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May 24, 1982
NRC/TMI-82-034



MEMORANDUM FOR: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Bernard J. Snyder, Program Director
TMI Program Office

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

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of May 16, 1982 to May 22, 1982.
Major items included in this report are:

- Liquid Effluents
- NRC and EPA Environmental Data
- Radioactive Material and Radwaste Shipments
- Submerged Demineralizer System Status
- EPICUR II
- Reactor Coolant System Water Processing
- Reactor Building Entries
- Submerged Demineralizer Liner Shipment
- Public Meetings

Original signed by
Lake H. Barrett

Lake H. Barrett
Deputy Program Director
TMI Program Office

Enclosure: As stated

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Harold R. Denton
Bernard J. Snyder

-2-

May 24, 1982

cc w/encl:

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ME	G...man:js	RConte	MShanbaky	AFasand	RBellamy	LBarrett	
TE	5/24/82	5/24/82	5/24/82	5/24/82	5/24/82	5/24/82	

HRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

May 16, 1982 - May 22, 1982

Plant Status

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) loops to reactor building ambient.

Available Core Cooling Modes: Decay heat removal (DHR) systems, Mini DHR (MDHR) system.

RCS Pressure Control Mode: Standby pressure control (SPC) system.
NOTE: During Reactor Coolant System feed and bleed, pressure will be maintained with a Reactor Coolant Bleed Tank Pump. Automatic back up pressure control will be provided by the standby pressure control system.

Backup Pressure Control Modes: MOHR and DHR system.

Major Parameters (as of 0500, May 21, 1982) (approximate values)

Average Incore Thermocouples: 99°F
Maximum Incore Thermocouple: 127°F

RCS Loop Temperatures:

	A	B
Hot Leg	94°F	96°F
Cold Leg (1)	87°F	79°F
(2)	89°F	81°F

Pressure: 67 psig

NOTE: During reactor coolant system feed and bleed, pressure is maintained at approximately 70 psig.

Reactor Building: Temperature: 70°F
Water level: Elevation 282.8 ft.
(0.14 ft. from floor)
Pressure: -0.18 psig
Airborne Radionuclide Concentrations:
4.5 E-7 uCi/cc H³
(sample taken 5/4/82)
7.8 E-6 uCi/cc Kr⁸⁵
(sample taken 5/4/82)
5.3 E-10 uCi/cc particulates
(sample taken 5/13/82)

1. Effluent and Environmental (Radiological) Information

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 14, 1982, through May 20, 1982, 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 seventy millionths (0.000070) of a curie of tritium was discharged.

2. Environmental Protection Agency (EPA) Environmental Data

- The EPA Middletown Office has not received the environmental Kr-85 analytical results for the samples which were taken April 16, 1982, through May 7, 1982, from the EPA's Counting Laboratory at Las Vegas, Nevada. These results will be included in a subsequent report.
- 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 12, 1982 through May 20, 1982.

3. NRC Environmental Data

The NRC continuous air sampling equipment was placed out of service for the period May 8, 1982, through May 17, 1982. Repairs to the equipment are completed, and the unit is back in service. Results for sample HP-320 (May 17, 1982, through May 26, 1982) will be included in next week's report.

4. Licensee Radioactive Material and Radwaste Shipment

- On Monday, May 17, 1982, one Unit 1 sample (250 milliliter, decay heat A) was shipped to Westinghouse Corporation, Madison, Pennsylvania.
- On Monday, May 17, 1982, one drum containing Unit 2 Reactor Building sample equipment was shipped to EG&G Idaho, Inc., Scoville, Idaho.
- On Monday, May 17, 1982, one box containing Unit 2 Reactor Building samples (strippable coating samples from the decontamination experiment) was shipped to the Brookhaven National Labs, Upton, New York.
- On Wednesday, May 19, 1982, one container of Unit 1 samples (various locations) was shipped to Westinghouse Corporation, Madison, Pennsylvania.
- On Friday, May 21, 1982, a Unit 2 SDS (Submerged Demineralizer System) vessel D-15, was shipped to the Pacific Northwest Laboratory, Hanford, Washington.

- On Tuesday, May 18, 1982, Three Mile Island Unit 2 regained the right to deposit low-level radioactive waste (rags and clothing) at the U. S. Ecology burial site in Richland, Washington. TMI-2's burial permit was restored based on a commitment by GPU Nuclear to tighten its inspection of drums before shipment and to discuss the problem with the vendor of the shipping drums. The burial permit had been suspended by the state of Washington on May 5, 1982, after U. S. Ecology received one drum containing low specific activity from TMI-2 with a broken locking ring.

