

July 1, 1985
NRC/TMI-85-045

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
JUNE 24, 1985 - JUNE 30, 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 and plenum assembly removed.
- The reactor vessel plenum has been removed from the reactor vessel and placed on its storage stand in the deep end of the fuel transfer canal. A dam has been installed between the deep and shallow ends of the fuel transfer canal. The deep end is filled with water to a depth of about 20 feet (about 5 feet above the top of the plenum).
- 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).
- Calculated reactor decay heat is less than 12 kilowatts.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 71°F to 92°F with an average of 82°F. Average cold leg temperature is 56°F.
- The average reactor building temperature is 62°F. The reactor building airborne activity is 2.0 E-9 uCi/cc tritium, and 6.6 E-10 uCi/cc particulate, predominantly cesium 137.

2. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) was shutdown during this period. EPICOR II processed batch 257 (10,937 gallons).
- Total volume processed through SDS to date is 2,898,836 gallons, and the total volume processed through EPICOR II is 2,480,774 gallons.
- Seventeen shipments of radioactive material/waste were made from the site during the period May 21 - June 26, 1985:

Contaminated laundry was sent to Royersford, Pennsylvania:

June 5; 89 drums, 3 boxes

June 11; 102 drums, 4 boxes

June 19; 90 drums, 3 boxes

June 26; 67 drums, 4 boxes

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May 21, 1985 - A Unit 1 gas sample to Oak Ridge, Tennessee.
May 24, 1985 - Unit 1, 16 boxes of filter material to Hanford, Washington.
May 30, 1985 - Unit 1, 15 boxes of filter material to Hanford, Washington.
June 10, 1985 - A Unit 2 tank was sent to Buchanan, New York.
June 13, 1985 - A combined shipment of non-compacted waste was sent to Hanford Washington.
June 14, 1985 - A Unit 1 sample shipment was sent San Jose, California.
June 17, 1985 - A combined shipment of 112 drums was sent to Hanford, Washington.
June 19, 1985 - Two Unit 1 sample shipments were sent to San Jose, California.
June 19, 1985 - A Unit 1 sample was sent to Rockville, Maryland.
June 20, 1985 - A combined shipment of non-compacted waste in 18 boxes was sent to Richland, Washington.
June 21, 1985 - A Unit 1 shipment of two depleted resin liners was sent to Richland, Washington.
June 26, 1985 - A Unit 2 shipment, three spent resin liners and 8 steel boxes were sent to Hanford, Washington.
June 26, 1985 - A Unit 2 shipment of cable samples was sent to Hanford, Washington.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Shielding of the reactor building air coolers is in progress.
- Average general area radiation dose rate is 36 mrem per hour on the 347' level of the reactor building and is 160 mrem per hour on the 305' level of the reactor building.

4. ENVIRONMENTAL MONITORING

- EPA sample analysis results show TMI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.
- 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 June 8, to June 15, 1985. Gamma scans detected no reactor related radioactivity.
- 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 June 9, to June 15, 1985. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI Site collected a sample between June 19, and June 27, 1985. No reactor related radioactivity was detected. Analysis showed I-131 and Cs-137 concentrations to be less than the lower limits of detectability.

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5. REACTOR BUILDING ACTIVITIES

- Future work in the reactor building is focused on preparations for the first phase of defueling in September 1985. The 5-ton service crane was load tested and certified for use in the reactor building. This crane will be used in preparation for installation of defueling equipment but will not be used to transfer loaded fuel canisters. Additional near term defueling preparations include installation of defueling platform, completion of the Defueling Water Cleanup System (DWCS) and modifications to the auxiliary fuel handling bridge.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the DWCS continued. Partial DWCS turnover for processing RCS during early defueling is scheduled to be completed in late August.
- Boration of the processed water storage tank Number 1 is continuing. This tank, which will be used to flood the "A" spent fuel pool during defueling, contains water at a boron concentration of 4,580 ppm.

7. NRC EVALUATIONS IN PROGRESS

- Defueling Water Cleanup System Technical Evaluation (including Revision 6)
- Technical Specification Change Requests numbers 46, 48, and 50
- Equipment Hatch Removal Safety Evaluation
- Recovery Operations Plan Change numbers 27, 29, and 32
- Fuel Canister Technical Evaluation
- Fuel Handling Senior Reactor Operator Training Program
- Defueling Safety Evaluation

8. PROJECTED SCHEDULE OF FUTURE EVENTS

- Start of Defueling: September 1985

9. PUBLIC MEETING

- The next meeting of the Advisory Plan is scheduled for 7:00 PM, July 18, 1985, at the Public Service Building, 201 North Duke Street, Lancaster, PA.

ORIGINAL SIGNED BY:
William D. Travers

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Deputy Program Director
TMI Program Office

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Harold R. Denton
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