

June 24, 1985
NRC/TMI-85-044

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

Bernard J. Snyder, Program Director
TMI Program Office

FROM: William D. Travers, Deputy Program Director
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
JUNE 17, 1985 - JUNE 23, 1985

1. PLANT STATUS

- The facility remains in long term cold shutdown with the Reactor Coolant System (RCS) vented to the reactor building atmosphere and the reactor vessel head and plenum assembly removed.
- The reactor vessel plenum has been removed from the reactor vessel and placed on its storage stand in the deep end of the fuel transfer canal. A dam has been installed between the deep and shallow ends of the fuel transfer canal. The deep end is filled with water to a depth of about 20 feet (about 5 feet above the top of the plenum).
- The modified internals indexing fixture is installed on the reactor vessel flange and is flooded to elevation 327 feet 6 inches (15 feet above the top of the core region).
- Calculated reactor decay heat is less than 12 kilowatts.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 71°F to 92°F with an average of 81°F. Average cold leg temperature is 56°F.
- The average reactor building temperature is 60°F. The reactor building airborne activity is 4.2 E-8 uCi/cc tritium, and 4.4 E-10 uCi/cc particulate, predominantly cesium 137.

2. WASTE MANAGEMENT

- Submerged Demineralizer System (SDS) completed processing batch S-121 (22,631 gallons) and EPICOR II processed batch 256 (11,003 gallons).
- Total volume processed through SDS to date is 2,898,836 gallons, and the total volume processed through EPICOR II is 2,477,837 gallons.

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3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Water flushes of the contaminated seal return cubicle on the 281' elevation of the Fuel Handling Building were performed.
- Average general area radiation dose rate is 36 mrem per hour on the 347' level of the reactor building and is 160 mrem per hour on the 305' level of the reactor building.

4. ENVIRONMENTAL MONITORING

- EPA sample analysis results show TMI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.
- TMI water samples taken by the US Environmental Protection Agency at the plant discharge to the river consisted of seven daily composite samples taken from June 1, to June 8, 1985. Gamma scans detected no reactor related radioactivity.
- The Lancaster water sample taken at the water works intake and analyzed by the US Environmental Protection Agency consisted of a seven day composite sample taken from June 2, to June 8, 1985. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI Site collected a sample between June 13, and June 19, 1985. No reactor related radioactivity was detected. Analysis showed I-131 and Cs-137 concentrations to be less than the lower limits of detectability.

5. REACTOR BUILDING ACTIVITIES

- Future work in the reactor building will be focused on preparations for the first phase of defueling in September 1985. The near term defueling preparations include installation of a 5-ton service crane over the refueling canal, completion of the Defueling Water Cleanup System and modifications to the auxiliary fuel handling bridge.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the Defueling Water Cleanup System (DWCS) continued. Partial DWCS turnover for processing RCS during early defueling is scheduled to be completed in late August.
- Boration of the processed water storage tank Number 1 is continuing. This tank, which will be used to flood the "A" spent fuel pool during defueling, contains water at a boron concentration of 4,390 ppm.

7. NRC EVALUATIONS IN PROGRESS

- Defueling Water Cleanup System Technical Evaluation (including Revision 6)
- Technical Specification Change Requests numbers 46, 48, and 50

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- Equipment Hatch Removal Safety Evaluation
- Recovery Operations Plan Change numbers 27, 29, and 32
- Fuel Canister Technical Evaluation
- Fuel Handling Senior Reactor Operator Training Program
- Defueling Safety Evaluation

8. PROJECTED SCHEDULE OF FUTURE EVENTS

- Start of Defueling: September 1985

9. PUBLIC MEETING

- On June 20, 1985, The Advisory Panel for the Decontamination of Three Mile Island Unit 2 met with the NRC Commissioners in Washington, DC. Topics of discussion included recent reactor vessel plenum removal, fuel shipping casks, worker radiation protection plan, and the recent GPURC revision to the cleanup schedule. Also discussed were issues of information flow from the NRC to the Advisory Panel and the Advisory Panel's involvement in health studies related to the TMI-2 accident. The NRC staff provided an update on enforcement actions and investigations related to the cleanup.

The next meeting of the Advisory Plan is scheduled for 7:00 PM, July 18, 1985, at the Public Service Building, 201 North Duke Street, Lancaster, PA.

William D. Travers
Deputy Program Director
TMI Program Office

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Harold R. Denton
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