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NRC/TMI-81-061

MEMORANDUM FOR:

Harold R. Denton, Director

Office of Nuclear Reactor Regulation

Bernard J. Snyder, Program Director

TMI Program Office

FROM:

Lake II. 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 25-31, 1981. Hajor items included in this report are:

- -- Liquid Effluent Releases
- -- : : RC and EPA Environmental Data
- -- Radioactive Material and Radwaste Shipments
- -- Submerged Demineralizer System Status
- -- EPICOR II
- -- Reactor Building Entries/Decontamination Experiment
- -- Public Meetings

Original signed by Lake H. Barrett

Lake H. Barrett Deputy Program Director TMI Program Office

inclosure: As stated



November 2, 1981

cc w/encl: 7.00 DUC Office Directors Commissioner's Technical Assistants War Division Directors MER A/D's Regional Directors IE Division Directors TAS FIS TMI Program Office Staff (15) 11115 EPA BOE Projects Br. #2 Chief, DRPI, RI Skil Chief, 21 Public Affairs, Al State Liaison, RI

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#### 10 % of October 25-31, 1981

Ping Status

Torr Finling Mode: Heat transfer from the reactor coolant system (RES) loops to reactor building ambient.

Available fore Choling Modes: Occay hoat removal systems. long term cooling "B" (once through steam generator-B).

MCS Pressure Control Mode: Standby pressure control (SPC) system.

Pictup Pressure Control Modes: Mini decay heat removal (MDAR) system.

Decay heat removal (DHR) system.

Pajor Parameters (as of 0500, Actober 30, 1981) (approximate values)

Average lacoce Thermocouples: 114°F

Virisum Incore Thermocouple: 143°F

HES toop to worstures:

	Λ	В
Hat Leg	108°F	11105
Sold leg (1)	69°F	71.5
(2)	10 F	70"F

HCS Finstore: 76 psig

Seastor Building: Temperature: 70 F

Water level: {levation 288.9 ft. (6.4 ft. from fluor)

via princtration 401 manometer

Pressure: -0.2 psig Concentration: 4.4 x 10-5 uCi/cc kr-85

(Sample taken 10/25/81)

### Afficient and Invironmental (Radiological) Information

1. Angula effluents from the IMI site released to the Sunguebanna from after processing, were made within the regulatory limits and in accordance with IMEC requirements and City of Immusion Agreement lated Televice 27, 1230.

Turning the period in tober 23, 1981, through October 29, 1981, the either att contained no detectable indimentivity at the discharge paint and individual influent sources, which originated within Brit 2 at area on between table reductivity.

- The France and Protection Agency (FPA) Invironmental Data. The FPA annualized and July 6, 1981, that, due to a new shipping procedure for Kr-85 samples to the laboratory, the results for the Fr-85 environmental monitoring stations around IMI will not always be available in a weekly basis. The NRC will report these results is they become available.
  - -- To radiation above normally occurring background levels was detected in any of the samples collected from the EPA's air and gama rate metworks during the period from October 21, 1981, through October 29, 1981.
- WRC Environ ental Data. Pesults from MRC munitoring of the environment around the IRI site were as follows:
  - -- The following are the NRC air sample analytical results for the unsite continuous air sampler:

Copie Porind

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

HP-291 October 21, 1981 - October 28, 1981 - 48.2 E-14 -8.2 E-14

- . I lyange Padinactive Material and Radwaste Shipmonts.
  - on Minday, October 76, 1981, a 40 ml Unit 2 macter coolant morple was sent to Bubcock and Wilcox (REW), Lynchburg, Virginia.
  - -- On Manday, October 26, 1981, a drum containing Unit 2 core flood tank prossure and level transmitters was shipped to EGAG Idaho inc., Idaho falls, Idaho.
  - On Monday, October 26, 1981, a dropp containing pressure switches, flow transmitters, and paint chips from the Unit 2 reactor building was shipped to 1556 flabo, Itabo Falls, Idabo.
  - On Tuesday, Guinber 27, 1981, ten drams containing Unit 1 compacted waste and four metal boxes containing non-compacted waste were sent to Chem Nuclear System: Inc., Barnwell, South Firstina.
  - on In try, 6 taker 27. 1981, two I little EPICGE effluent a place and two I little CC-I-2 complex were sent from Unit 2 to the State of Maryland.
  - in the day, A toper 21, 198, the Shit I coldified evicorator the many of the Shit is Switch inc., Samuell, "art Fredman."

