

September 15, 1986  
NRC/TMI-86-092

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 SEPTEMBER 8 - 14, 1986

1. DEFUELING

- Defueling activities are currently directed towards removing end fittings from the top of the rubble bed. This will allow more efficient use of the core drilling equipment to perforate the hard crust when it is reinstalled. The end fittings will be temporarily stored in shielded 55 gallon drums in the reactor building until the end fittings can be sized to fit in fuel canisters. The first end fitting was placed into a shielded 55 gallon drum on Saturday evening September 13, 1986.
- In-vessel operations continued to proceed slowly due to 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, average air temperature of 57°F. The average reactor incore thermocouple reading is 78°F.
- The airborne radioactivity on the defueling platform above the reactor vessel is about 1.7 E-7 uCi/cc tritium and 1.6 E-11 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

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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 24 - 30, 1986. A gamma scan detected no reactor related activity.
- THI 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 August 24 - 30, 1986. A gamma scan detected no reactor related activity.
- The EPA analyses of the NRC outdoor air sample for the period September 4 - 11, 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 a value of  $1E-13$  uCi/cc.

4. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Start-up testing of the sludge transfer system continues.
- Hands-on decontamination has begun in the annulus area between the reactor building and fuel handling building.
- Hands-on decontamination of the "A" Bleed Tank Room and flushing of the Seal Injection Valve Room continues.

5. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request numbers 49, 51, 52, and 54.
- Recovery Operations Plan Change numbers 31 and 33 - Change Request No. 39 was approved September 11, 1986.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report was approved September 11, 1986.
- Heavy Load Safety Evaluation Report, Revision 3.
- Disposal of Processed Water Report.
- Sediment Transfer and Processing System SER.
- End Fitting Storage SER - Partial approval was given on September 11, 1986.
- SER for Use of Plasma Arc Cutting Torch.

ORIGINAL SIGNED BY:  
William D. Travers

William D. Travers  
Director  
THI-2 Cleanup Project Directorate

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Harold R. Denton  
Frank J. Miraglia

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