September 8, 1986
NRC/TMI-86-085

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 AUGUST 30 - SEPTEMBER 7, 1986

1. DEFUELING

- Bulk defueling operations continue. New tools have not been successful in increasing the rate of material placed in canisters. Progress has been slow because of the difficulty breaking the crust and interference from fused upper end fittings, and continued poor visibility.

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 79°F.
- The airborne radioactivity on the defueling platform above the reactor vessel is about 4.9 E-7 uCi/cc Tritium and 2.6 E-10 uCi/cc particulates, predominately Cesium-137 and Strontium-90. About 15 feet of water over the core region and 6 feet over the carousel holding the defueling canisters provide shielding.

3. 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 August 17 - 23, 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

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samples taken from August 16 - 23, 1986. A gamma scan detected no reactor related activity.

- The EPA analyses of the NRC outdoor air sample for the periods August 21 - 29 and August 29 - September 4, 1986 showed that concentrations of Cs-137 and I-131 were below the lower limit of quantitative detection (LLD) for the system. The LLD varies around 1E-13 uCi/cc.

4. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Start-up and testing evaluation of the sludge transfer system has begun.
- Hands-on decontamination of the "A" Bleed Tank Room continues.

5. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request numbers 49, 51, 52, and 54.
- Recovery Operations Plan Change numbers 31, 33, and 39.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- Heavy Load Safety Evaluation Report, Revision 3.
- Disposal of Processed Water Report.
- Sediment Transfer and Processing System SER
- End Fitting Storage SER
- SER for Use of Plasma Arc Cutting Torch

6. FUEL CASK SHIPMENTS

- The second railroad shipment of fuel debris has been received at the Idaho National Engineering Laboratory. To date 21 canisters have been shipped.

original signed by
Curtis Cowgill for:

William D. Travers
Director
TMI-2 Cleanup Project Directorate

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