

50-320

September 29, 1986
NRC/THI-86-097

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 SEPTEMBER 22 - 28, 1986

1. DEFUELING

- One additional end fitting has been removed from the reactor vessel and stored in a shielded 55-gallon drum. Problems with faulty in-vessel lighting and high turbidity are causing poor visibility and impeding defueling progress.
- Efforts continue to restore water clarity in the reactor coolant system (RCS). Operation of the vacuum system with polypropylene bag filters proved to be of limited usefulness. Test runs with a deep bed diatomaceous earth filter installed in the Defueling Water Cleanup System (DWCS) were completed and the test data is being evaluated.
- The NRC staff approved GPUN's plan for temporary end fitting storage. This allows GPUN to store a planar array (ie. no stacking) of 55-gallon drums containing end fittings and incidental attached fuel in a designated storage area on the 347 ft. elevation of the reactor building. The staff had previously approved storage of a single drum.

GPUN has had difficulty getting end fittings through the openings in fuel canisters. Since the end fittings currently impede free access to the debris bed and crust, removal and storage of end fittings will facilitate the defueling 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, average air temperature of 55°F. The average RCS temperature is 76°F.

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- The airborne radioactivity on the defueling platform above the reactor vessel is about 2.4 E-7 uCi/cc tritium and 9.7 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 TII 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 September 7 - 13, 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 September 7 - 13, 1986. A gamma scan detected no reactor related activity except.
- The EPA analyses of the NRC outdoor air sample for the period September 19 - 25, 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.

5. NRC 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 Lead Safety Evaluation Report, Revision 3.
- Disposal of Processed Water Report.
- Sediment Transfer and Processing System SER.
- End Fitting Storage SER was approved on September 25, 1986.
- SER for Use of Plasma Arc Cutting Torch.
- Core Bore Operations (as a defueling method).

6. PUBLIC MEETING

The next meeting of the Advisory Panel for the Decontamination of Three Mile Island Unit 2 will be held on October 8, 1986 at the Holiday Inn, Center City, Harrisburg, PA from 7:00 PM to 10:00 PM.

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Harold R. Denton
Frank J. Straglia

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Persons desiring to speak before the Advisory Panel are requested to contact Mr. Thomas Smithgall at 717-291-1942, or write him at 2133 Marietta Avenue, Lancaster, PA 17603.

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Director
TMI-2 Cleanup Project Directorate

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Harold R. Denton
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DATE	9/29/86	9/29/86	Tech Support	9/29/86			