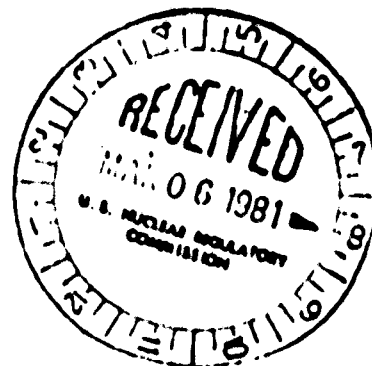




UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20546

March 2, 1981  
NRC/TMI-81-017



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 February 22-28, 1981.

*Lake H. Barrett*

Lake H. Barrett  
Acting Deputy Program Director  
TMI Program Office

inclosure: As stated

cc: EDO  
OGC  
Office Directors  
Commissioner's Technical Assistants  
NRR Division Directors  
NRR A/D's  
Regional Directors  
IE Division Directors  
IOUS  
IOMA  
TMI Program Office Staff (15)  
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EPA  
Projects Br. No. 2 Chief, DPRI, RI  
DPRI Chief, RI  
Public Affairs, RI  
T. Elsasser

# NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of February 22-28, 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, February 27, 1981) (approximate values)

Average Incore Thermocouples: 118°F

Maximum Incore Thermocouple: 151°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: 99 psig

Reactor Building: Temperature: 61°F

Water level: Elevation 290.6 ft. (8.1 ft. from floor)  
via penetration 401 manometer

Pressure: -0.4 psig (Heise)

Concentration:  $6.7 \times 10^{-5}$  uCi/cc (Kr-85)  
(sample taken 2/24/81)

## 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 20, 1981, to February 26, 1981, the effluents contained no detectable radioactivity at the discharge point although individual effluent sources which originated within Unit 2 contained minute amounts of activity. Calculations indicate that less than two millionths (0.000002) of a curie of cesium-137 (Cs-137) was discharged. This represents less than 0.00002% of the permissible total liquid activity as specified in Technical Specifications for operational commercial reactors.

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 ( $\text{pCi}/\text{m}^3$ ) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>February 13 - February 20, 1981</u> ( $\text{pCi}/\text{m}^3$ )
Bainbridge	21
Goldsboro	22
Observation Center	28
Middletown	25

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 18, 1981, through February 26, 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> ( $\text{uCi}/\text{cc}$ )	<u>Cs-137</u> ( $\text{uCi}/\text{cc}$ )
HP-256	February 18, 1981-February 25, 1981	*	*

\*Sample results are not available due to a temporary outage of EPA counting equipment. EPA reported that the counting equipment will be restored to service by March 2, 1981. NRC air monitoring results will be reported in the next status report.

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

- On Monday, February 23, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Friday, February 27, 1981, 55 drums containing Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.

## Major Activities

1. Submerged Demineralizer System (SDS). SDS construction is approximately 84% complete. Initial testing of completed portions is in progress while construction is ongoing. The testing verifies the proper operation of equipment and does not involve processing radioactive water. The licensee is preparing an update to the Technical Evaluation Report which should be available for NRC review by the middle of March (the report has been delayed approximately two weeks).
2. Contaminated Building Expansion Joint. During the period February 21-23, 1981, there were intermittent and sometimes heavy rains in the TMI area. The air intake tunnel sump filled with water, and some water seeped past the doorway from the tunnel to the service building. Contamination had previously been found in the cork building-expansion joint in this area, so a sample of the seepage was taken by the licensee.

Later, a water sample was taken in a previously sampled expansion joint in the auxiliary building.

Both of these samples, together with an expansion joint sample taken in the control building after the previous heavy rain (on February 11, 1981) are being analyzed for radioactive contamination.

3. Reactor Building Entry and Purge. The seventh entry into the Unit 2 reactor building has been delayed until March 11, 1981. The rescheduling was necessitated by delays in constructing equipment which is to be used during the entry. The equipment includes a device to pass sump water through a zeolite column and collect the effluent for analysis and a second device which will be used to obtain four samples of sump water for off site analysis. Additional tasks which are scheduled for the seventh entry include the servicing of valves, additional radiation surveys, polar crane inspection, and intercom telephone repairs. Twelve men are scheduled to participate in the entry which will extend over a two day period.

Prior to the entry, a reactor building purge will be conducted to reduce the concentration of Kr-85 gas. Calculations indicate that there will be less than 6 curies of Kr-85 released during the purge.

### Meeting Attended

On Tuesday, February 24, 1981, Lake Barrett had a spontaneous meeting at the NRC's Middletown Office with area mothers. They expressed their feelings that TMI Unit 1 should not be restarted while Unit 2 is being cleaned up. They also felt that the NRC Commissioners were not adequately considering the stress that would be created in some area residents if Unit 1 was restarted. Lake Barrett assured them that their concerns would be communicated to the Commissioners and other appropriate NRC staff. He also mentioned that they could express their concerns on a more formal basis, in writing or orally, before the Atomic Safety and Licensing Board on March 5, 1981, at 7:00 p.m. in Harrisburg at the William Penn Museum.

### Future Meeting

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