-137</u> (uCi/cc)
HP-256	February 18, 1981-February 25, 1981	<8.1 E-14	<8.1 E-14
HP-257	February 25, 1981-March 4, 1981	<8.3 E-14	<8.3 E-14

4. Licensee Radioactive Material and Radwaste Shipments. The following shipments were made:

- On Monday, March 2, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Monday, March 2, 1981, a 15 ml Unit 2 liquid sample from the Control Building Expansion Seal Bore Hole #8 was mailed to Science Applications Incorporated (SAI), Rockville, Maryland.

- On Tuesday, March 3, 1981, twelve air sample filter papers from Unit 2 were mailed to Teledyne Isotopes, Westwood, New Jersey.
- On Tuesday, March 3, 1981, a one liter sample from the Unit 1 "B" Waste Evaporator Condensate Storage Tank (WECST) was sent to Teledyne Isotopes, Westwood, New Jersey.
- On Wednesday, March 4, 1981, paint chips from the Unit 2 Reactor Building interior were shipped to SAI, Rockville, Maryland.

Major Events

1. Reactor Building Entry. The seventh reactor building entry has been delayed to March 18, 1981. The rescheduling was necessitated by delays in constructing the equipment to sample the sump water and to perform a zeolite resin column test.
2. Contaminated Building Expansion Joint. In order to monitor the water level in the cork building expansion joint, the licensee has installed a metal tube in the joint. The tube is located in the portion of the joint that runs north-south in the control building basement, just east of the reactor building perimeter. (After heavy rain, water has been found in this joint.) The water level will be checked on a regular schedule by inserting a dip-stick into the tube.

The cork and water samples that the licensee took earlier at the expansion joint are being analyzed for radioactive contamination.

3. Test Boring Program Status. The results of analysis for gamma emitting isotopes from test boring no. 2 have been received for samples taken during February 1981. The results of the analysis are listed below.

Test Boring No. 2

<u>Date</u>	<u>Cs134 (pCi/l)</u>	<u>Cs137 (pCi/l)</u>
Feb 4	6.2	12.7
Feb 11	134.0	371.0
Feb 18	75.9	189.0
Feb 25	21.0	56.0

A trace quantity of cobalt 60 was detected in test boring no. 2 on February 11, 1981. The cobalt was not detected in any other samples.

The gamma spectroscopy analysis of samples taken in February from test borings in the vicinity of boring no. 2 did not identify any radioisotopes.

4. Neutron Source Range Monitor. A new preamplifier has been installed in the circuitry leading to the NI-2 neutron source range detector. Pulses apparently originating from gamma radiation and neutrons in the reactor are being displayed on the NI-2 channel. The licensee engineers are attempting to verify that the detected pulses are originating from the core and once this is ascertained, the licensee will calibrate the channel by adjusting the discriminator circuitry to eliminate the gamma pulses from the display.
5. Programmatic Environmental Impact Statement. The NRC's final Programmatic Environmental Impact Statement (PEIS) for the decontamination for TMI Unit 2 will be issued March 9, 1981. It will be available at the NRC's Middletown Office at 100 Brown Street. The PEIS will be subject of a Commission Briefing with the staff on the same date.

Future Meetings

On Tuesday, March 10, 1981, Lake Barrett will meet with area mothers to discuss various issues related to the decontamination of TMI Unit 2.