

May 12, 1986  
NRC/TMI-86-048

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

Frank J. Miraglia, Director  
Division of PWR Licensing-B

FROM: William D. Travers, Director  
TMI-2 Cleanup Project Directorate

SUBJECT: NRC TMI-2 CLEANUP PROJECT DIRECTORATE WEEKLY STATUS  
REPORT FOR MAY 5 - 11, 1986

1. DEFUELING

- No core defueling occurred during this week. The number of canisters transferred to the fuel pool remains at 42.
- Efforts to remove the biological contamination from the Reactor Coolant System (RCS) continued. Two batches of borated water treated with hydrogen peroxide were added to the RCS via the Standby Pressure Control System. The licensee established an initial 200 ppm residual concentration of peroxide as a biocide to kill the micro-organisms. Operation of the high pressure pump and hydrolance, and the Temporary Reactor Vessel Water Filtration System continued in parallel with the hydrogen peroxide addition. Approximately 50% of the reactor vessel annular area has been hydrolanced and scrubbed. The RCS water turbidity was 37 NTU as of May 11, 1986. The next step in the treatment program will include the drawing of about 15,000 gallons of water from the RCS to the bleed tanks and replenishment with clean RCS grade water. About four batches will be let down in this manner with the drained water being processed through the Submerged Demineralizer System (SDS) and EPICOR.

2. PLANT STATUS

- The reactor remains in long term cold shutdown, vented to atmosphere. Core cooling is by natural heat loss to ambient building atmosphere. The average incore thermocouple reading is 101°F. The increase is attributed to the heat generated by pressurizing RCS water with the Elliot pump. Water visibility is nearly 2 feet.

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- The airborne radioactivity on the defueling platform is about 7.0 E-7 uCi/cc Tritium and 1.9 E-11 uCi/cc particulates, predominately Cesium-137. The platform is mounted above the modified internals indexing fixture which is mounted on the reactor vessel flange. These provide water coverage of 15½ feet over the core region. This water level is about 5 feet over the top of any debris canisters in the reactor vessel.

3. WASTE MANAGEMENT

- The SDS total processed to date is 3,937,698 gallons.
- EPICOR II is shutdown. EPICOR II total processed to date is 2,891,476 gallons.

4. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (EPA) sample analysis results show that TMI site liquid effluents are in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.
- TMI water samples taken by EPA at the plant discharge (includes TMI-1 and TMI-2) to the river consisted of seven daily composite samples taken from April 20 - 26, 1986. A gamma scan detected no reactor related activity above the lower limit detectability.
- The Lancaster water sample taken at the water works intake and analyzed by EPA consisted of a seven day composited sample taken from April 20 - 26, 1986. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI site collected a sample between May 1 - 8, 1986. No reactor related radioactivity was detected. Analysis showed Iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Scabbling of floor areas on the 281' elevation continued.
- Vacuum cleaning of the 281' elevation continued.

5. PUBLIC MEETING

The Advisory Panel on the Decontamination of TMI-2 will meet with the NRC Commissioners on June 11, 1986 at 11:00 AM. The meeting will be held at the NRC conference room at 1717 H Street, N.W., Washington, DC.

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7. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49, and 51.
- Recovery Operations Plan Change number 31, 33, 35, and 36.
- Core Stratification Safety Evaluation (Revision 3).
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- Canister Handling and Preparation for Shipment Safety Evaluation Report.
- Defueling Canister Technical Evaluation Report, Revision 2.

This past week the NRC approved GPUN's safety evaluation reports for Core Stratification Sample Acquisition (Revision 1) and Modification to Penetration 536.

original signed by  
Curt Cowgill for:  
William D. Travers  
Director  
TMI-2 Cleanup Project Directorate

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Harold R. Denton  
Frank J. Miraglia

4

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HRC/TMI-85-048

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