



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

April 6, 1981
NRC/TMI-81-023



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 29 - April 4, 1981.

Lake H. Barrett
Acting Deputy Program Director
TMI Program Office

Enclosure: As stated

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NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of March 29-April 4, 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 Modes: Mini Decay Heat Removal (MDHR) System.
Decay Heat Removal (DHR) System.

Major Parameters (as of 0500, April 3, 1981) (approximate values)

Average Incore Thermocouples: 120°F

Maximum Incore Thermocouple: 149°F

RCS Loop Temperatures:

	A	B
Hot Leg	116°F	119°F
Cold Leg (1)	67°F	67°F
(2)	67°F	66°F

RCS Pressure: 100 psig

Reactor Building: Temperature: 63°F

Water level: Elevation 290.7 ft. (8.2 ft. from floor)
via penetration 401 manometer

Pressure: -0.35 psig

Concentration: 2.85×10^{-5} uCi/cc (Krypton-85 (Kr-85))
(sample taken 3/30/81)

Effluent and Environmental (Radiological) Information

1. Liquid effluents from the 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 March 27, 1981, to April 2, 1981, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources which originated within Unit 2 contained no detectable radioactivity.

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

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

<u>Location</u>	<u>March 20 - March 27, 1981</u> (pCi/m^3)
Bainbridge	23
Goldsboro	23
Observation Center	22
Middletown	26

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 March 25, 1981, through April 2, 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-261	March 25, 1981 - April 1, 1981	$8.9 \text{ E-}14$	$8.9 \text{ E-}14$

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

- On Monday, March 30, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Wednesday, April 1, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner D-3) from Unit 1 was shipped to the Chem-Nuclear Site, Barnwell, South Carolina.
- On Thursday, April 2, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-13) from Unit 1 was shipped to the Chem-Nuclear Site, Barnwell, South Carolina.
- On Friday, April 3, 1981, two Code Safety Valves (Type A, LSA) from Unit 1 were shipped to Wyle Labs, Huntsville, Alabama.

Major Activities

1. Submerged Demineralizer System (SDS). Region I and TMI Program Office inspections of the SDS are continuing. On March 31, 1981, and April 1, 1981, the TMI Program Office held discussions with the licensee to obtain additional information needed for the Safety Evaluation Report (SER). Information which was not readily available, will be provided by the licensee at a later date. The SER will contain NRC's evaluation of the SDS along with NRC's decision concerning the system's operation.
2. Reactor Building Entry and Purge. A short entry into the Unit 2 reactor building (RB) has been scheduled for Wednesday, April 8, 1981. The entry was scheduled after photographs taken during entry seven, in March, revealed that the location chosen for the installation of a floating sump pump was not suitable. The floating sump pump is to be used to transfer water from the RB sump to feed tanks in preparation for processing by the SDS or in the event of leakage from the RB, the pump would be used to transfer RB sump water to other onsite tanks for storage. During the planned entry next week, three men will survey the area around the open stairwell on the 305 ft. elevation to determine whether this area is suitable for lowering the pump into the sump water. If work progresses on schedule, the pump will be installed on the subsequent RB entry which is scheduled for April 30, 1981.

Prior to the April 8, 1981, entry, the RB will be purged. Based on sample results, approximately 2 curies of Kr-85 are dispersed in the RB air.

3. Ground Test Borings. There have been no significant changes observed in the latest analysis of water from the test borings on the TMI site. Tritium levels in the borings have remained in the same ranges as reported previously. The cesium activity in boring number 2 has decreased to below the lower limit of detection. The lower limit of detection for radioactive cesium is approximately 5 pCi/l.

Future Meetings

On Tuesday, April 21, 1981, Lake Barrett will meet with area mothers to discuss various issues related to the decontamination of TMI Unit 2.