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April 8, 1985
NRC/TMI-85-026

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

Bernard J. Snyder, Program Director
TMI Program Office

FROM: William D. Travers, Deputy Program Director
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
April 1, 1985 - April 7, 1985

1. PLANT STATUS

- The facility remains in long term cold shutdown with the Reactor Coolant System (RCS) vented to the reactor building atmosphere and the reactor vessel head removed.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 70°F to 95°F with an average of 61°F. Average cold leg temperature is 60°F.
- Calculated reactor decay heat is less than 14 kilowatts.
- The modified internals indexing fixture is installed on the reactor vessel flange and is flooded to elevation 327 feet 6 inches (15½ feet above the top of the core region).
- The average reactor building temperature is 60°F. The reactor building airborne activity is 1.1 E-7 uCi/cc tritium, and 9.5 E-11 uCi/cc particulates, predominantly cesium 137.
- The reactor vessel plenum has been raised 7½ inches by hydraulic jacks and cleared of fuel assembly end fittings in preparation for final removal.

2. WASTE MANAGEMENT

- No Submerged Demineralizer System (SDS) processing occurred this week.
- EPICOR II processed batch 244, 1,900 gallons from the "B" contaminated drain tank, and batch 245, 16,500 gallons from the "A" reactor coolant bleed holdup tank. Processing of batch 246, about 16,000 gallons from the "A" reactor coolant bleed holdup tank is in progress.
- The Makeup and Purification Elution System has processed 23 batches through the "B" demineralizer. Processing of the "A" demineralizer is complete and the demineralizer is in wet layup.

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- Total volume processed through SDS to date is 2,750,261 gallons, and the total volume processed through EPICOR II is 2,369,103 gallons.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Scabbling and painting in the auxiliary building elevator pit have reduced the general area radiation levels in the pit from about 400 mrem per hour to about 100 mrem per hour.
- Steam cleaning to decontaminate the fuel transfer canal in the reactor building is in progress.
- Reactor building entries involving work on the 347' level have resulted in an average worker radiation dose of 33 mrem per entry man-hour. Work on the 305' level has resulted in an average dose of 64 mrem per entry man-hour.
- Average general area radiation dose rate on the 347' level of the reactor building is 36 mrem per hour. Average dose rate on the 305' level is 160 mrem per hour.

4. ENVIRONMENTAL MONITORING

- The Lancaster water sample taken at the water works intake and analyzed by the US Environmental Protection Agency consisted of a seven day composite sample taken from March 17, to March 23, 1985. A gamma scan detected no reactor related radioactivity.
- TMI water samples taken by the US Environmental Protection Agency at the plant discharge to the river consisted of seven daily composite samples taken from March 16, to March 23, 1985. Gamma scans detected no reactor related radioactivity.
- The NRC outdoor air sampler at the TMI Site collected a sample between March 27, 1985 and April 3, 1985. Analysis showed I-131 and Cs-137 concentrations less than the lower limits of detectability. No reactor related radioactivity was detected.
- Based on EPA's sampling results listed above, TMI site liquid effluents are in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.

5. REACTOR BUILDING ACTIVITIES

- The load test of the 25 ton auxiliary hoist on the polar crane was completed. The hoist is expected to be returned to service next week following review of the load test data.
- Preparations for plenum removal and defueling continued during daily reactor building entries. A reassessment of the project status is in progress and a revised schedule for plenum removal and defueling is expected by the end of April.

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- Radiation surveys and gamma spectroscopy were performed on the lower head of the pressurizer and the pressurizer surge line inside the "A" O-ring. This was done as part of a project to locate and quantify fuel material transported out of the reactor vessel during the accident. Preliminary review of the analysis indicates less than 10 kg of fuel material in these areas. Further studies of the steam generator "J" legs are planned and will include remote surveys, installation of TLD strings, and gamma camera imaging.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of piping, pipe hangers, and electrical cables for the Defueling Water Cleanup System continued.
- Installation of jib crane in the north end of the fuel handling building on elevation 347' is in progress. The crane is needed to support construction activities associated with the Defueling Water Cleanup System.

7. NRC EVALUATIONS IN PROGRESS

- Plenum Removal Safety Evaluation: Discussions were held between NRC and licensee staff on issues relating to plenum removal. NRC review of the additional information provided is in progress.
- Fuel Canister Rack Technical Evaluation
- Defueling Water Cleanup System Technical Evaluation
- Technical Specification Change Requests number 46 and 47
- Equipment Hatch Removal Safety Evaluation
- Boron Dilution Analysis

8. PROJECTED SCHEDULE OF FUTURE EVENTS

- Plenum Removal: May 17, 1985

9. PUBLIC MEETINGS

- The Advisory Panel for the Decontamination of Three Mile Island Unit 2 will meet on April 11, 1985, from 7:00 p.m. to 10:00 p.m. The meeting, which will be in the Lancaster Council Chambers, Public Safety Building, 201 N. Duke Street, Lancaster, Pennsylvania, will be open to the public. At the meeting, the Panel will receive presentations from the licensee on the distribution of fuel in the primary system and on plenum removal. The NRC staff will give a presentation on the staff's review of potential for inadvertent recriticality events. The NRC staff and the licensee will provide information on radiation protection issues related to the TMI-2 cleanup.

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Harold R. Denton
Bernard J. Snyder

April 8, 1985

Persons desiring the opportunity to speak before the Panel are asked to contact Mr. Thomas Smithgall at 717-291-1042 or write to him at 2122 Marietta Avenue, Lancaster, Pennsylvania 17603. Persons desiring to submit topics or questions for consideration by the Panel are asked to contact, in writing, Mayor Arthur Morris, 120 North Duke Street, Lancaster, Pennsylvania 17602.

~~Signature~~ SIGNED BY:
William D. Travers

William D. Travers
Deputy Program Director
TMI Program Office

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