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TMI SITE r/f  
CENTRAL FILE  
NRC PDR  
LOCAL PDR  
Site Operations  
File

November 8, 1982  
NRC/TMI-82-066

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 October 31 - November 6, 1982.  
Major items included in this report are:

- Liquid Effluents
- EPA and NRC Environmental Data
- Radioactive Material and Radwaste Shipments
- Submerged Demineralizer System Status
- EPICOR II Status
- Reactor Building Entries
- SDS Vessel Disposal Preparations
- EPICOR II Prefilter Status
- Public Meetings

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Lake H. Barrett  
Deputy Program Director  
TMI Program Office

Enclosure: As stated

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Harold R. Denton  
Bernard J. Snyder

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November 8, 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  
RI Division Directors  
Public Affairs, RI  
State Liaison, RI

OFFICE	TMIPQ <i>Info</i>	TMIPQ <i>Info</i>	TMIPQ <i>Info</i>	TMIPQ <i>Info</i>	TMIPQ <i>Info</i>	TMIPQ <i>Info</i>
SURNAME	LGage:js	JWgebe	BO'Neil	AFagano	RBellamy	LBarrett
DATE	11/8/82	11/8/82	11/8/82	11/8/82	11/8/82	11/8/82

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

October 31, 1982 - November 6, 1982

Plant Status

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

Available Core Cooling Modes: Mini Decay Heat Removal (MDHR) system.

RCS Pressure Control Mode: RCS is vented to the reactor building.

Major Parameters (as of 0600, November 5, 1982) (approximate values)

Average Incore Thermocouples\*: 109°F

Maximum Incore Thermocouple\*: 130°F

RCS Loop Temperatures:

	A	B
Hot Leg**	87°F	86°F
Cold Leg (1)	71°F	71°F
(2)	72°F	72°F

Pressure: The reactor coolant system is vented to the reactor building.

Reactor Building: Temperature: 68°F  
Pressure: -0.25 psig  
Airborne Radionuclide Concentrations:

1.3 E-6 uCi/cc H<sup>3</sup>  
(sample taken 11/3/82)

2.2 E-9 uCi/cc particulates  
(sample taken 11/5/82)

1. 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.

During the period October 26, 1982, through November 4, 1982, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources, which originated within Unit 2, contained no detectable radioactivity.

\*Uncertainties exist as to the exact location and accuracy of these readings.  
\*\*The primary water level is below the hot leg temperature sensors.

## 2. Environmental Protection Agency (EPA) Environmental Data

- The EPA Middletown Office has not received the environmental Kr-85 results for the samples which were taken after October 8, 1982 from the EPA's Counting Laboratory at Las Vegas, Nevada. These results will be included in a subsequent 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 October 27, 1982 through November 4, 1982.

## 3. NRC Environmental Data

Results from NRC 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:

<u>Sample</u>	<u>Period</u>	<u>I-131 (uCi/cc)</u>	<u>Cs-137 (uCi/cc)</u>
HP-342	October 27 - November 3, 1982	<6.7 E-14	<6.7 E-14

## 4. Licensee Radioactive Material and Radwaste Shipments

- On November 2, 1982, one Unit 2 EPICOR II prefilter (PF-45) was shipped to Idaho National Engineering Laboratory, Scoville, Idaho.
- On November 3, 1982, one Unit 2 EPICOR II prefilter (PF-46) was shipped to Idaho National Engineering Laboratory, Scoville, Idaho.
- On November 5, 1982, 86 drums containing contaminated laundry from Units 1 and 2 were shipped to Interstate Uniform Services, New Kensington, Pennsylvania.

## Major Activities

1. Submerged Demineralizer System (SDS). SDS is presently in a standby status. During the past week 44,000 gallons of contaminated water were transferred from the reactor building sump to the SDS feed tanks. The SDS is scheduled to commence processing this water next week. Approximately 70,000 gallons of previously processed water were added to the RB sump as a result of the ongoing RB decontamination activities. RB decontamination is scheduled to continue for the next several months and the water accumulating in the RB sump as a result of this operation will be periodically processed by SDS.
2. EPICOR II. The EPICOR II system is presently in standby status. No water is ready to be processed.

3. Reactor Building Entries. Three reactor building entries were conducted during the past week. Polar crane refurbishment was the predominant in-containment activity. The main electrical power line was attached to the polar crane and functional checks of control circuits were started. Decontamination of the reactor building is continuing in parallel with the polar crane refurbishment.

