

July 21, 1986  
NRC/TMI-86-071

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 JULY 14 - JULY 20, 1986

1. DEFUELING

- During the report period, the licensee continued core boring to acquire core stratification samples in positions G-12, K-9, D-8, and K-6. Encased stratification samples were removed and placed in defueling canisters for eventual shipment to Idaho National Energy Laboratories. An extended drilling operation was performed in the K-9 position on July 16, 1986 to characterize core debris found on the lower reactor vessel head. Video inspections were made through the access ports left by the drilling operations. The video tapes from these examinations are presently being reviewed and analyzed. The licensee is re-indexing the drilling rig over core position D-4.

2. SHIPMENT

- The first fuel shipping cask left the site by train during this report period. Prior to release, the NRC site staff verified that the shipment was in compliance with NRC and DOT radiological requirements.

3. 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 81°F.
- The airborne radioactivity on the defueling platform is about 5.0 E-7 uCi/cc Tritium and 2.9 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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4. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) began processing batch S-135 from the neutralizer tank.
- EPICOR II completed processing batch 300, 10,668 gallons from the monitor tanks, and batch 301, 1,296 gallons from the Chemical Cleaning Building sump. The system began processing batch 302.
- Total volume processed through SDS to date is 4,084,856 gallons, and the total volume processed EPICOR II to date is 3,031,926 gallons.

5. 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 June 29 - July 5, 1986. A gamma scan detected no activity that could be attributed to TMI-2.
- 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 June 28 - July 7, 1986. A gamma scan detected no activity that could be attributed to TMI-2.
- The EPA analysis of the NRC outdoor air sample for the period July 10 - 16, 1986 showed that concentrations of Cs-137 and I-131 were below the lower limit of quantitative detectability for the system.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Assembly of the desludging system continued.

7. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49, and 51.
- Recovery Operations Plan Change number 31 and 36.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- Defueling Canister Technical Evaluation Report, Revision 2.
- Heavy Load Safety Evaluation Report, Revision 3.
- Defueling Safety Evaluation Report, Revision 10.

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7. PUBLIC MEETING

The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on August 13, 1986 from 7:00 PM to 10:00 PM at the Lancaster Council Chambers, Public Safety Building, 201 North Duke Street, Lancaster, PA. At the meeting the panel will receive a status report on the progress of defueling from GPU Nuclear and a briefing on the licensee's plans for disposal of the processed water generated from the accident.

Persons desiring to speak before the Advisory Panel are requested to contact Mr. Thomas Smithgall at 717-291-1042, or write him at 2122 Marietta Avenue, Lancaster, PA 17603.

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

William D. Travers  
Director  
TMI-2 Cleanup Project Directorate

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TMI-2 Project Section File

TMI Cleanup Project Directorate (10)

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DATE ▶	7/21/86	7/21/86	7/21/86	7/21/86		