



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

January 12, 1981
NRC/TMI-81-003

MEMORANDUM FOR: Harold R. Denton, Director,
Office of Nuclear Reactor Regulation
Bernard J. Snyder, Program Director,
TMI Program Office

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

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of January 4 - 10, 1981.

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

Enclosure: As stated

cc: EDO
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NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of January 4 - 10, 1981

Plant Status

Core Cooling Mode: Cyclic natural circulation in the reactor coolant system (RCS) loops with heat transfer to reactor building ambient.

Available Core Cooling Modes: Once Through Steam Generator (OTSG) "A" and/or "B" steaming to the main condenser; long-term cooling "B" (OTSG-B); decay heat removal systems.

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

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

Major Parameters (As of 0500, January 9, 1981) (approximate values)

Average Incore Thermocouples: 125°F

Maximum Incore Thermocouple: 159°F

RCS Loop Temperatures:

	A	B
Hot Leg	122°F	125°F
Cold Leg (1)	69°F	69°F
(2)	68°F	69°F

RCS Pressure: 95 psig (DVM)

Pressurizer Temperature: 69°F

Reactor Building: Temperature: 64°F
Water level: Elevation 290.6 ft. (8.1 ft. from floor)
via penetration 401 manometer
Pressure: -0.4 psig (Heise)
Concentration: 1.2×10^{-4} uCi/cc (Kr-85) (sample taken 1/7/81)

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.

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>December 19 - December 29, 1980</u> (pCi/m^3)
Bainbridge	18
Goldsboro	25
Observation Center	18
Middletown	25
	<u>December 29, 1980 - January 5, 1981</u> (pCi/m^3)
Bainbridge	19
Goldsboro	20
Observation Center	29
Middletown	27

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 December 30, 1980, through January 8, 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-249	December 30, 1980-January 8, 1981	<6.9 E-14	<6.9 E-14

4. Licensee Radioactive Material and Radwaste Shipments. The following shipment was made:

- On Monday, January 5, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.

Major Activities

1. Reactor Decay Heat Removal. On January 5, 1981, the licensee stopped steaming the "A" DTSG by shutting a turbine bypass valve. This put the RCS in a "Loss to Ambient" mode of cooling which is heat transfer of reactor decay heat from both RCS loops to the reactor building ambient.
2. Reactor Building Purge/Entry. Reactor building entries with associated purging is scheduled to start on January 27, 1981. At that time two entries are scheduled to occur on two separate days. The onsite staff is reviewing the scheduled work items for these entries.
3. Ground Water Monitoring Status. The licensee continued their well water monitoring program. The licensee reported to the NRC that a sample taken from well No. 2 on October 1, 1980, contained trace quantities of Cesium-137 (Cs-137) (34 ± 6.3 pCi/l) and Cs-134 (12.8 ± 5.5 pCi/l). Subsequent analysis of well No. 2 water samples taken on October 8, 15, and November 5, 1980, did not contain detectable levels of either Cs-134 or Cs-137.

Independent analysis of well No. 2 water is being performed by the NRC and EPA. The analytical results will be reported in the next weekly status report.

Future Meeting

On Thursday, January 22, 1981, L. Barrett will attend a public briefing in Harrisburg, at the Forum, beginning at 7:30 p.m., sponsored by the Department of Environmental Resources concerning the status of decontamination at Three Mile Island. Following the presentation, the NRC, the EPA and Metropolitan Edison will be available to answer questions.