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TMI SITE r/f
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NRC POR
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Site Operations File

November 9, 1981 NRC/THI-81-062

MEMORANDUM FOR:

Herold R. Denton, Director

Office of Nuclear Amector Regulation

Bernard J. Snyder, Program Director

INI Program Office

FROM:

Lake H. Barrett, Deputy Progress Ofrector

INI Program Office

SARCT

IRC THE PROGRAM OFFICE WEEKLY STATUS REPORT

inclosed is the states report for the period of November 1-7, 1981. As for items included in this report are:

.. Liquid [ffluent Releases

. WRC and EPA Environmental Data

-- Radioactive Material and Radwaste Shipments

- Submerged Demineralizer System Status

-- EFICOR II

Reactor Building Entries

.. Interia Staging Module Status

. Public Meetings

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Eputy Program Director
Ptl Program Office

inclosure As stated



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#### NRC IMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of November 1-7, 1981

Plant Status

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

Available fore Cooling Modes: Decay heat removal systems. long term cooling 'B' (once through steam generator. 8).

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

Backup Pressure Control Modes: Mini de ay heat removal (RDHR) system. Cocay heat removal (DAR) system

Hajor Parameters (as of 0500, Roycober 6, 1981) (approximate values) Average Incore Thermocouples: 113" Marine lacore Dermocouple

ICS loop !emperatures:

	A	
mot Leg	107 01	110°F
6014 (eq (1)	69"	72.4
	69.1	69.1

\$65 Presidente 96 psig

to a ter fatifing impression 64 - 5

> [levation 188.4 ft. (5.9 ft. from floor) Mater level

ela prostration to moster

Pressure: -0.15 psig Concentration: 0.6 a 10-6 oC1/cc cr-85 (Semple taken 11/4/81)

(fillment and instrumental (Badiological) Information

tivits officents from the PNI site released to the Suspendence tions after processing, were note within the regulatory limits and to a cartains with Mil regularments and City of Lancaster Agreement ditel francisco 22, 1980

through the general Schooler 10, 1981, through Rovember 6, 1981, the and many contained to detectable redirectivity at the discharge point and individual officent sources which prigingled within this ? contained on beingtable carbactionts

- ?. Invirunmental Protection Agency (EPA) Environmental Data. Results from EPA manitoring of the environment around the TMI site were as follows:
  - environmental monitoring stations and reported the following results:

location	October 9 - October 23, 1981 (pC1/m <sup>3</sup> )	
Coldsboro	24	
Observation Center	26	
Hiddletown	30	
Yorkhaven	30	

All of the above levels of Kr-85 are considered to be background levels.

- The 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. 28, 1981, through Movember 5, 1981.
- ARC Invironmental Data. Results from NRC monitoring of the environment around the THI site were as follows:
  - The following are the MRC air sample analytical results for the onsite continuous air sampler:

Sample	reriod	I-131 (uCi/cc)	
HP-292	October 28, 1981 - November 4, 1981	< 8.6 E-14	48.6 E-14

- 4. licensee Radioactive Material and Radwaste Shipments.
  - -- On Wednesday, November 4, 1981, an EPICOR II dewatered resinliner (F-8) was shipped to U.S. Ecology, Richland, Washington,
  - On Wednesday, November 4, 1981, 20 metal containers (boxes) of Unit I LSA noncompacted waste were shipped to U.S. Ecology, Fichla d. Washington.
  - on Thursday, November 5, 1981, 50 drums containing Unit 2 contaminated laundry were shipped to Tri-State Industrial laundry Inc., Utica, New York.
  - -- On Thursday, November 5, 1981, a one liter, Unit 1 NECST (waste evaporator condensate storage tank) composite sample was mailed to Teledyne Isotopes, Westwood, New Jersey.

- on Friday, November 6, 1981, one EPICOR II dewatered resintiner (liner K-2) was shipped to U.S. Ecology, Richland, Washington.
- -- On Friday, November 6, 1981, one EPICOR II dewatered resin lirer (liner F-9) was shipped to U.S. Ecology, Richland, Washington.
- -- On Friday, November 6, 1981, 35 drums and seven metal boxes containing Unit 2 compacted and noncompacted waste, and one EPICOR II dewatered resin liner (liner 2K-1) were shipped to U.S. Ecology, Richland, Washington.

# Major Activities.

Submerged Demineralizer System (SDS). Processing of batch number 8 was completed on October 31, 1981. During October 31, - November 1, 1981, approximately 40,000 gallons of reactor building sump water were transferred to the SDS feed tanks in the fuel hardling building. This transfer brings the amount of water transferred from the reactor building sump to a total of approximately 205,000 gallons. Processing of batch number 9 commenced on November 2, 1981. This batch includes the above 40,000 gallons of water transferred and approximately 7,000 gallons of water from a reactor coolant bleed tank. As of November 5, 1981, approximately 180,000 gallons of reactor building sump water had been processed.

following processing of batch 9, the licensee has scheduled a short outage period (less than one week) to replace ion exchange vessels and perform minor maintenance on system valves to increase flow through the pool water cleanup system. SDS performance parameters for batch 8 are attached.

