

June 3, 1985
NRC/TMI-85-039

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
MAY 25, 1985 - JUNE 2, 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.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 72°F to 92°F with an average of 81°F. Average cold leg temperature is 57°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 59°F. The reactor building airborne activity is 4.7 E-8 uCi/cc tritium, and 6.9 E-11 uCi/cc particulate, predominantly cesium 137.
- 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).

2. WASTE MANAGEMENT

- No EPICOR II or Submerged Demineralizer System (SDS) processing occurred this week.
- Total volume processed through SDS to date is 2,875,509 gallons, and the total volume processed through EPICOR II is 2,447,788 gallons.
- Fifteen shipments of radioactive material/waste were sent from the site during the month of May:
 - May 1, 1985 - a contaminated laundry shipment of 102 barrels and 3 boxes was sent to Royersford, Pennsylvania.
 - May 3, 1985 - a Unit 1 shipment of 16 steel boxes of filter cake material was sent to Richland, Washington.

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- May 6, 1985 - a Unit 1 shipment of radioactive waste samples was sent to Rockville, Maryland.
- May 8, 1985 - a contaminated laundry shipment of 83 drums and 2 boxes was sent to Royersford, Pennsylvania.
- May 9, 1985 - a Unit 1 waste shipment of 14 boxes of filter cake was sent to Hanford, Washington.
- May 13, 1985 - liquid samples from Unit 1 were sent to Westwood, New Jersey.
- May 15, 1985 - a shipment of Unit 2 scrap steel was sent to Oak Ridge, Tennessee.
- May 15, 1985 - a contaminated laundry shipment of 117 drums and 4 boxes was sent to Royersford, Pennsylvania.
- May 17, 1985 - Unit 1 sent four steel liners on two trucks filled with solidified evaporator bottoms to Richland, Washington.
- May 20, 1985 - a Unit 1 shipment of dewatered resins was sent to Barnwell, South Carolina.
- May 22, 1985 - a contaminated laundry shipment of 75 drums and 1 box was sent to Royersford, Pennsylvania.
- May 28, 1985 - a Unit 2 shipment of scrap steel and depleted acid was sent to Oak Ridge, Tennessee.
- May 28, 1985 - a contaminated laundry shipment of 67 drums and 4 boxes was sent to Royersford, Pennsylvania.
- May 30, 1985 - a Unit 1 waste shipment of 15 boxes of filter cake was sent to Richland, Washington.
- May 31, 1985 - three 15,000 gallon internally contaminated tanks (an oversized load shipment) were sent to Idaho National Engineering Laboratories at Scoville, Idaho.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- General cleanup continued in the control and service building basement.
- 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

- 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 May 12, to May 18, 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 May 11, to May 18, 1985. Gamma scans detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI Site collected a sample between May 23, and May 30, 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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- The above EPA sample analysis results show THI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.

5. REACTOR BUILDING ACTIVITIES

- Future work in the reactor building will be focused on preparations for the first phase of defueling in September 1985. The near term defueling preparations include installation of a 5-ton service crane over the refueling canal, completion of the Defueling Water Cleanup System and modifications to the auxiliary fuel handling bridge.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the Defueling Water Cleanup System (DWCS) continued.
- Boration of the processed water storage tank number 1 is in progress. The chemical addition will take about one month.
- The auxiliary building elevator has been decontaminated to general access levels (below 1,000 dpm/100 cm²; below 2.5 mR/hr).

7. NRC EVALUATIONS IN PROGRESS

- Defueling Water Cleanup System Technical Evaluation
- Technical Specification Change Requests numbers 46 and 48
- Equipment Hatch Removal Safety Evaluation
- Recovery Operations Plan Change numbers 27 and 29
- 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

ORIGINAL SIGNED BY
William D. Travers
Deputy Program Director
THI Program Office

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Harold R. Denton
Bernard J. Snyder

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TMI-2 Project Section File

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SURNAME ▶	DCollins/Imp	CCowgill	PGrant	Wrayers		
DATE ▶	6/3/85	6/7/85	6/3/85	6/3/85		