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April 1, 1985
HRC/TMI-85-024

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: HRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
March 25, 1985 - March 31, 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 83° 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 3.6 E-8 uCi/cc tritium, and 1.4 E-10 uCi/cc particulates, predominantly cesium 137.

2. WASTE MANAGEMENT

- No Submerged Demineralizer System (SDS) processing occurred this week.
- EPICOR II processed batch 243, which was about 7,000 gallons of water from the "A" Reactor Coolant Bleed Holdup tank.
- The Makeup and Purification Elution System has processed 22 batches through the "B" demineralizer. Processing of the "A" demineralizer is complete and the demineralizer is in wet layup.
- Total volume processed through SDS to date is 2,750,261 gallons, and the total volume processed through EPICOR II is 2,336,768 gallons.

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- Sixteen shipments of radioactive material/waste were sent from the site during the month of March:
 - March 6, 1985 - laundry shipment of 94 barrels and 4 boxes to Royersford, PA.
 - March 7, 1985 - Unit 1 - 8 steel boxes of filter cake to Richland, WA.
 - March 8, 1985 - Unit 1 - a single box containing fission detector foils to Los Alamos, NH.
 - March 11, 1985 - Unit 1 - 7 steel boxes of filter cake to Richland, WA.
 - March 13, 1985 - Unit 1 - a radioactive source was returned to Los Alamos, NH.
 - March 13, 1985 - laundry shipment of 86 drums and 1 box to Royersford, PA.
 - March 13, 1985 - a combined shipment of non-compactible material and one solidified liquid liner was sent to Richland, WA.
 - March 15, 1985 - Unit 1 - miscellaneous liquid samples were sent to Westwood, NJ.
 - March 15, 1985 - Unit 1 - miscellaneous liquid samples were sent to San Jose, CA.
 - March 19, 1985 - Unit 2 - a dewatered spent resin liner was sent to Richland, WA.
 - March 20, 1985 - a laundry shipment of 105 drums and 2 boxes was sent to Royersford, PA.
 - March 25, 1985 - a laundry shipment of 15 drums for evaluation was sent to Portsmouth, VA.
 - March 25, 1985 - Unit 2 - a steel box of contaminated scrap metal and control panels was sent to Oak Ridge, TN.
 - March 26, 1985 - SDS liner D20033 was turned over to DOE at the site boundary for a DOE shipment to Richland, WA.
 - March 27, 1985 - a laundry shipment of 111 drums and 3 boxes was sent to Royersford, PA.
 - On March 29, 1985 a combined unit shipment of 120 drums of compacted radioactive waste was sent to Richland, WA.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Scabbling and painting in the decay heat vaults on the 258' elevation of the Auxiliary Building was completed.
- Scabbling and painting in the spray vaults on the 258' elevation of the Auxiliary Building was completed.
- Reactor Building entries involving work on the 347' level have resulted in an average worker radiation dose of 34 mrem per entry man-hour. Work on the 305' level has resulted in an average dose of 100 mrem per entry man-hour.
- Average general area radiation dose rate on the 347' level of the

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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 10, to March 16, 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 9, to March 16, 1985. Gamma scans detected no reactor related radioactivity.
- The HRC outdoor air sampler at the TMI Site collected a sample between March 21, 1985 and March 27, 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

- A scheduled load test of the polar crane auxiliary hoist was not performed last week. Limit switch and rigging problems delayed the load test preparations. The load test has been rescheduled for the week of March 31, 1985.
- Plenum removal and defueling preparations have continued in parallel with the auxiliary hoist refurbishment. Plenum removal is currently scheduled for late May 1985. However, because of construction delays of supporting systems and software the defueling schedule is currently being evaluated and a new schedule is due by the end of April.

6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of piping, pipe hangers, and electrical cables for the Defueling Water Cleanup System continued.
- Refurbishment of the "A" fuel pool continued.
- Makeup and Purification System elution continued. Water rinsing of the "B" demineralizer is in progress and will be followed by chemical adjustment for final wet layup. The "A" demineralizer is in wet layup in RCS grade water.

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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

- Polar Crane Auxiliary Hoist Requalification: April 3, 1985
- 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.

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.

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Deputy Program Director
TMI Program Office

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