

June 9, 1986  
 NRC/TMI-86-056

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 JUNE 2 - JUNE 8, 1986

1. DEFUELING

- Core stratification sample acquisition (core boring) training is complete. The drilling rig will be disassembled this week then reassembled in the reactor building. Core boring is expected to start during the week of June 23, 1986.
- Pick and place defueling activities continued. These activities were conducted principally to assure that the core bore drilling locations were ready to commence drilling. The number of canisters transferred to the fuel pool remains at 42.
- The testing of the heavy duty spade bucket tool was inconclusive due to bending of the vertical jaw.
- The Reactor Coolant System (RCS) turbidity was approximately 2 NTU (6 - 8 feet) as of Monday, June 2, 1986.

2. PLANT STATUS

- The reactor remains in long term cold shutdown, vented to the atmosphere. Core cooling is by natural heat loss to ambient building atmosphere. The average incore thermocouple reading is 80°F; reactor vessel water temperature as measured by resistance temperature detectors (RTD's) is 73°F.
- The airborne radioactivity on the defueling platform is about 3 E-7 uCi/cc Tritium and 5 E-11 uCi/cc particulates, predominately Cesium-137 and Strontium-90. The platform is mounted above the modified internals indexing fixture which is mounted over the reactor vessel. These provide about 15 feet of water over the core region and 6 feet over the carousel holding the defueling canisters.

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3. WASTE MANAGEMENT

- EPICOR II remains shutdown. The Submerged Demineralizer System (SDS) started processing the "B" reactor coolant bleed tank on Saturday, June 7, 1986.

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.
- The Lancaster water sample taken at the water works river intake and analyzed by EPA consisted of a seven day composite sample taken May 18 - 24, 1986. A gamma scan detected no reactor related activity.
- TMI water samples taken by EPA at the plant discharge (includes Units 1 and 2) to the river consisted of seven daily composite samples taken from May 18 - 24, 1986. A gamma scan detected a trace amount of Iodine-131 in the May 21 - 22, 1986 sample. While no reactor activity was measured, trace amounts of I-131 were detected in water at both the Unit 1 intake and the site discharge, indicating that the activity is probably not TMI related.
- The EPA analysis of the NRC outdoor air sample for the period May 26 - June 6, 1986 showed that concentrations of Cs-137 and I-131 were below the lower limit of quantitative detectability for the system, i.e., less than 1.1 E-13 microcuries/cc. A trace of I-131 was detected in the sample.
- The unquantifiably small traces of I-131 in both these samples are probably related to the Chernobyl accident.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Water flushing continued in the Westinghouse Valve Room (281' Auxiliary Building) over the past week. This room abuts the annulus and is the location of the mini-decay heat cooling system.
- Assembly of the Desludging system continued.
- The testing program continues on the transfer shield.

6. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49, and 51.
- Recovery Operations Plan Change number 31, 33, 35, and 36.
- Solid Waste Facility Technical Evaluation Report.

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- Reactor Building Sump Criticality Safety Evaluation Report.
- Canister Handling and Preparation for Shipment Safety Evaluation Report.
- Defueling Canister Technical Evaluation Report, Revision 2.

On June 2, 1986, GPUH submitted a request to test three defueling tools over an approximate 2 week period. The tools were a heavy duty tong tool, heavy duty spade bucket, and hydraulic impact chisel. The use of this equipment was previously under HRC staff review as part of the May 15, 1986 defueling SER. The staff approved the use of the three tools on June 4, 1986.

7. PUBLIC MEETING

The Advisory Panel for 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.

**ORIGINAL SIGNED BY,**  
*William D. Travers*

William D. Travers  
Director  
TMI-2 Cleanup Project Directorate

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Harold R. Denton  
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4

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