Polar crane refurbishment and testing is scheduled to continue for the next several months. The crane will be refurbished to the extent necessary to disassemble the reactor. The crane was designed as a 500 ton capacity crane. Following the refurbishment, the crane will be requalified to 170 tons (the reactor vessel head weighs approximately 160 tons). Crane mobility and control will be limited to the functions necessary to remove the missile shields, the reactor vessel head, and the plenum assembly. The crane refurbishment schedule is based on supporting reactor vessel head removal in mid 1983.

Three reactor building entries are scheduled next week (week of November 7, 1982), to continue polar crane refurbishment.

4. SDS Vessel Disposal Preparations. A functional test began this week on the SDS liner recombiner and vacuum outgassing system (LRVOS). This testing, which is being conducted on a non-radioactive SDS liner, is an operational demonstration of the specially designed vacuum drying and catalytic recombiner loading system that was provided by the DOE. The LRVOS will be used in the shipping preparation of spent SDS liners to assure non-combustible gas mixtures will be maintained during SDS shipments and storage at the DOE facility in Richland, Washington. The LRVOS provides remote handling capabilities with the SDS vessels maintained at the normal operating depth of water in the Unit 2 spent fuel pool. The system operations features includes: (1) removal of approximately 99% of the free water in the SDS liners, (2) insertion of catalytic recombiner pellets into the liner vent port, (3) gas inerting of the liner with nitrogen or argon, and (4) monitoring and sampling the SDS liner to assure sufficient catalyst exists to recombine the hydrogen and oxygen produced by radiolysis of the water remaining in the liner. After the completion of the non-radioactive functional test, the licensee plans to perform a full scale demonstration on an actual spent SDS vessel which contains approximately 53,000 curies of radioactivity. This acceptance testing is tentatively scheduled in late November 1982 and will be closely monitored by the TMIPC staff.
5. EPICOR II Prefilter Status. Two EPICOR II prefilter shipments were made this week from TMI to the Idaho National Engineering Laboratory (INEL): PF-45 in the CNS-8-120 cask (11/2/82) and PF-46 in the HN-200 cask (11/3/82). In both shipments the EPICOR liner and shipping cask cavity were inerted with nitrogen gas. The PF liner hydrogen gas composition will be maintained at less than 1.0% during the handling and shipping periods. Currently, eight in a group of 49 EPICOR II prefilters have been shipped from TMI. The next prefilter shipment, PF-47, is scheduled for the week of November 15, 1982.

### Past Meetings

1. On November 4, 1982, Lake H. Barrett spoke to the Central Pennsylvania Chapter of American Society for Mechanical Engineers in Williamsport, Pennsylvania, on TMI and related nuclear issues.

### Future Meetings

1. On November 8, 1982, Dr. Bernard J. Snyder will speak to a subcommittee of the National Association of Regulatory Utility Commissioners in Boston, Massachusetts.
2. On November 9, 1982, the NRC Commissioners will hold two public meetings to discuss the potential restart of TMI Unit 1. The first meeting will hear oral presentations from the parties involved in the formal TMI Unit 1 restart proceedings. This meeting will be opened for public attendance (not public participation) and will be held from 2:00 to 5:00 PM at the William Penn Museum Auditorium, Third and North Streets, Harrisburg, Pennsylvania.

The second meeting is scheduled in the evening to hear the views of concerned citizens who are not parties to the formal restart proceedings and will be held from 7:30 to 10:00 PM at the Central Dauphin High School, 4600 Locust Lane, Harrisburg, Pennsylvania.

3. On November 12, 1982, Lake H. Barrett will meet with the Concerned Mothers of Middletown to discuss TMI related issues.
4. On November 16, 1982, Dr. Bernard J. Snyder will present a paper on the regulatory perspective on TMI-2 cleanup at the American Nuclear Society meeting in Washington, DC.
5. On November 17, 1982, the Advisory Panel for the decontamination of TMI Unit 2 will hold a meeting --open for public observation-- to discuss the current status of cleanup efforts and the disposition of processed water. The meeting will take place at the Holiday Inn, 23 South Second Street, Harrisburg, Pennsylvania, from 7:00 to 10:00 PM.
6. On November 17, 1982, Dr. Bernard J. Snyder will participate in a panel discussion at Rutgers University, New Brunswick, New Jersey on nuclear wastes at a conference on the Disposal of High Level Radioactive Wastes. The conference is being organized by the League of Women Voters of New Jersey and the Coordinating Council on Radiation Studies of Rutgers University.
7. On December 1, 1982, Lake H. Barrett will present a paper on TMI to the New England Chapter of the Health Physics Society in Boston, Massachusetts.
8. On December 5, 1982, Lake H. Barrett will meet with Friends and Family of TMI to discuss various TMI-2 issues.