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July 13, 1981  
 NRC/TMI-81-039



MEMORANDUM FOR: Harold R. Denton, Director,  
 Office of Nuclear Reactor Regulation  
 Bernard J. Snyder, Program Director,  
 TMI Program Office

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

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of July 5 - 11, 1981.

ORIGINAL SIGNED BY:  
 A. N. Fasano for  
 Lake H. Barrett  
 Acting Deputy Program Director  
 TMI Program Office

Enclosure: As stated

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SURNAME	Galman/Imp	RConte	MShanbaky	AFasano	RBellamy	LBarrett
DATE	7/13/81	7/13/81	7/13/81	7/13/81	7/13/81	7/13/81

# NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of July 5 - 11, 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 0500, July 10, 1981) (approximate values)

Average Incore Thermocouples: 120°F  
Maximum Incore Thermocouple: 145°F

### RCS Loop Temperatures:

	A	B
Hot Leg	119°F	122°F
Cold Leg (1)	72°F	74°F
(2)	73°F	74°F

RCS Pressure: 96 psig

Reactor Building: Temperature: 77°F  
Water level: Elevation 290.9 ft. (8.4 ft. from floor)  
via penetration 401 manometer  
Pressure: -0.3 psig  
Concentration:  $1.2 \times 10^{-5}$  uCi/ml Kr-85 (Sample taken 7/1/81)

## 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 July 6, 1981, through July 10, 1981, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources which originated within Unit 2 contained no detectable radioactivity.

2. Airborne effluents from the TMI site released to the environment, after processing, were made within the regulatory limits and in accordance with NRC requirements.

During the reporting period May 1-31, 1981, the licensee reported the following gaseous releases:

	<u>Curies</u>
Noble Gases	42.0
Particulates	0.0000013
Tritium	1.7

The above releases represent a small fraction of the allowable regulatory limits. The noble gas (Kr-85) release for the month of May, although well within limits and insignificant for environmental considerations, was higher than anticipated. A portion of the release can be attributed to Reactor Building (RB) purges, and the licensee is currently examining the potential origin of the remainder. Airborne effluent information will continue to be provided on a monthly basis.

3. 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 July 2, 1981, through July 9, 1981.

4. 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</u> <u>(uCi/cc)</u>	<u>Cs-137</u> <u>(uCi/cc)</u>
HP-275	July 2, 1981 - July 8, 1981	<9.9 E-14	<9.9 E-14

Environmental TLD measurements for the period April 30 - June 3, 1981, around TMI indicated gamma radiation to be at the natural background levels. Fifty-nine TLD's registered doses ranging from 0.1 mR/day to 0.3 mR/day. The average dose was 0.2 mR/day. These dose rates are consistent with natural background radiation in the TMI area.

5. Licensee Radioactive Material and Radwaste Shipments

- On Monday, July 7, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Wednesday, July 8, 1981, one cask containing 17 drums of Unit 2 LSA compacted and noncompact waste was shipped to U.S. Ecology, Richland, Washington. (This shipment was previously reported as having occurred on Wednesday, July 1, 1981; however, due to vehicle weight restrictions, it was delayed.)
- On Thursday, July 9, 1981, 55 drums containing Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.
- On Friday, July 10, 1981, one drum containing five smears of control rod drive mechanisms from Unit 2 was shipped to Science Applications, Inc., Rockville, Maryland.

Major Activities

Submerged Demineralizer System (SDS). Processing of the first batch of Reactor Coolant Bleed Tank (RCBT) water through the SDS commenced July 10, 1981. The water is being processed through two zeolite beds composed of two parts cesium -- specific zeolite (designated IE-96) to one part strontium -- specific (designated as Linde A) zeolite. The processed water is being returned to the RCBT's for sampling to determine if additional processing is necessary and to determine if the water will be reused as flush water or placed in storage. As of 12:00 midnight, July 11, 1981, 1,800 gallons have been processed.

Meeting Attended

On Thursday, July 9, 1981, the TMI Citizens Advisory Panel for the Decontamination of TMI Unit 2 held a public meeting in the Holiday Inn, 23 South Second Street, Harrisburg. The panel received comments from the audience which included opinions on various solutions to the Unit 2 cleanup financial problems, questions on hydrogen generation, questions on Unit 1 reactor vessel embrittlement, emergency planning, notification of meetings, and requests for additional non-NRC and non-GPU expert discussion of issues. GPU and NRC representatives responded to the panel's and the public's questions on ultimate disposition of TMI cleanup wastes and the general status of the cleanup program.