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December 7, 1971 NRC/TMI-31-000

MEMORANDUM FOR:

Harold R. Denton, Director

Office of Ruclear Reactor Regulation

Bernard J. Snyder, Program Director

TMI Program Office

FROM:

Lake H. Barrett, Deputy Program Director

THI Program Office

SUBJECT:

HRC THE PROGRAM OFFICE WEEKLY STATUS REPORT

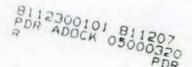
Enclused is the status report for the period of November 22, 1981 to December 5, 1931. Major items included in this report are:

- -- Liquid Effluent Releases
- -- NRC and EPA Environmental Data
- -- Radioactive Material and Radwaste Shipments
- -- Submerged Demineralizer System Status
- -- EPICOR II
- -- Reactor Building Entries
- -- Public Heetings

Lake H. Darrett Deputy Program Director THI Program Office

Inclosure: As stated

Heracon II



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WHE IM! PROGRAM OFFICE WEEKLY STATE

November 22 - December 5, 1981

Plant Status

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

Available Core Cooling Modes: Docay 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 0500, December 4, 1981) (approximate values)

Average Incore Thermocouples: 111°F

Maximum Incore Thermocouple: 137°F

RCS Loop Temperatures: (The last cycle of natural circulation occurred in the "B" loop on 12/2/81 and in the "A" loop on 12/1/81)

	A	P
Hot Leg	104°F	107 35
Cold Leg (1)	73°F	84 1
Cold Leg (1) (2)	75°F	85 °F

RCS Pressure: 95 psig

Reactor Building: Temperature: 64°F

Water level: Elevation 287.2 ft. (4.7 ft. from floor)

via penetration 401 manometer

Pressure: -0.17 psig

Concentration: 9.9 x 10-6 uCi/cc Kr-85 (Sample taken 12/2/81)

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 November 20, 1981, through December 3, 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 two hundred thousandths (0.00002) of a curie of tritium was discharged.

- 2. Invironmental Protection Agency (EPA) Environmental Data. Results from EPA monitoring of the environment around the IMI site were as follows:
 - The EPA Kr-85 samples experienced a shipping delay; results were not available. Area Kr-85 concentrations will be reported in a future 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 November 18, 1981, through December 1, 1981.
- 3. MRC Environmentel Data. Results from MRC 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:

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

MP-294 November 18, 1981 - November 24, 1981 <9.2 E-14 <9.2 E-14

- 4. I censee Radicactive Material and Radwaste Shipments.
 - -- On Monday, November 23, 1981, four Unit 1 liners of solidified evaporator bottoms were shipped to Chem Nuclear Systems Inc., Barnwell, South Carolina.
 - -- On Wennesday, November 25, 1981, 50 drums of contaminated laundry were shipped to Tri-State Industrial Laundry, Utica, here for
 - (EPICOR 11 liner k-3) was shipped to U.L. Ecology, Hanford, Washington.
 - used at Unit 1 was shipped back to Mittman radwaste mixing head used at Unit 1 was shipped back to Mittman Kuclear Development Corporation, Columbia, Maryland.
 - -- On Wednesday, December 2, 1981, a Unit 2 december design liner (EPICOR II liner F-13) was shipped to U.S. Elology, Hanford, Washington.
 - on Thursday, December 3, 1981, ... Unit 1 1 mers of solidified evaporator bottoms were shipped U.S. Ecol. . Hanford, Washington.

Major Activities

- 1. Submerged Demineralizer System (SDS). Processing of batch number 11 was completed on November 28, 1981. During November 29, 1981, to December 1, 1981, approximately 50,000 gallons of reactor coolant bleed tank water were transferred to the SDS feed tanks in the fuel handling huilding. Processing of batch number 12 commenced on December 2, 1981. To date, approximately 295,000 gallons of reactor building sump water bave been transferred from the reactor building sump and processed. Transfers of reactor building sump water is expected to continue following the processing of two batches (12 and 13) of reactor coolant bleed tank water. SDS performance parameters for batch 11 are attached.
- 2. EPICOP 11 Processing of SDS effluent through the EPICOP 11 Tratem continued this week. Approximately 285,000 gallons of reactor building sump water have been polished. Recent performance parameters for EFICOP 11 are attached.
- Reactor Builder Entries. Reactor building (RB) entry number 3
 was complete ton Thursday, December 3, 1981. This was the month
 untry in authorized group decontamination experiment.

 during the authorized dinstallation of components on the
 complete decontamination experiment. The
 complete decontamination expects has flush water
 will be introduced into the RB until mid January. To date, based
 on desimilarity. It from rem have been expended during the RB entries
 in upport of the crust decontamination experiment. During the 16
 only named to the accontamination experiment, a total of approximately
 in the Fb.

Future Meetings

The NRC's Advisory Panel for the Decontamination of TMI Unit 2 is scheduled to meet on December 10, 1981, from 7:00 to 10:00 PM in Lancaster at 208 North Duke Street. Additional meetings are presently scheduled for January 13 and January 28, 1982, at the Holiday Inn in Harrisburg.

ATTACHMENT

LUS Performance for Barch Number 11

Radionuclide	Average Influent (uc/ml)	Average Efficient (uz/ml)	Average DF
Centum 107	1.0 × 10 ²	7.2 x 10-4	1.4 x 10 ⁵
Strontium 90	4.7	9.2 x 10-3	5.1 x 102
<u> 1716</u>	porform 1 for 1	React y Bull don	Suma Water
Redt was 100	1: 0 2 1 t 1	(+ t	Average Se
Cesiso 137	5 x 10-4	2.4 × 10-7	3.5 : 103
Streetjing 20.	9.3 - 10-3	1.1 × 10-5	S. S. 8 11.2