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February 18, 1983
NRC/TMI-83-014

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 February 13, 1983, through February 18, 1983. Major items included in this report are:

- Liquid Effluents
- EPA and NRC Environmental Data
- Radioactive Material and Radwaste Shipments
- Loan of NRC Equipment to Middletown Post Office
- Submerged Demineralizer System Status
- EPICOR II Status
- Reactor Building Entries
- SDS Liner Shipment Preparations
- EPICOR II Prefilter 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

February 18, 1983

cc w/encl:
EDO
OGC
Office Directors
Commissioner's Technical Assistants
NRR Division Directors
NRR A/D's
Regional Administrators
IE Division Directors
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EIS
TMI Program Office Staff (15)
PHS
EPA
DOE
RI Division Directors
Public Affairs, RI
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HM
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DATE	2/18/83	2/18/83	2/18/83	2/ /83	2/18/83	2/18 /83

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

February 13, 1983 - February 18, 1983

Plant Status

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

Available Core Cooling Mode: Mini Decay Heat Removal (MDHR) system.

RCS Pressure Control Mode: Standby Pressure Control System.

Major Parameters (as of 5:00 AM, February 18, 1983) (approximate values)

Average Incore Thermocouples*: 93°F

Maximum Incore Thermocouple*: 135°F

RCS Loop Temperatures:

	A	B
Hot Leg	77°F	78°F
Cold Leg (1)	72°F	81°F
(2)	70°F	82°F

RCS Pressure: 64 psig

Reactor Building: Temperature: 65°F

Pressure: -0.2 psig

Airborne Radionuclide Concentrations:

4.8 E-7 uCi/cc H³
(sample taken 2/17/83)

6.2 E-9 uCi/cc particulates
(sample taken 2/17/83)

1. Effluent and Environmental (Radiological) Information

Liquid effluents from the TMI site released to the Susquehanna River after sampling and monitoring were within the regulatory limits and in accordance with NRC requirements and City of Lancaster Agreement.

During the period February 11, 1983 through February 17, 1983, 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 eight millionths (0.000008) of a curie of cesium were discharged.

*Uncertainties exist as to the exact location and accuracy of these readings.

2. Environmental Protection Agency (EPA) Environmental Data

The EPA measures Kr-85 concentrations at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>January 21 - February 4, 1983</u> (pCi/m ³)
Goldsboro	25
Middletown	25
Yorkhaven	26
TMI Observation Center	25

- The EPA Middletown Office has not received the environmental Kr-85 analytical results for the samples which were taken subsequent to February 4, 1983 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 monitoring networks during the periods from February 9, 1983 through February 17, 1983.

3. NRC Environmental Data

- 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-357	February 9 - February 17, 1983	<6.5 E-14	<6.5 E-14

4. Licensee Radioactive Material and Radwaste Shipments

- On February 10, 1983, 20 steel boxes containing non-compacted waste from Unit 1 and Unit 2 were shipped to U.S. Ecology, Richland, Washington.
- On February 13, 1983, one 1-13C-II (Type B) shipping cask containing SDS Liner No. D10013 was shipped to Rockwell Hanford Operations, Richland, Washington.
- On February 14, 1983, one box containing one 1,000 milliliter liquid sample taken from the Unit 1 "B" waste evaporate condensate storage tank (WECST), was sent to Radiation Management Corporation, Philadelphia, Pennsylvania.
- On February 14, 1983, one box containing scrape samples taken from the Unit 1 PORV (pilot operated relief valve) and block valve was sent to Battelle, Columbus, Ohio.

- On February 18, 1983, 88 drums containing contaminated laundry from Unit 1 and Unit 2 were shipped to Interstate Uniform Services, New Kensington, Pennsylvania.

5. Loan of NRC Equipment to Middletown Post Office

On February 14, 1983, the staff of the Middletown, Pennsylvania, U.S. Post Office received, on-loan from the TMI Program Office, a portable radiation survey meter (Thin Window Geiger Counter) in order to perform radiation surveys of various packages received for mailing. GPU mails approximately eight "small quantity" radioactive material packages per month through the Middletown Post Office. (Publication 6 of the U.S. Postal Service allows the mailing of "small quantities" of radioactive materials, and lists the conditions regulating such shipments.)

Major Activities

1. Submerged Demineralizer System (SDS). SDS processing of 41,500 gallons of reactor building sump water began on February 16, 1983, and is currently in progress. Approximately 14,500 gallons of reactor coolant system (RCS) water have been staged to the "C" reactor coolant bleed tank (RCBT) by the feed-and-bleed process, which occurred February 14-15, 1983. This will comprise the next batch of water to be processed through SDS.
2. EPICOR II. EPICOR II processed 2,500 gallons of water from the "A" once-through steam generator on February 16, 1983; its performance parameters are included in Attachment 1.
3. Reactor Building Entries. Five reactor building entries were conducted during the week of February 13, 1983. Preparations began for the polar crane load testing which is scheduled to be accomplished during the next two weeks, and for the second underhead reactor vessel characterization, which is scheduled for late March. (The characterization task is designed to inspect and verify the radiation measurements under the reactor vessel head, and on top of the reactor plenum.)

Decontamination of the "B" D-ring using remote high-pressure water spray, and "dose rate reduction tasks" were continued. Reactor building sump water processing through the submerged demineralizer system is being performed periodically as water from decontamination activities accumulates in the sump.

4. SDS Liner Shipments. Spent SDS liner D10013, which was shipped from TMI on February 13, 1983, arrived safely at the Rockwell Hanford facility (Richland, Washington) on February 16, 1983. This fourth SDS waste liner will be used as part of the DOE R&D demonstration program on special overpack containers for waste disposal. GPU is making preparations for the fifth SDS liner shipment, which is scheduled for the first week in March 1983.
5. EPICOR II Prefilter (PF) Shipments. No EPICOR PF shipments were made this week because of shipping cask availability delays. Three prefilter shipments (PF-23, 36, and 40) are scheduled for next week.

Future Meetings

On March 17, 1983, the Advisory Panel for the decontamination of TMI Unit 2 will hold a meeting at 7:00 PM, at the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania.

ATTACHMENT I

EPICOR II PERFORMANCE PARAMETERS
February 16, 1983

<u>Radionuclide</u>	<u>Average Influent</u> (uc/ml)	<u>Average Effluent</u> (uc/ml)	<u>Average DF</u>
Cesium 137	3.1×10^{-5}	3.8×10^{-7}	8.2×10^1
Strontium 90	1.7×10^{-5}	$<1.7 \times 10^{-5}$	$>1.0 \times 10^0$
Antimony 125	$<1.8 \times 10^{-6}$	$<3.0 \times 10^{-7}$	$>6.0 \times 10^0$