



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

November 3, 1980
NRC/TMI-80-144

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

Bernard J. Snyder, Program Director,
TMI Program Office

FROM: John T. Collins, Deputy Program Director,
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the week of October 26 - November 1, 1980.

John T. Collins
Deputy Program Director
TMI Program Office

Enclosure: As stated

cc: LDO
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NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of October 26 - November 1, 1980

Plant Status

Core Cooling Mode: Cyclic natural circulation in the "A" reactor coolant system (RCS) loop via the "A" once through steam generator (OTSG), steaming to the main condenser, and RCS loop-A and B cyclic natural circulation to reactor building ambient.

Available Core Cooling Modes: OTSG "B" to the main condenser; long-term cooling "B" (OTSG-B); decay heat removal.

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

Backup Pressure Control Mode: One of two decay heat removal pumps to supply pressure in conjunction with variable recirculation back to the borated water storage tank (BWST) to provide control of pressure.

Major Parameters (As of 0500, October 31, 1980) (approximate values)

Average Incore Thermocouples: 139°F

Maximum Incore Thermocouple: 180°F

RCS Loop Temperatures:

	A	B
Hot Leg	139°F	142°F
Cold Leg (1)	85°F	82°F
(2)	77°F	78°F

RCS Pressure: 98 psig (DVM)
80 psig (Heise)

Pressurizer Temperature: 78°F

Reactor Building: Temperature: 73°F
Water level: Elevation 290.5 ft. (8.0 ft. from floor)
via penetration 401 manometer
Pressure: -0.3 psig (Heise)
Concentration: 1.25×10^{-4} uCi/cc (Kr-85) (sample
taken 10/29/80)

Environmental & Effluent Information

1. Liquid effluents from TMI-1 released to the Susquehanna River, after processing, were within the limits specified in Technical Specifications.
2. No liquid effluents were discharged from TMI-2.

3. 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/m³) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>October 17 - 24, 1980</u> (pCi/m ³)
Bainbridge	17
Goldsboro	20
Observation Center	22
Middletown	Insufficient Sample

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

- No radiation above normally occurring background levels were detected in any of the samples collected from the EPA's air and gamma rate networks during the period from October 22 through October 30, 1980.

4. 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-239	October 22 - October 29, 1980	<8.2 E-14	<8.2 E-14

- Environmental TLD measurements for the period August 26 through September 30, 1980, have been completed. Evaluation of the TLD results and the statistical fluctuations indicate gamma radiation to be within the expected range of the natural background levels.

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

- On Monday, October 27, 1980, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W) Lynchburg, Virginia.
- On Wednesday, October 29, 1980, a box containing Unit 2 air filter papers was mailed to Teledyne Isotopes, Westwood, New Jersey.
- On Wednesday, October 29, 1980, a Unit 1 Waste Evaporator Condensate Storage Tank (WECST) "A" Start-up sample was mailed to Teledyne Isotopes, Westwood, New Jersey.

Major Activities

1. Mini Decay Heat (MDH) System. The MDH system remains in an operational status pending turnover to the operations group and issuance of technical specifications.
2. Reactor Building Entry and Purge. The next entry into the Unit 2 reactor building is scheduled for November 13, 1980. A minor purge of Kr-85 is expected prior to the entry. The tasks for the entry are being reviewed by the onsite NRC staff. Specifics will be detailed in next week's report.
3. Reactor Decay Heat Cooling. Reactor Coolant System (RCS) temperature parameters continue to remain at approximate steady state values (see plant status section). On three occasions during the week incore thermocouple temperatures decreased approximately 5°F. It appeared a small amount of natural circulation flow occurred in the RCS.

The Loss of Decay Heat to Ambient Test is expected to start early next week. Initial temperature changes are anticipated to be extremely slow due to already established equilibrium between decay heat input and loss to ambient output in the RCS.

The onsite NRC staff continues to review this area.

4. Ground Water Monitoring Program. The ground water monitoring program to detect radioactive water leakage from the reactor building sump to the ground water is continuing. Following a pump test at monitoring Well No. 2 on August 23, 1980, the maximum tritium level was measured at 4,940 picocuries per liter after the test. This value is within noted concentration values during previous observations.

Meetings Held

1. On Tuesday, October 28, 1980, J. Collins attended a luncheon meeting of the Steelton Kiwanis to discuss the contents of the draft Programmatic Environmental Impact Statement (PEIS) and status of cleanup operations at TMI-2. One of the major concerns expressed by those who attended the meeting was the schedule for possible restart of TMI-1.
2. On Wednesday, October 29, 1980, B. Snyder, J. Collins, P. Leech, O. Lynch, C. Hickey, L. Chandler and T. Elsasser held a public meeting at Havre de Grace, Maryland to discuss the contents of the draft PEIS. The major concern expressed by those who attended the meeting was the potential adverse environmental effect on the lower Susquehanna River and the Chesapeake Bay which might result from activities related to the cleanup of TMI-2. There was universal opposition to the dumping of any processed radioactive waste water into the Susquehanna River. Many people voiced the opinion that radioactive releases to the river, no matter how small, would have adverse effects on the shell fish and fishing industries in the Chesapeake Bay.
3. On Friday, October 31, 1980, J. Collins, T. Elsasser, W. Kirk, EPA, and T. Gerusky, DER, met with the Lebanon Valley Chamber of Commerce to discuss the contents of the draft PEIS. Those who attended the meeting expressed serious concern about the possibility of a one year delay until TMI-1 would be restarted. It was the opinion of those at the meeting that a delay of this nature would have very serious adverse financial impact on central Pennsylvania. Methods of petitioning the NRC Commissioners for relief from the current shut down order were discussed at some length. It is most probable that as a result of this meeting the Commissioners will be contacted by area Chambers of Commerce on this issue.

Future Meetings

1. On Thursday, November 6, 1980, J. Collins will address the Middletown Rotary on the status of the TMI-2 cleanup program and the contents of the draft PEIS.
2. A public meeting has been scheduled for Monday, November 10, 1980, at the auditorium of the Forum Building, Harrisburg, to discuss the draft PEIS. Participating in the meeting will be NRC Commissioner V. Gilinsky, B. Snyder, J. Collins, F. Congel, T. Elsasser, and M. Bills from EPA.