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May 18, 1981
 NRC/TMI-81-029



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 May 10 - 16, 1981.

Lake H. Barrett
 Acting Deputy Program Director
 TMI Program Office

Enclosure: As stated

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DATE	5/18/81	5/18/81	5/18/81	5/18/81	5/18/81

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of May 10 - 16, 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, May 15, 1981) (approximate values)

Average Incore Thermocouples: 115°F

Maximum Incore Thermocouple: 142°F

RCS Loop Temperatures:

	A	B
Hot Leg	112°F	114°F
Cold Leg (1)	65°F	66°F
(2)	66°F	65°F

RCS Pressure: 100 psig

Reactor Building: Temperature: 66°F

Water level: Elevation 290.8 ft. (8.3 ft. from floor)
via penetration 401 manometer

Pressure: -0.29 psig

Concentration: Kr-85 concentration was Less than the
Lower Limit Detectable (sample taken
5/14/81)

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 May 8, 1981, through May 14, 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>May 1 - May 8, 1981</u> (pCi/m^3)
Goldsboro	23
Observation Center	28
Middletown	30
Yorkhaven	22

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 May 7, 1981, through May 14, 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-267	May 6, 1981 - May 13, 1981	<8.9 E-14	<8.9 E-14

4. Licensee Radioactive Material and Radwaste Shipments

- On Monday, May 11, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W) Lynchburg, Virginia.
- On Tuesday, May 12, 1981, one 4' x 4' EPICOR-II dewatered resin liner (liner DF-8) from Unit 2 was shipped to U.S. Ecology, Richland, Washington.
- On Tuesday, May 12, 1981, one 4' x 4' EPICOR-II dewatered resin liner (liner DF-14) from Unit 2 was shipped to U.S. Ecology, Richland, Washington.
- On Thursday, May 14, 1981, nine liners (50 cu. ft. each in steel overpacks) containing solidified evaporator bottoms from Unit 1 were shipped to the Chem-Nuclear site, Barnwell, South Carolina.
- On Friday, May 15, 1981, 81 drums containing Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.

Major Activities

1. Reactor Building Entry. The tenth entry into the Unit 2 Reactor Building (RB) was completed on Thursday, May 14, 1981. Three of the four tasks scheduled for the entry were completed successfully. The attempt to attach safety lines to the polar crane was aborted when the men assigned to the task were unable to climb onto the crane because of limited physical accessibility. The procedure will be revised for this job and this task will be rescheduled for a future entry.

The task to retrieve eight samples from the RB sump was completed in less time than anticipated and the resultant total body exposures to the participating personnel averaged in the 200 mr range rather than the predicted 800 mr range. Two sets of samples were retrieved from four different elevations in the eight foot deep sump water. The bottommost samples, taken approximately two inches above the RB floor, were noticeably darker than the other six samples. The samples will be analyzed off site.

Two men completed a beta and gamma survey of the control rod drive structure in preparation for future work on the reactor head. The survey included swipe samples and area radiation surveys.

A decontamination experiment was performed on a 2,000 square foot area of the RB. High and low pressure hot water sprays were used. The sprays had a very noticeable visual cleaning effect on the RB floor. The decontamination effectiveness of the sprays is being evaluated. During the decontamination experiment, the RB purge flow was monitored for an increase in effluent radiation levels. No increase was detected.

The next RB entry is tentatively scheduled for May 28, 1981.

2. Submerged Demineralizer System (SDS). Preparation of the Safety Evaluation Report (SER) by the TMI Program Office is in progress although some necessary information has not yet been received. On April 30, 1981, the licensee submitted a revised schedule for providing the needed information.

Fuel pool "B" has been completely filled with EPICOR-II processed water and functional tests are scheduled to be completed during the next reporting period (week of May 17, 1981). The licensee is scheduled to perform operator training following completion of the functional tests. The operator training will not involve processing of contaminated water.

Meeting Held

On Wednesday, May 13, 1981, Lake Barrett participated in a public panel discussion in Lancaster sponsored by the Susquehanna Valley Alliance to discuss TMI. Bernard Snyder, Oliver Lynch, Frank Congel and Lynn O'Reilly of the NRC, Office of Nuclear Reactor Regulation, also attended, providing specialized support. Panel members included Mr. Ken Miller, Hershey Medical Center; Dr. William Kirk, EPA; Mr. Lake Barrett, NRC; Dr. George Tokuhata, PA Department of Health; Dr. John Randall, Lancaster General Hospital; and Dr. Willis Bixby, Department of Energy. The major areas of concern were the ultimate disposition of TMI cleanup wastes, general health effects, infant mortality, and psychological stress resulting from the Unit 2 accident and possible restart of Unit 1.

Future Meeting

On Thursday, June 4, 1981, the Advisory Panel for the Decontamination of TMI Unit 2 will meet from 7:00 p.m. to 10:00 p.m. in the City Council Chambers, Kendig C. Bare Public Safety Building, 208 North Duke Street, Lancaster. At this meeting, which is open for public observance, the Panel will discuss Radiation Worker Exposure and Health Effects.