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May 19, 1986
NRC/TMI-86-050

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 12 - 18, 1986

1. DEFUELING

- No core defueling occurred during this week. The number of canisters transferred to the fuel pool remains at 42.
- Biocide addition to the RCS and hydrolancing of the reactor vessel components has been completed. Letdown and refill of the RCS is in progress. Four batches will be letdown in which about 15,000 gallons of water will be drained and then replaced with clean borated water treated with hydrogen peroxide. Draining of 15,000 gallons of water will leave the RCS level at about elevation 310'8" which is 2½ ft. above the top of the vessel flange.
- On May 12, 1986 during operations supporting rotation of the rotating work platform the trolley on the number one jib crane disengaged and fell into the reactor vessel. An operator was struck by a portion of the falling apparatus and received a scalp laceration. Approximately one half of the trolley was recovered from the vessel and examined to determine the failure mechanism. The trolley on the number one jib crane has been replaced with another of a different design. The number two jib crane which still has the original design trolley has been inspected. No deficiencies were observed. It remains out of service pending completion of licensee investigation, review, and modification.

2. PLAHT 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 99°F. Water visibility is approximately one foot.
- The airborne radioactivity on the defueling platform is about 7.0 E-7 uCi/cc Tritium and 2.6 E-12 uCi/cc particulates, predominately Cesium-137. The platform is mounted above the modified internals

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indexing fixture which is mounted on the reactor vessel flange. These provide water coverage of 151 feet over the core region.

3. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) has processed 71,238 gallons of batch S-131 from "B" Reactor Coolant Bleed Tank. The SDS total to date is 3,954,097 gallons.
- EPICOR II has processed batch 287; 10,710 gallons from the SDS monitor tanks. EPICOR II has processed 2,925,820 gallons to date.

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 26 - May 3, 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 26 - May 3, 1986. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI site collected a sample between May 8 - 15, 1986. The results were not available and will be reported in next weeks status report.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- A robot entry was made into the highly contaminated Seal Injection Valve Room on the 281' elevation of the Auxiliary Building. Gamma dose rates up to 300 R/hr at hot spots and general area dose rates ranging from 30 - 75 R/hr were observed. All operations were remotely controlled from outside the room. The beta component has not yet been determined.

6. PUBLIC MEETING

The Advisory Panel on 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.

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 (Revision 3).
- 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.

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Director
TMI-2 Cleanup Project Directorate

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