

December 15, 1986  
NRC/TMI-86-116

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 DECEMBER 8 - 14, 1986

1. DEFUELING

- Efforts continued to remove the broken drill strings imbedded in the debris pile as a result of core drilling operations. Four of the six broken strings have been removed. Efforts will resume to remove the remaining two when water clarity is regained.
- Hydrogen peroxide was added to the Reactor Coolant System (RCS) to control the regrowth of the bio-organisms. The addition resulted in severe degradation of water clarity.
- A decontamination experiment was performed in the reactor building basement. A high pressure hydrolazer mounted on a robot was used to scarify the concrete. The results of the experiment are under evaluation.
- The licensee completed the first of a series of tests of a program that involve addition of coagulant chemicals to the Defueling Water Cleanup System (DWCS) process stream. The coagulant, in conjunction with a filter aid material, was added while processing water from a bleed tank through a DWCS filter canister. Preliminary test results indicate a substantial increase in DWCS filter life as well as very good water clarity on the filter effluent. The test program will continue.

2. 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 effluents are sampled from the station (Units 1 and 2) discharge and analyzed by EPA. Gamma spectrum analyses of the seven daily composited samples (November 22 - 29, 1986) indicated no TMI-2 related radioactivity.

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- EPA's gamma spectrum analysis of the NRC's TMI outdoor air sample for December 4 - 11, 1986 showed no reactor related radioactivity.
- The Lancaster water works intake composited seven daily samples (November 23 - 29, 1986) gamma spectrum analyzed by EPA showed no reactor related radioactivity.

3. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Reclamation of Defueling Water Cleanup System (DWCS) filters continues.
- Fuel handling building ventilation system modifications are complete. Testing is in progress.
- Pre-operational testing of the Sediment Transfer System revealed that the system will require modification before it can be operated. Engineering studies are in progress to modify the system.
- Fuel canister preparation for shipment is in progress.
- Installation of an ultraviolet light/ozone device for water treatment has been placed on hold for industrial safety studies.

4. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request numbers 49, 51, 52, and 54.
- Recovery Operations Plan Change numbers 31 and 33.
- Solid Waste Facility Technical Evaluation Report.
- Heavy Load Safety Evaluation Report, Revision 3.
- Disposal of Processed Water Report.
- Safety Evaluation Report for Use of Plasma Arc Cutting Torch.
- Ex-Vessel Defueling Safety Analysis.
- Post Defueling Monitored Storage Proposal.
- Temporary Reactor Vessel Filtration System Safety Evaluation Report, Revision 3.

5. MEETING

- The Advisory Panel for the Decontamination of Three Mile Island Unit 2 met on December 10, 1986 in Harrisburg, PA. At this meeting the Panel was briefed by the licensee on their recent proposal for the Post Defueling Monitored Storage of TMI-2.

The next meeting of the Panel is tentatively scheduled for January 21, 1987 in Lancaster, PA. The exact date, time, location and agenda will be confirmed at a later date.

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

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Director  
TMI-2 Cleanup Project Directorate

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Harold B. Denton  
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