- -- On Medicaday, October 28, 1981, an il COR 11 dewatered resin liner (F-6) was shipped to U.S. Ecology, Richland, Washington.
- -- On Thursday, October 29, 1981, an EPICOR II dewatered resin liner (F-7) was shipped to U.S. Ecology, Richland, Hashington.

#### Major Activities

- 1. Submerged Demineralizer System (SDS). Processing of batch number 8 continued through the reporting period. Processing was interrupted for approximately one day when sample analysis showed greater than expected Sr-30 concentrations in the SDS process system effluent, but the problem was traced to a sample analysis problem. The problem was corrected, the actual Sr-30 concentrations were verified to be within the expected range, and the SDS was restarted. The total appoint of water transferred from the reactor building sump as of 0 toher 29, 1981, was approximately 165,000 gallons. The total mount of reactor building sump water processed through the SDS system as of October 29, 1981, was approximately 145,000 gallons. The SDS system as of October 29, 1981, was approximately 145,000 gallons.
- 2. EPICOR II. Processing of the SDS effluent through the EPICOR II system continued this week. As of October 29, 1981, approximately 130,000 gallons of reactor building sump water had been polished. Oner F-7 was shipped to Richland, Washington for disposal at a conserval burial facility. Pocent performance parameters for EPICOR II are attached.
- 3. Fractor Building Entries. The first two reactor building (RB) natures (entries 17 and 18) in support of the gross decontamination experiment were completed during the last week in October. The objective of these entries was to thoroughly characterize the RB contamination prior to decontamination with water sprays. One of the two entries scheduled during the first week in November was uncolled in order to give the entry groups more time to propare for the work inside the RB. The next entry is now scheduled for investage, November 5, 1981.

The talks employed during the two entries this week included the walk our employes, teach relieval, and go as colliderated as a survey was instituted on the 405° elevation to the fresh loss, 100 oxilons of most rationage at weittings in the acceptible areas of the first loss, 100 excludes and the first loss, 100 excludes and the first loss, 100 excludes and the first loss and the first loss

#### Future Montings

- 1. The NRC's Advisory Panel for the Decontamination of Three Hile Island Unit 2 will meet Rovember 16, 1981, from 7:00 p.m. to 10:00 p.m. in the Hunicipal Building, 400 South 8th Street, Lebanon. At the meeting, the panel plans to discuss the current status of cleanup activities at Three Mile Island. The meeting is open to the public.
- 2. On Saturday, November 14, 1981, at 8:00 p.m., take Barrett will participate in a panel discussion at the Elizabethtown Public Library on the government's response to the IMI accident.

### ATTACHMENT

## Shis Perfor mee for Batch Number 7 - October 10, 1981 to October 18, 1981

Radionuclide	Average Influent (uc/ml)	Average Effluent (uc/ml)	Average DF
Cusium 137	1 x 102	9.1 x 10-4	1.1 × 10 <sup>5</sup>
Strontion 90	3.8	1.6 x 10-2	2.4 x 102

# EPICOR II Performance - October 13, 1981 to October 20, 1981

Padiamuelide	Average Influent (uc/ml)	Asserted Liftment (uc/ml)	Average DF
Costum 137	1 x 10-3	5.7 x 10-7	1.8 x 103
Struntium 90	1.2 x 10-2	8.7 x 10-6	1.4 x 10 <sup>3</sup>