NRC PDR

MAR 31 1980

NRC/TMI-80-053

MEMORANDUM FOR: H. R. Denton, Director,
Office of Nuclear Reactor Regulation

B. J. Snyder, Program Manager,
TMI Program Office

FROM: J. T. Collins, Deputy Program Manager,
TMI Program Office

SUBJECT: NRC/TMI WEEKLY STATUS REPORT

Enclosed is the status report for the week of March 22-28, 1980.

Original signed by
John T. Collins

John T. Collins
Deputy Program Manager
TMI Program Office

Enclosure: As stated

cc: EDO
OCG
Office Directors
Commissioner's Technical Assistants
NRR Division Directors
NRR A/D's
Regional Directors
IE Division Directors
XOOS
ACRS
G. Sanborn
EPA
TMI Program Staff

# TMI WEEKLY STATUS REPORT

Week of: March 22-28, 1980

## Plant Status

Core Cooling Mode: Cyclic Natural Circulation in the "A" Reactor Coolant System (RCS) Loop via the "A" Once Through Steam Generator (OTSG), Steaming to the Main Condenser, and RCS Loop-B Cyclic Natural Circulation to Reactor Building ambient.

Available Core Cooling Modes: OTSG "B" to the Main Condenser; Long Term Cooling "B" (OTSG-B); Decay Heat Removal.

RCS Pressure Control Mode: Standby Pressure Control (SPC) System.

Backup Pressure Control Mode: Makeup system in conjunction with letdown flow (RCP seal injection isolated due to suspected leaks in system).

Major Parameters (As of 0400, March 28, 1980) (approximate values)
Average Incore Thermocouples: 143°F
Maximum Incore Thermocouple: 187°F

RCS Loop Temperatures:

| | A | B |
|---|---|---|
| Hot Leg | 151°F | 154°F |
| Cold Leg (1) | 89°F | 108°F |
| (2) | 85°F | 127°F |

(B Loop recovering from "burp")

RCS Pressure: 310 psig (Heise)

Pressurizer Temperature: 350°F (Saturation Pressure 120 psig)

Reactor Building: Temperature: 79°F
Pressure: -.7 psig (Heise)
Water level: Elevation 290.3 ft. (7.8 ft. from floor)

## Environmental & Effluent Information

1. Liquid effluents from TMI-1 released to the Susquehanna River, after processing, were within the limits specified in Technical Specifications.

2. No liquid effluents were discharged from TMI-2.

3. Results from EPA monitoring of the environment around the TMI site were:

   -- EPA environmental stations registered background levels for air and water samples.

   -- Instantaneous direct radiation readings showed no levels above background.

-- No gaseous samples were analyzed since the last report due to the unscheduled analysis reported at the end of last week.

-- Porter-Gertz, consultants to Met-Ed on effluent and environmental monitoring programs, reported the following data to Met-Ed in a letter dated March 21, 1980.

Effluent Releases: (Noble Gases)

For January 1980 the release rate was $1 \times 10^{-5}$ Ci/sec. This compares to the allowable quarterly release rate of $7.2 \times 10^{-3}$ Ci/sec permitted by the existing plant Technical Specifications. Total curies of noble gases released during January 1980 amount to 80 curies as compared to 75 curies for the month of December 1979. The principal isotope was Kr-85.

Major Activities (Past and Present)

1. The makeup pump (No.-1B) continued to run in the recirculation mode with normal makeup and reactor coolant pump (RCP) seal injection isolated. Letdown was unisolated periodically for sampling and for supplemental pressure control (depressurization) purposes. Decontamination efforts continue in the seal injection room for the purpose of locating the source of suspected leakage in the seal injection system. Initial results indicate that the leakage could be coming from an instrument rack in the room. The instrumentation piping was used for individual RCP seal injection flow indication.

   The decontamination evolutions in the seal injection room caused periodic air monitor alarms (as expected) in the auxiliary building throughout the week. As of 7:00 A.M. on March 28, 1980, the licensee reported airborne particulate concentrations in the auxiliary building that range from approximately $5 \times 10^{-10}$ uCi/cc to $2 \times 10^{-9}$ uCi/cc. No identifiable release to the environment was noted by the licensee or the NRC staff during these events.

   This area continues to be under review by the licensee and is being monitored by NRC staff.

2. The EPICOR II outage is proceeding on schedule. It is expected that startup and testing of system modifications will start on April 1, 1980. Operator retraining will start after testing and refitting is completed.

3. On Friday, March 28, 1980, members of the NRC/TMI staff met with licensee representatives to discuss modifications to the Mini-Decay Heat Removal (MDHR) system. Discussed was the staff's concern that the installed filter was not capable of being replaced once it was clogged. As a result of the meeting, the licensee has agreed to modify the existing piping arrangement to accommodate two filters, at least one of which will be capable of being replaced. This modification will cause a delay for an operational MDHR system. The extent of the delay cannot be ascertained until the licensee has had a chance to assess the availability of manpower and materials.

Future Evolutions

The emergency drill scheduled for March 26, 1980, was rescheduled for April 10, 1980, in light of the March 28 anniversary.

Public Affairs

1. On Tuesday, March 25, 1980, Richard Vollmer participated in a town meeting sponsored by WHP, Harrisburg, at the Capitol Campus of the Pennsylvania State University. John Collins also attended this meeting.

2. On Wednesday, March 26, 1980, Gary Sanborn spoke to members of the Lancaster Exchange Club at the Stock Yard Inn, Lancaster.

3. On Wednesday, March 19, 1980, John Collins and Suzanne Isaacs attended a meeting with Secretary Clifford Jones, Department of Environmental Resources and members of his staff to discuss the question of psychological stress that may result if the NRC commissioners approve Met-Ed's request to purge the Unit 2 reactor building.

4. On Wednesday, March 19, 1980, Harold Denton, Richard Vollmer and John Collins met with Govenor Thornburgh and members of his staff to discuss the staff's Environmental Assessment for Decontamination of the Three Mile Island Unit 2 Reactor Building Atmosphere.

5. On Thursday, March 27, 1980, Harold Denton participated in a joint press conference with Pennsylvania's Govenor Thornburgh to discuss the status of Three Mile Island - Unit 2 and the NRC staff's recommendation to vent radioactive krypton gas from the plant's containment building.

6. On Thursday, March 27, 1980, John Collins participated in a panel discussion on TMI at Lebanon Valley College, Lebanon.

7. On Thursday, March 27, 1980, John Collins met with Matt Bills, EPA, to discuss EPA's role in the disemination of daily and weekly environmental data collected around TMI.

8. On Friday, March 28, 1980, John Collins participated in a 2-hour call in program sponsored by WHP-TV and WHP radio.

9. On Friday, March 28, 1980, at 4:00 A.M., a demonstration ("vigil") was conducted by anti-nuclear protesters offsite near the observation center to commemorate the March 28 accident. The licensee reported approximately 120-125 people at 4:00 A.M. with a peak of approximately 150 people at 9:30 A.M. to 10:00 A.M.. This count included approximately 50 media personnel. The gathering also conducted a press conference at 11:00 A.M. Pennsylvania state police were present for crowd/traffic control. The demonstration was peaceful.

10. On Monday, March 31, 1980, John Collins will meet with the Middletown Borough Council to discuss the proposed venting of krypton from the TMI reactor building.