

April 28, 1986  
NRC/TM-86-042

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 APRIL 21 - April 27, 1986

1. DEFUELING

- No transfers of fuel debris canisters have taken place this period. The total number of canisters transferred to date is 42 versus 44 reported last period. About 16% of the damaged core has been removed.
- Work continues on removal of the biological contamination of the Reactor Coolant System (RCS). The Temporary Reactor Vessel Water Filtration Systems (TRVWFS) has been operating for about one week and has reduced the RCS water turbidity to about 40 NTU. This corresponds to a visibility of 6 - 8 inches in the reactor vessel. The equipment for high pressure pumping and hydro-lancing of the RCS has been installed in the reactor building and is expected to be placed in operation on April 28, 1986.

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 79°F.
- The airborne radioactivity on the defueling platform is about 3.0 E-8 uCi/cc Tritium and 1.0 E-11 uCi/cc predominately Strontium-90. 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 Submerged Demineralizer System (SDS) is shutdown. SDS total processed to date is 3,885,859 gallons.

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- EPICOR II was in temporary shutdown this week. EPICOR II total processed to date is 2,854,371.

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 5 - 12, 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 5 - 12, 1986. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI site collected a sample between April 17 - 23, 1986. No reactor related radioactivity was detected. Analysis showed Iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.
- The TMI outfall sample for March 29 through April 5, 1986 was incorrectly reported as not quantifiable in the last status report. The result was  $3 \text{ pCi/l} \pm 1 \text{ pCi/l}$ , just above the systematic lower limit of detectability of approximately  $2 \text{ pCi/l}$ .

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Scabbling of floor areas on the 281' elevation continued.
- Vacuum cleaning of the 281' elevation continued.
- The reactor building sump filters were changed out this week and vacuum cleaning was done in the filter room.

6. 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.
- 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.
- Penetration 536 Modification Safety Evaluation Report.

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

William D. Travers  
Director

TMI-2 Cleanup Project Directorate

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Harold R. Denton  
Frank J. Miraglia

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April 23, 1986  
NRC/TMI-86-042

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