- 2. EPIGOR II. Processing of SDS affluent through the EPICOR II system continued this week. As of November 5, 1981, approximately 170,000 gallons of reactor building sump water had been polished. Liner: F-8 was shipped on November 4, 1981 to a commercial burial facility near Richland. Washington for disposal. Recent performance parameters for EPICOR II are attached.
- 3. Reactor Building Entries. The third reactor building (RB) entry (entry 19) in support of the gross decontamination experiment was completed on Thursday, November 5, 1981. During the first three entries, housekeeping and trash removal were the most time consuming tasks in the RB. Surveys in accessible areas of the RB have not detected any radiological changes which could be attributed to the transfer of 205,000 gallons of water from the RB basement to the SDS.

Three of the four scheduled gross decontamination experiment entries have been completed. However, the schedule for specific tasks has fallen behind in several areas. Delays in work to install the high pressure water hose, the power lift, new radio antennas, and electrical power for support equipment appear to be the most significant. The impact of the existing delays on the overall decontamination experiment schedule has not been assessed. The decontamination experiment was originally scheduled to be completed in December 1981.

Interim Staging Module Status. Two interim staging modules were constructed on site to store spent EPICOR liners prior to shipment off site. Each module contains 60 storage cells. At one time, the modules contained all the spent resins which were generated by the modules contained all the spent resins which were generated by the modules contained all the spent resins which were generated by the modules contained all the spent resins which were generated by the modules commercial and an applicable for liners which qualified for disposal at commercial all the above EPICOR liners which qualified for disposal at commercial and are radioactive burial facilities have been shipped off site. Forty-nine radioactive burial facilities have been shipped off site. Forty-nine and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commercial burial criteria and are EPICOR II prefilters do not meet commerci

Periodically, the interim staging modules are used for temporary staging of Unit 1 waste and EPICOR II polishing resins which are used to process SDS effluent. The Unit 1 waste and the EPICOR II used to process SDS effluent. The Unit 1 waste and are routinely polishing resins meet commercial burial criteria and are routinely shipped off site. The interim staging module sump is sampled shipped off site. The interim staging module sump is sampled shipped off site. The interim staging module sump is sampled shipped off site. The interim staging module sump is sampled trace quantities of radioactive cesium and tritium have been detected trace quantities of radioactive cesium and tritium have been detected in the sump, the quantities of radioisotopes have not shown any in the sump, the quantities of radioisotopes have not shown any in the sump, the quantities of radioactivity significantly.

## Meetings Held

A meeting was held on November 3, 1981, by 8. Snyder with Maryland State Delegate Catherine Riley to brief her on TMI-2 cleanup progress and future plans. Delegate Riley represents the area of Maryland which includes the Susquehanna River and the head of the Cheasapeake Bay. She has had a continuing interest in TMI-2, including active participation in NRC public meetings held in Maryland on the Programmatic Environmental Impact Statement. In addition to a discussion of the current status of TMI-2 cleanup activities. Delegate Riley was briefed on future NRC studies for further investigation of alternatives for disposition of processed accident water and assessments of potential socio-economic impacts associated with each alternative. Planned State of Maryland studies of socio-economic impacts of processed accident water disposition were also discussed.

#### Future Meetings

- On friday, November 13, 1981, take Barrett will be meeting with local mothers to discuss the decontamination experiments and other related IMI-2 issues.
- 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.
- 3. The NRC's Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet November 16, 1981, from 7:00 p.m. to 10:00 p.m. in the Municipal Building, 400 South 8th Street, Lebanon. At the meeting, the panel plans to discuss cleanup financial problems and the current status of cleanup activities at Three Mile Island, The meeting is open to the public.

## ATTACHMENT

# SDS Performance for Batch Number 8 - October 23, 1981 to October 31, 1981

Radionuclide	Average Influent	Average Effluent	.tverage DF
Cesium 137	(uc/ml)	(uc/ml) 5.9 x 10-4	1.7 x 10 <sup>5</sup>
Struntium 90	4.2	8.7 x 10-3	4.8 × 102

# LPICOR II Performance for Reactor Building Sump Water October 21, 1981 to November 4, 1981

Radionuc 11de	Average Influent (uc/ml)	Average Effluent (uc/ml)	Average OF
Cestum 137	7.4 x 10-4	4.5 x 10 <sup>-7</sup>	1.6 × 10 <sup>3</sup>
Strontium 90	8.9 x 10-3	8.3 x 1J-6	$1.1 \times 10^{3}$