Major Activities

1. Submerged Demineralizer System (SDS). Processing of Reactor Coolant System (RCS) water commenced on May 21, 1982. When processing of this batch is complete, the SDS effluent will be sampled to ensure the water chemistry is in specification for makeup to the RCS. This water will then be used to feed the RCS during the next feed and bleed cycle.
2. EPICOR II. The EPICOR II system is shutdown because no water is ready for processing.
3. Reactor Coolant System (RCS) Feed and Bleed. The first RCS feed and bleed cycle commenced on May 17, 1982. Flow rate from the letdown was greater than anticipated, reducing the time required to feed and bleed the first batch (approximately 50,000 gallons) to four days. RCS letdown samples taken prior to and during the feed and bleed are shown in Attachment 1.
4. Reactor Building Entries. No reactor building entry was conducted during the week of May 17, 1982 through May 21, 1982. The next reactor building entry is scheduled for Wednesday, May 26, 1982. The following support activities for the control rod drive lead screw removal project are planned.
 - repositioning of closed circuit television cameras
 - entry into the "D" ring area for visual inspection
 - control rod drive mechanism tool inventory

Other activities include:

- radiological survey to support entry personnel
- removal of HPR-214 (drum containing dome radiation monitor) from the reactor building
- retesting of smoke detectors

The lead screw removal and closed circuit television inspection of the reactor vessel upper internals are scheduled for July 1982.

5. Submerged Demineralizer System Liner Shipment. On May 21, 1982, the first SDS waste vessel (D-10015) was shipped from TMI to Richland, Washington. This ten cubic foot SDS vessel, which was used to process waste water from the reactor coolant bleed tanks (RCBT's), contained approximately 13,000 curies of total radioactive material and was shipped in a special type B (designed for accidents) cask. The DOE, who took possession of this waste material at TMI, will sponsor research and development glass vitrification (solidification) testing at the Hanford, Washington facility. The NRC and DOT inspected the shipping container and transport vehicle to ensure conformance with applicable Federal regulations. The shipment is scheduled to arrive at the DOE facility on May 24, 1982.

Past Meetings

1. On May 19, 1982, Lake Barrett met with a group of Concerned Mothers to discuss the TMI-2 cleanup funding impasse. They expressed their concern that the cleanup was not progressing at full speed and the uncertainty of future funding may further reduce cleanup efforts. They stated their willingness to work with all interested parties to promptly resolve the funding problem since cleanup delays increase the risk of adverse health effects on their families and cause considerable psychological stress.

As non-GPU ratepayers they realize that they, as well as all electricity users, need to cooperate and contribute to resolve the financial problem.

2. On May 20, 1982, Harold Denton and Bernard Snyder testified before Senator Staffords Committee on Environment and Public Works in Washington. NRC testimony is attached.

Future Meetings

1. On May 24, 1982, Lake H. Barrett and Richard Bangart, Effluent Treatment Systems Branch, will be keynote speakers at the Center for Nuclear Studies, Memphis State University, Memphis, Tennessee.
2. On May 26, 1982, a public meeting will be held. On that date a briefing will be held by the DOE to the NRC Commissioners on DOE activities at TMI. Assistant Secretary for Nuclear Energy, Mr. Shelby Brewer and staff will make the presentation.
3. On May 27, 1982, Ronald R. Bellamy will present a talk on basic radiation principles to the fifth graders in the Derry Township Elementary School, Hershey, PA.

ATTACHMENT i

Feed and Bleed Start 5/17/82 - Stop 5/20/82

<u>Date</u>	<u>Time</u>	<u>Cs-137 (uc/ml)</u>	<u>Sr-90 (uc/ml)</u>	<u>Sb-125 (uc/ml)</u>	<u>Turbidity (JTU)</u>
5/10	1000	14	18	--	--
5/17	1300	13	16	$<8.4 \times 10^{-2}$	28
5/17	2000	16	17	$<9.3 \times 10^{-2}$	36
5/18	2000	8.7	16	--	23
5/19	0900	8.2	11	$<6.5 \times 10^{-2}$	24
5/19	2030	8.3	7.9	$<6.7 \times 10^{-2}$	23