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April 20, 1981
NRC/TMI-81-025



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 April 12-18, 1981.

ORIGINAL SIGNED BY:
R. R. Bellamy for/

Lake H. Barrett
Acting Deputy Program Director
TMI Program Office

Enclosure: As stated

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SURNAME	JWabe/lmp	Conka	MShanbaky	AFasano	RBellamy	LBarrett
DATE	4/20/81	4/30/81	4/20/81	4/20/81	4/20/81	4/20/81

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of April-12-18, 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 0400, April 17, 1981) (approximate values)

Average Incore Thermocouples: 117°F

Maximum Incore Thermocouple: 146°F

RCS Loop Temperatures:

	A	B
Hot Leg	115°F	118°F
Cold Leg (1)	67°F	67°F
(2)	67°F	66°F

RCS Pressure: 99 psig

Reactor Building: Temperature: 66°F

Water level: Elevation 290.7 ft. (8.2 ft. from floor)
via penetration 401 manometer

Pressure: -0.25 psig

Concentration: 1.4×10^{-5} uCi/cc (Krypton-85 (Kr-85))
(sample taken 4/13/81)

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 April 10, 1981, through April 16, 1981, the effluents contained no detectable radioactivity at the discharge point although individual effluent sources which originated within Unit 2 contained minute amounts of radioactivity. Calculations indicate that less than 1 millionth (0.000001) of a curie was discharged. This represents less than 0.00001% of the permissible total liquid activity as specified in Technical Specifications for operational commercial reactors.

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>April 3 - April 10, 1981</u> (pCi/m^3)
Goldsboro	26
Observation Center	29
Middletown	36
Yorkhaven	29

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 April 10, 1981, through April 17, 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-263	April 8, 1981 - April 15, 1981	<8.7 E-14	<8.7 E-14

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

- On Monday, April 13, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Tuesday, April 14, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-14) from Unit 1 was shipped to the Chem-Nuclear Site, Barnwell, South Carolina.
- On Tuesday, April 14, 1981, a Unit 2 shipment of 30 drums of laundry was sent to Tri-State Industrial Laundries, Utica, New York.
- On Thursday, April 16, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-15) from Unit 1 was shipped to the Chem-Nuclear Site, Barnwell, South Carolina.

Major Events

1. Submerged Demineralizer System (SDS). Region I and TMI Program Office inspections of the SDS are continuing. Preparation of the Safety Evaluation Report (SER) by the TMI Program Office is in progress although some necessary information has not yet been received. The licensee has submitted a schedule for providing the needed information.

The licensee is performing functional tests of the SDS components to verify that the equipment will operate as designed. The testing does not involve processing of contaminated water. The fuel pool in which the SDS is located is expected to be filled by the end of April. The fuel pool will be filled with water that was previously processed by EPICOR-II.

2. Reactor Building Entry. The next entry into the Unit 2 reactor building (RB) is scheduled for Thursday, April 30, 1981. The licensee has redesignated the entry numbering sequence. A 40 minute RB entry which took place on April 8, 1981, was initially called an entry 8 pre-entry. The 40 minute entry has now been redesignated as entry 8 and the April 30th entry has been designated as entry 9.

During entry 9, the licensee will perform a decontamination experiment on the 305 ft elevation of the RB. Approximately 2,000 square feet of horizontal and vertical surfaces will be decontaminated using low and high pressure water sprays. Pre- and post-decontamination radiation surveys will be used to evaluate the effectiveness of the techniques. The low and high pressure water sprays are techniques which proved effective in decontaminating the auxiliary building.

In preparation for the decontamination experiment, the licensee has submitted a proposal to modify RB penetration R-561. The R-561 penetration is a flanged, 10 inch diameter pipe through the RB wall which was originally installed for use with the chemical cleaning system. The licensee plans to install packing glands in the outer flange of the penetration. Water spray and breathing air hoses will be routed into the RB through the packing glands in the outer flange. The inner flange of the penetration will be removed. The onsite NRC staff is reviewing the proposed penetration modification.

A floating sump pump is also scheduled to be installed during entry 9. This pump is being installed to remove sump water from the RB in preparation for processing in the SDS. The pump will be lowered into the sump water from the 305 ft elevation through the open stairway access. The pump discharge will be routed out of the RB through penetration R-626 on the 347 ft. elevation. The NRC staff is reviewing a licensee proposal to install the sump pump discharge pipe through penetration R-626.

Future Meeting

On Tuesday, April 21, 1981, Lake Barrett will meet with area mothers to discuss various issues related to the decontamination of TMI-2.