DISTRIBUTION TMIPO HQ r/f TMI SITE r/f LCENTRAL FILE NRC PDR LOCAL PDR Site Operations File

October 19, 1981 NRC/TMI-81-059

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

> Bernard J. Snyder, Program Director TAI Program Office

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

SUBJECT: NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of October 10-17, 1981. Major items included in this report are:

- 1. Liquid Effluent Releases
- 2. NRC and EPA Environmental Data
- 3. Radioactive Material and Radwaste Shipments
- 4. Submarged Demineralizer System Status
- 5. EPICOR II Status

Original signed by Lake H. Barrett

Lake H. Barrett Deputy Program Directo TMI Program Office

Enclosure: As stated

B11 PDR R	1030610 811019 ADOCK 05000320
-----------------	----------------------------------

NRC FORM 318 110-807 NRCM 0240 OFFICIAL RECORD COPY						
DATE					 ••••	
ornet						

Harold R. Denton Bernard J. Snyder cc w/encl:

٠. . .

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

-	THIPO	THIPO	THIPGIT	MIPO,	THEPPM	TNIPO	
	Quilebe/1mp	RConte	MShanbaky	Arasano	RBellamy	Derrett	
DATE	90/19/81	10//1/81	10/19/81	10/14/81	10/10/81	10//9/81	
NRC FORM	318 110.801 NRCM	0240	OFFICIAL	RECORD	OPY	<u> </u>	

-2-

NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of October 10-17, 1981

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 systems. Long term cooling "B" (once through steam generator-B).

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 0600, October 16, 1981) (approximate values) Average Incore Thermocouples: 114°F Maximum Incore Thermocouple: 144°F

RCS Loop Temperatures:

Hot Leg	A 108°F	B 111 °F
Cold Leg (1)	69°F	71 °F
(2)	69°F	69°F

RCS Pressure: 87 psig

Reactor Building: Temperature: 69°F Water level: Elevation 289.7 ft. (7.2 ft. from floor) via penetration 401 manometer Pressure: -0.30 psig Concentration: 4.3 x 10⁻⁶ uCi/cc Kr-85 (Sample taken 9/28/81)

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 October 9, 1981 through October 15, 1981, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources which originated within Unit 2 contained no detectable radioactivity.

- Environmental Protection_Agency (EPA) Environmental Data. The EPA announced on July 6, 1981 that, due to a new shipping procedure for Kr-85 samples to the laboratory, the results for the Kr-85 environmental monitoring stations around TMI will not always be available on a weekly basis. The NRC will report these results as they become available.
 - -- 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 October 7, 1981, through October 15, 1981.
- NRC Environmental Data. Results from NRC monitoring of the environment around the IMI site were as follows:
 - -- The following are the NRC air sample analytical results for the onsite continuous air sampler:

Sample Period

1-131 Cs-137 (uCi/cc) (uCi/cc)

HP-289 October 7, 1981 - October 14, 1981 <8.1 E-14 <8.1 E-14

- Licensee Radioactive Material and Radwaste Shipments.
 - -- On Wednesday, October 7, 1981, one EPICOR II dewatered resin liner (F-2) was shipped to U.S. Ecology, Richland, Washington.
 - -- On Monday, October 12, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
 - -- On Honday, October 12, 1981, two TMI-1 liquid samples were shipped to Teledyne Isotopes, Westwood, New Jersey.
 - -- On Wednesday, October 14, 1981, 50 drums containing TMI-1 and TMI-2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.
 - -- On Friday, October 16, 1981, two EPICOR II dewatered resin liners (F-4 and F-5) were shipped to U.S. Ecology, Richland, Washington.

Major Activities

 Submerged Demineralizer System (SDS). Processing of batch number 7 began October 9, 1981, and as of October 16, 1981, 34,500 gallons of the 50,000 gallon batch had been processed. Processing was interupted for approximately two days for correction of reduced flow in the auxiliary building ventilation system. The problem was resolved and processing of the remainder of batch number 7 was resumed. As of October 16, 1981, approximately 100,000 gallons of reactor building sump water has been processed through the SDS.

On October 17, 1981, an SDS zeolite vessel loaded with approximately 25,000 Ci of Cs-137 and approximately 1,000 Ci of Sr-90 was successfully dewatered. The NRC onsite staff provided backshift coverage during the dewatering evolution. The dewatered vessel will be used to verify the shielding capability of the shipping cask to be used to transport the SDS vessels. This data will be used to determine if the vessels can be loaded up to approximately 60,000 Ci of Cs-137. Early during the week of October 18, 1981, the licensee is expected to commense processing batch number 8 (another 50,000 gallons of reactor building sump water).

EPICOR II. Processing of the SDS effluent through the EPICOR II
system continued this week except for the two day interuption due
to the auxiliary building ventilation problem as mentioned in the
SDS paragraph above. Another of the first stage EPICOR II liners
(F-6) along with one of the second stage liners (K-1) were removed
from the system. Two more of the first stage liners (F-4 and F-5)
have been dewatered and shipped to Richland, Washington for disposal
at a commercial burial facility. As of October 16, 1981, approximately
95,000 gallons of sump water has been polished.

Meeting Attended

On Tucsday, October 13, 1981, Lake Barrett addressed the Downingtown Rotary Club and gave an update on the cleanup efforts at TMI and discussed the functions of the NRC.

Future Meetings

 The NRC's Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet October 21, 1981, in York, Pennsylvania and November 16, 1981, in Lebanon, Pennsylvania. At both meetings, the panel plans to discuss the current status of cleanup activities at Three Mile Island.

The October 21 meeting will be held at 7:00 PM to 10:00 PM in the Hotel Yorktown, 48 East Market Street, York. The November 16 meeting will be held from 7:00 PM to 10:00 PM in the Municipal Building, 400 South 8th Street, Lebanon. Both meetings are open to the public.

 On Saturday, November 14, 1981, at 8:00 PM. Lake Barrett will participate in a panel discussion at the Elizabethtown Public Library on the government's response to the TMI accident.