

September 22, 1986  
NRC/TMI-86-094

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 15 - 21, 1986

1. DEFUELING

- Removal of the internals vent valves continued; seven of the eight valves have been removed. The remaining valve hold-down has stripped threads and will have to be cut with special tooling. Removal of the vent valves provides an improved access path to the reactor coolant system loops and the lower reactor vessel head.
- Poor visibility continues to impede defueling progress. Attempts were made to improve water clarity using a bag type filter installed in the Fines/Debris Vacuum System. The licensee is evaluating the data from tests of the filter.

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 55°F. The average reactor resistance temperature detector reading is 71°F.
- The airborne radioactivity on the defueling platform above the reactor vessel is about  $8.0 \text{ E-7 uCi/cc}$  tritium and  $1.1 \text{ E-12 uCi/cc}$  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, HRC 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 30 - September 6, 1986. A gamma scan detected no reactor related activity.
- TII 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 30 - September 6, 1986. A gamma scan detected no reactor related activity except for the sample taken August 31 to September 1. This sample contained detectable I-131 at a level of 2 pico curies per liter. This was equal to the I-131 levels detected at the intake which indicates an off island source.
- The EPA analyses of the HRC outdoor air sample for the period September 11 - 19, 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 continues 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 was completed.

#### 5. HRC 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.
- 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.
- Core Bore Operations (as a defueling method).

ORIGINAL SIGNED BY:  
William D. Travers

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Director  
TII-2 Cleanup Project Directorate

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Harold R. Denton  
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DATE ▶	9/22/86	9/22/86	Tech Support	9/22/86			