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NRC PDR
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Site Operations
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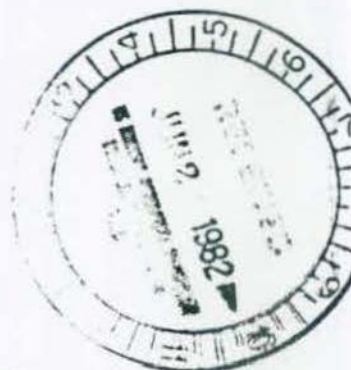
June 21, 1982
NRC/TMI-82-039

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 June 13, 1982 to June 19, 1982. Major items included in this report are:

- Liquid Effluents
- Airborne Effluents
- EPA and NRC Environmental Data
- TMI Occupational Exposure
- Radioactive Material and Radwaste Shipments
- Submerged Demineralizer System Status
- EPICOR II
- Reactor Coolant System Feed and Bleed
- Reactor Building Entry
- Groundwater Monitoring
- Axial Power Shaping Rod Movement
- Public Meeting

Original signed by
Lake H. Barrett

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Lake H. Barrett
Deputy Program Director
TMI Program Office

OFFICE	Enclosure: As stated					
IRNAME						
DATE						

Harold R. Denton
Bernard J. Snyder

June 21, 1982

cc w/encl:

- EDO
- OGC
- Office Directors
- Commissioner's Technical Assistants
- NRR Division Directors
- NRR A/D's
- Regional Administrators
- IE Division Directors
- TAS
- EIS
- TMI Program Office Staff (15)
- PHS
- EPA
- DOE
- Projects Br. #2 Chief, DPRP, RI
- DPRP Chief, RI
- Public Affairs, RI
- State Liaison, RI

see corrections

OFFICE	TMIPQ	TMIPQ	TMIPQ	TMIPQ	TMIPQ	TMIPQ
NAME	GKanon; Jes	RConte	MShanbrak	Afasano	RBellamy	LBarrat
DATE	6/2/82	6/2/82	6/2/82	6/2/82	6/2/82	6/2/82

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

June 13, 1982 - June 19, 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: MDHR and DHR system.

Major Parameters (as of 0600, June 18, 1982) (approximate values)

Average Incore Thermocouples: 99°F
Maximum Incore Thermocouple: 128°F

RCS Loop Temperatures:

	A	B
Hot Leg	94°F	96°F
Cold Leg (1)	90°F	83°F
(2)	89°F	83°F

Pressure: 65 psig

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

Reactor Building: Temperature: 72°F

Pressure: -0.25 psig

Airborne Radionuclide Concentrations:

3.3 E-8 uCi/cc H³
(sample taken 6/15/82)

6.8 E-6 uCi/cc Kr⁸⁵
(sample taken 6/9/82)

4.9 E-9 uCi/cc particulates
(sample taken 6/10/82)

5. TMI Occupational Exposure

Licensee TLD (Thermoluminescent Dosimeter) records indicate the following Unit 2 occupational radiation exposure for 1982:

May 1982	19 man-rem
Total 1982 (January-May)	139 man-rem

Man-rem is an expression for the summation of whole body doses to individuals in a group. Thus, if each member of a population group of 1,000 people were to receive a dose of 0.001 rem (1 millirem), or if two people were to receive a dose of 0.5 rem (500 millirem) each, the total man-rem dose in each case would be one man-rem.

6. Licensee Radioactive Material and Radwaste Shipment

-- On Thursday, June 17, 1982, 50 drums containing Unit 1 and Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.

Major Activities

1. Submerged Demineralizer System (SDS). Processing of the second batch (approximately 50,000 gallons) of reactor coolant system (RCS) water was completed on June 12, 1982. SDS processing parameters for the batch are shown in Attachment I.

Pumping of reactor building sump water to the SDS feed tanks commenced on June 14, 1982, and was terminated on June 15, 1982, when an SDS sand filter became loaded. Approximately 4,000 gallons were transferred. The water is being pumped from a point below the general floor level (in the incore instrument trough) of the reactor building and apparently sludge is being washed into this area, drawn into the pump suction, and collected on the sand filter. Including this 4,000 gallons, the total amount of sump water in the SDS feed tanks is now approximately 47,000 gallons. This water remains to be processed.

2. EPICOR II. The EPICOR II system is shutdown on standby status.
3. Reactor Coolant System (RCS) Feed and Bleed. The third feed and bleed cycle of the RCS commenced on June 14, 1982 and was completed on June 17, 1982. The RCS samples taken prior to and during the cycle are shown in Attachment II.
4. Reactor Building Entry. During the reactor building entry on June 17, 1982, a radiation survey was made in the open stairway going down to the 282 ft. elevation. A health physics technician descended the stairs from the 305 ft. elevation to a landing approximately eight feet above the basement floor (282 ft. elevation). Radiation levels at the landing were 12 R/hr gamma and 35 rad/hr beta. A radiation survey approximately three feet above the basement floor indicated that the gamma field was 24 R/hr. Based on a visual observation, the basement

Future Meetings

On Thursday, June 24, 1982, Lake Barrett will discuss TMI issues with State Liaison Officers from the Northeast States in the NRC's Region I office in King of Prussia, Pennsylvania.

ATTACHMENT II

RCS Feed and Bleed of 30,000 Gallons
Start 6/14/82 - Stop 6/17/82

<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>Co-60 (uc/ml)</u>	<u>Turbidity (NT)</u>
6/7	0900	4.2	11	$<2.4 \times 10^{-2}$	1.8×10^{-3}	14
6/14	1000	4.3	16	$<7.7 \times 10^{-2}$	$<8.1 \times 10^{-3}$	8.1
6/14	2100	4.6	15	$<3.4 \times 10^{-2}$	1.2×10^{-3}	7.5
6/15	1800	3.1	9.5	$<2.8 \times 10^{-2}$	$<2.5 \times 10^{-3}$	7.3
6/16	1730	1.8	9.2	$<5.2 \times 10^{-2}$	$<8.1 \times 10^{-3}$	8.4

*Nephelometric Turbidity Units - An empirical measure of turbidity based on measurement the light-scattering characteristics (Tyndall effect) of the particulate matter in the sample.

MAY 4, 1982

TEST BORING H³ CONCENTRATIONS

