

August 18, 1986
NRC/TMI-86-082

MEMORANDUM FOR: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Frank J. Miraglia, Director
Division of PHR Licensing-B

FROM: William D. Travers, Director
TMI-2 Cleanup Project Directorate

SUBJECT: NRC TMI-2 CLEANUP PROJECT DIRECTORATE WEEKLY STATUS
REPORT FOR AUGUST 11 - 17, 1986

1. DEFUELING

- Bulk defueling operations began on Tuesday, August 12, 1986. A heavy duty hydraulic chisel and small spade bucket have been used to fill one fuel canister to date.
- To improve in-vessel visibility, 55,000 gallons of reactor coolant are being letdown and made-up with an equivalent amount of cleaner water. The growth of microorganisms has caused the reduced visibility. Hydraulic oil leaks from defueling tools are the apparent sources of the microorganisms' organic carbon food.

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 3.9 E-7 uCi/cc Tritium and 1.9 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.

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3. RADIOACTIVE MATERIAL/WASTE SHIPMENTS

- a. Shipments of contaminated laundry were sent to Royersford, Pennsylvania on these dates:

April 4 - 80 drums, 3 boxes	June 3 - 57 drums, 3 boxes
8 - 104 drums, 5 boxes	11 - 69 drums, 2 boxes
14 - 120 drums, 4 boxes	18 - 60 drums, 3 boxes
18 - 57 drums, 2 boxes	24 - 67 drums, 2 boxes
23 - 108 drums, 2 boxes	
28 - 73 drums, 3 boxes	July 1 - 70 drums
	9 - 41 drums, 2 boxes
May 6 - 86 drums, 2 boxes	16 - 67 drums, 2 boxes
14 - 84 drums, 3 boxes	22 - 58 drums
20 - 71 drums, 2 boxes	30 - 65 drums, 3 boxes
27 - 61 drums, 3 boxes	

- b. Low specific activity waste was shipped to a commercial burial site Richland/Hanford, Washington:

April 2 - a dewatered EPICOR II resin liner
May 15 - combined unit, barrels of compacted waste
May 23 - a dewatered EPICOR II resin liner
June 2 - combined unit, dewatered resin liners, steel boxes
June 4 - a dewatered EPICOR II liner
July 3 - Unit 1, 2 dewatered resin liners
July 14 - combined unit, barrels of compacted waste
July 17 - Unit 1, 2 shipments, 2 dewatered resin liners each

- c. Samples were sent from THI to laboratories in these cities:

April 3 - Unit 1, Rockville, MD	June 3 - Unit 2, Westwood, NJ
8 - Unit 1, Rockville, MD	4 - Unit 1 & 2, Rockville, MD
17 - Unit 1, Rockville, MD	10 - Unit 1, Rockville, MD
18 - Unit 1, San Jose, CA	18 - Unit 2, Madison, PA
18 - Unit 2, Scoville, ID	
21 - Unit 1, Rockville, MD	July 2 - Unit 2, Scoville, ID
	10 - Unit 1, Rockville, MD (2 each)
May 1 - Unit 2, Scoville, MD	23 - Unit 1, Rockville, MD
5 - Unit 1, Westwood, NJ	
5 - Unit 1, Westwood, NJ	
8 - Unit 2, Scoville, ID	
12 - Unit 1 & 2, Rockville, MD	
14 - Unit 2, Scoville, ID	
20 - Unit 1, Rockville, MD	

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- d. Equipment was sent from THI to vendors or laboratories for analysis or repair on these dates to these cities:

- April 2 - Unit 1, 2 boxes containing pressurizer valves to Huntsville, AL
- 18 - Unit 1, a code safety valve to Huntsville, AL
- 22 - Unit 1, steam generator inspection equipment to Leechburg, VA
- June 25 - Unit 2, an emptied core debris canister to Scoville, ID
- July 1 - Unit 2, metal specimens to Lynchburg, VA
- 16 - Unit 2, metal specimens to Lynchburg, VA
- 30 - Unit 2, metal specimens to West Jefferson, OH

- e. During July one railcar-mounted cask containing Unit 2 core debris was sent to Idaho National Engineering Laboratories.

4. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (EPA) sample analysis results show that THI 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 July 27 - August 2, 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 July 26 - August 2, 1986. A gamma scan detected no reactor related activity.
- The EPA analysis of the NRC outdoor air sample for the period August 7 - 14, 1986 showed that concentrations of Cs-137 and I-131 were below the lower limit of quantitative detectability for the system.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Kelly vacuuming decontamination has been started in the Reactor Coolant Evaporator cubicle on the 281' elevation of the Auxiliary Building.
- Hands-on decontamination has been started in the Evaporator Condensate Test Tank cubicle after completion of Kelly vacuuming.

6. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request numbers 49, and 51.
- Recovery Operations Plan Change numbers 31 and 36.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- Defueling Canister Technical Evaluation Report, Revision 2.

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- Heavy Load Safety Evaluation Report, Revision 3.
- Defueling Safety Evaluation Report.
- Disposal of Processed Water Report.

7. PUBLIC MEETING

On the evening of August 13, 1986, the Advisory Panel for the Decontamination of Three Mile Island Unit 2 held a public meeting at the Public Safety Building, Lancaster, PA.

At this meeting, the Panel received a briefing by F. Standerfer, Director, THI-2, on the status of defueling. The Panel viewed a video tape of the recent core stratification sample acquisition program. The licensee also outlined plans for the continuation of the defueling program.

The Panel also received a status report by the HRC staff on regulatory issues related to THI-2.

The remainder of the meeting was devoted to a discussion of the licensee's recent proposal for the disposal of the THI-2 accident-generated water. The Panel received a presentation on this issue by F. Standerfer. The Panel and members of the public asked numerous questions related to the environmental acceptability of the various alternative disposal options. W. Travers, HRC, outlined the HRC's plans for the review of the licensee's proposal.

The next meeting of the Advisory Panel is scheduled for October 8, 1986 from 7:00 PM to 10:00 PM at a location to be determined.

original signed by
John A. Thomas for:

William D. Travers
Director
THI-2 Cleanup Project Directorate

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Harold R. Denton
Frank J. Miraglia
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