

June 2, 1986
 NRC/TMI-86-053

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 24 - June 1, 1986

1. DEFUELING

- Pick and place defueling activities continued. The number of canisters transferred to the fuel pool remains at 42.
- On Sunday, June 1, 1986, video tape of the core was taken.
- The sixth and final batch in the current campaign of Reactor Coolant System (RCS) drain and refill was completed on Saturday, May 31, 1986.
- The Defueling Water Cleanup System (DWCS) was restarted on Saturday, May 31, 1986 and ran until Sunday evening June 1, 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 84°F; reactor vessel water temperature as measured by resistance temperature detectors (RTD's) is 78°F. Water visibility is approximately 4 - 5 feet.
- The airborne radioactivity on the defueling platform is about 3 E-7 uCi/cc Tritium and 8 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.

3. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) and EPICOR II remain in temporary shutdown. The SDS has processed 3,954,097 gallons through

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batch S-131. EPICOR II has processed 2,925,820 gallons through batch 287. The next processing will be the RCS drain-down water from B and C Bleed Tanks, about 75,000 gallons.

To assure a maximum kill-off of the microbial growths throughout the water storage and processing systems, the licensee plans a tank-by-tank application of hydrogen peroxide. This will include the processed water storage tanks, the EPICOR II discharge and feed tanks, the neutralizer tanks, and the miscellaneous waste holdup tank.

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 from May 10 - 17, 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 10 - 17, 1986. A gamma scan detected a trace amount of Iodine-131 in the May 15 - 16, 1986 sample.
- The EPA analysis of the NRC outdoor sampler for the period May 22 - 29, 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 are probably from the Chernobyl accident.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Water flushing was performed 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. This is the first major decontamination of the room.
- Assembly of the Desludging system continued.
- On May 30, 1986, one of the rail shipping casks was moved into the fuel handling truck bay to assist in lining up the cask unloading station framing. 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 May 28, 1986 the NRC approved GPUN's safety evaluation report for Core Stratification Sample Acquisition, Revision 3.

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

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Director
TMI-2 Cleanup Project Directorate

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Harold R. Denton
Frank J. Miraglia

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