

July 14, 1986
NRC/THI-86-069

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
THI-2 Cleanup Project Directorate

SUBJECT: NRC THI-2 CLEANUP PROJECT DIRECTORATE WEEKLY STATUS
REPORT FOR JULY 7 - JULY 13, 1986

1. DEFUELING

- Core boring activities continued. Core positions N-12 and G-8 were drilled and video examinations of the holes were performed. Core samples from holes at core locations N-5, N-12, and G-8 are currently stored in fuel canisters in the canister positioning system.
- Information obtained from core bore operations to date has shown that fuel assemblies N-5 and N-12, which are near the core periphery, are largely intact below the rubble bed. Fuel assembly G-8, which is nearer to the core center consists largely of a fused mass.
- No relocated core material was encountered during drilling from the assemblies' lower end fittings to the lower flow distributor, however, relocated core material was seen in adjacent assemblies during video examinations.
- Drilling of core position G-12 is in progress.

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 81°F.
- The airborne radioactivity on the defueling platform is about 5.0 E-7 uCi/cc Tritium and 4.6 E-11 uCi/cc particulates, predominately Cesium-137 and Strontium-90. The platform is mounted above the modified internals indexing fixture which is mounted over the reactor vessel. These provide about 15 feet of water over the

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core region and 6 feet over the carousel holding the defueling canisters.

3. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) completed processing batch S-134, which consisted of about 14,000 gallons from the neutralizer tank.
- EPICOR II completed processing batch 298, 8,500 gallons from the monitor tanks, and batch 299, 7,000 gallons from the monitor tanks. The system began processing batch 300.
- Total volume processed through SDS to date is 4,061,103 gallons, and the total volume processed EPICOR II to date is 3,029,050 gallons.

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 June 22 - 28, 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 June 22 - 28, 1986. A gamma scan detected no reactor related activity.
- The EPA analysis of the NRC outdoor air sample for the period July 3 - 10, 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

- Assembly of the desludging system continued.

6. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49, and 51.
- Recovery Operations Plan Change number 31 and 36.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- Defueling Canister Technical Evaluation Report, Revision 2.
- Extended Core Stratification Sample Acquisition Activity.
- Heavy Load Safety Evaluation Report, Revision 3.
- Defueling Safety Evaluation Report, Revision 10.

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7. PUBLIC MEETING

The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on August 13, 1986 from 7:00 PM to 10:00 PM at the Lancaster Council Chambers, Public Safety Building, 201 North Duke Street, Lancaster, PA. At the meeting the panel will receive a status report on the progress of defueling from GPU Nuclear and a briefing on the licensee's plans for disposal of the processed water generated from the accident.

Persons desiring to speak before the Advisory Panel are requested to contact Mr. Thomas Smithgall at 717-291-1042, or write him at 2122 Marietta Avenue, Lancaster, PA 17603.

ORIGINAL SIGNED BY:

William D. Travers

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Director

THI-2 Cleanup Project Directorate

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Harold R. Denton
Frank J. Miraglia

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TMI-2 Project Section File

TMI Cleanup Project Directorate (10)

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