



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

November 21, 1980  
NRC/TMI-80-149

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November

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 November 16-22, 1980. Because of two licensee holidays next week (Thursday and Friday) and therefore limited workload, the next status report will be issued December 8, 1980, covering the two week period November 23 - December 6, 1980.

*John T. Collins*  
John T. Collins  
Deputy Program Director  
TMI Program Office

Enclosure: As stated

cc: EDO  
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# NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of November 16 - 22, 1980

## Plant Status

Core Cooling Mode: Cyclic natural circulation in the "A" and "B" reactor coolant system (RCS) loops with heat transfer to reactor building ambient (air and sump water).

Available Core Cooling Modes: OTSG "A" or "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, November 21, 1980) (approximate values)

Average Incore Thermocouples: 139°F

Maximum Incore Thermocouple: 175°F

RCS Loop Temperatures:

	A	B
Hot Leg	134°F	137°F
Cold Leg (1)	74°F	75°F
(2)	74°F	74°F

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

Pressurizer Temperature: 76°F

Reactor Building: Temperature: 71°F  
Water level: Elevation 290.5 ft. (8.0 ft. from floor)  
via penetration 401 manometer  
Pressure: -0.2 psig (Heise)  
Concentration:  $4.35 \times 10^{-5}$  uCi/cc (Kr-85) (sample taken 11/19/80)

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

<u>Location</u>	<u>November 7 - November 14, 1980</u> ( $\text{pCi}/\text{m}^3$ )
Bainbridge	20
Goldsboro	20
Observation Center	33
Middletown	28

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 November 12 through November 20, 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> ( $\text{uCi}/\text{cc}$ )	<u>Cs-137</u> ( $\text{uCi}/\text{cc}$ )
HP-242	November 12 - November 19, 1980	<8.1 E-14	<8.1 E-14

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

- On Monday, November 17, 1980, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W) Lynchburg, Virginia.
- On Tuesday, November 18, 1980, five EPICOR-I pre-filter effluent samples (P-4 and P-13), totalling 1250 ml, were mailed to Science Applications Incorporated, Rockville, Maryland.
- On Thursday, November 20, 1980, twenty-four boxes containing Unit 2 non-compacted waste were shipped to the Nuclear Engineering Company, Richland, Washington.

### Major Activities

1. Reactor Decay Heat Cooling. The Loss of Decay Heat to Ambient Test (transfer of reactor decay heat to the reactor building ambient) is continuing. No appreciable change in reactor core/cooling system steady state (equilibrium) temperature have been noticed since the commencement of the test on November 6, 1980.

The licensee will be submitting a proposal to the NRC to justify the shutdown of the secondary plant for long term layup based on the data obtained from the Loss of Decay Heat to Ambient Test.

2. Reactor Building Purge/Entry. The next reactor building entry is tentatively scheduled for December 11, 1980. Pre-entry purges are anticipated.
3. EPICOR-II. On November 3, 1980, the EPICOR-II system was restarted after a three month outage period. During this period, the system went through minor repairs and modifications. The accumulated waste water is from the decontamination flush activities and support equipment water in-leakage to the auxiliary building sump. Designated waste water was transferred to the "B" reactor coolant bleed tank for sample analysis prior to processing through EPICOR-II. Approximately 50,000 gallons of wastewater has been processed since the restart.

### Meetings Held

1. On Monday, November 17, 1980, B. Snyder, L. Barrett, P. Leech, O. Lynch and M. Bills (EPA) met with local officials, citizens and press at the Baltimore City College in Baltimore, Maryland, to discuss the contents of the draft Programmatic Environmental Impact Statement (PEIS). The major issue discussed at the meeting was the possibility of discharging the processed water from TMI-2 into the Susquehanna River and the fear that it may contaminate the Chesapeake Bay and thereby impacting the fishing industries and water supply.
2. On Wednesday, November 19, 1980, at 10:30 a.m., J. Collins appeared on WHP-TV 21 to discuss the status of the cleanup at TMI-2. At 12:45 p.m. J. Collins also appeared live on WCMB Radio from Strawberry Square in Harrisburg with Joel Roth (former Chairman of TMI Alert) to discuss various issues concerning current and future activities at Three Mile Island.
3. On Wednesday, November 19, 1980, Chairman J. Ahearne, B. Snyder, J. Collins, L. Barrett and M. Bills (EPA) met with local officials, citizens and press at the Middletown Community Hall to discuss the contents of the draft PEIS. This was the final public meeting prior to the completion of the comment period, which ended November 20, 1980. Major comments received from those who attended were the following: the possibility of discharging water into the Susquehanna River, the impact of continuing effluent releases during the cleanup operation, long-term health effects, the need for public participation in the decision making process, the need for considering decommissioning of TMI-2 in the PEIS, and the need to consider the psychological stress issue. The public also complained about the short notice given to the meeting and the lack of media publicity of the meeting.

### Future Meetings

1. During the week of November 24 - 28, 1980, J. Collins will attend and chair a meeting at International Atomic Energy Agency (IAEA) in Vienna of the Advisory Group on the Retention of Gaseous Radionuclides from Nuclear Power Plants. The meeting is being sponsored by the IAEA.
2. During the week of December 1 - 5, 1980, J. Collins will attend and chair a meeting of experts on the Air Cleaning Systems Under Accident Situations. The meeting is being sponsored by the Organization for Economic Cooperation and Development in Paris.