

May 5, 1986  
NRC/TMI-86-045

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 28 - May 4, 1986

1. DEFUELING

- No transfers of fuel debris canisters have taken place this period. The total number of canisters transferred to date is 42. 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 (TRWFS) continues in operation. The RCS water turbidity is about 43 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. An approximate 30° sector of the reactor vessel annulus has been hydro-lanced.
- Core debris samples were removed from the reactor vessel and are in storage awaiting shipment to the Idaho National Engineering Laboratory (INEL) for analysis.

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 87°F.
- The airborne radioactivity on the defueling platform is about 3.0 E-8 uCi/cc Tritium and 1.8 E-11 uCi/cc 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.

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3. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) is temporarily shutdown from processing batch S-131 from reactor coolant bleed tank "B". SDS total processed to date is 3,923,001 gallons.
- EPICOR II processed batch 280 from SDS; it is in temporary shutdown. EPICOR II total processed to date is 2,869,918.

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 12 - 19, 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 13 - 19, 1986. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI site collected a sample between April 23 - May 1, 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.

6. RADIOACTIVE MATERIALS AND WASTE SHIPMENTS

During April 1986, there were 16 shipments sent from TMI site.

- Sample shipments:
  - Unit 1 April 3, 7, 17, 21 - to Rockville, MD for analysis
  - April 17 - to San Jose, CA for analysis
  - Unit 2 April 18 - to Scoville, ID for analysis.
- Testing Equipment and Valves:
  - Unit 1 April 2, 18 - Valves sent to Huntsville, AL
  - April 22 - Steam generator equipment sent to Apollo, PA.
- Waste:
  - Unit 2 April 2 - EPICOR II dewatered resin liner was sent to Richland, WA.

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- Combined Unit Contaminated Laundry:  
All shipments were sent to Royersford, PA
  - April 4 - 80 drums and 3 boxes
  - April 9 - 104 drums and 5 boxes
  - April 15 - 120 drums and 4 boxes
  - April 18 - 57 drums and 2 boxes
  - April 23 - 108 drums and 2 boxes
  - April 29 - 73 drums and 3 boxes

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.
- 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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