

March 24, 1986
NRC/TMI-86-027

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

Frank J. Hiraqlia, Director
Division of PMR Licensing-B

FROM: William D. Travers, Director
TMI-2 Cleanup Project Directorate

SUBJECT: NRC TMI-2 CLEANUP PROJECT DIRECTORATE WEEKLY STATUS
REPORT FOR MARCH 17 - MARCH 23, 1986

1. DEFUELING

- As of March 23, 1986, 28 debris canisters have been transferred from the reactor vessel to pre-shipment storage. These cans have a total net weight of 30,678 lbs. which is about 10% of the estimated core material originally in the reactor vessel.

2. PLANT STATUS

- The reactor remains in long term cold shutdown, vented to atmosphere. Core cooling is by natural heat loss to ambient building atmosphere. The incore thermocouple average is 80°F.
- The airborne radioactivity on the defueling platform is about 7.1 E-7 uCi/cc Tritium and 3.0 E-11 uCi/cc particulates, predominately Cesium-137. The platform is mounted above the modified internals indexing fixture which is mounted on the reactor vessel flange. These provide water coverage of 15½ feet over the core region. This water level is about 5 feet over the top of any debris canisters in the reactor vessel.

3. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) continued processing batch 130 from the "C" Reactor Coolant Bleed Tank (RCBT) to the monitor tanks then to the "A" RCBT. SDS total processed to date is 3,342,869 gallons.
- EPICOR II was in temporary shutdown this week. EPICOR II total processed to date is 2,854,371.

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4. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (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 EPA at the plant discharge (includes TMI-1 and TMI-2) to the river consisted of seven daily composite samples taken from March 1 through March 3, 1986. A gamma scan detected no reactor related activity.
- These EPA samples are then sent to Pennsylvania - Department of Environmental Resources (PA-DER) for determination of Tritium, gross Alpha emitters and gross beta emitters. These data are normally available about two months from sampling. Unit 1's resumed operation is accompanied by normal releases of fission and activation products, which are allowed by Technical Specifications. Tritium is the only isotope released in detectable quantities. The average concentrations reported in the TMI-1 Effluent Summary for October - December 1985 (244 pCi/l, 350 pCi/l, 1700 pCi/l) were consistent with the PA-DER Tritium values as detected in 20 of 92 daily outfall samples. These Tritium values are much less than 1/1,000 of the limit of 3,000,000 pCi/l.
- The Lancaster water sample taken at the water works intake and analyzed by EPA consisted of a seven day composited sample taken from March 2 through March 8, 1986. A gamma scan detected no reactor related radioactivity. No Tritium was detected during October - December 1985.
- The NRC outdoor airborne particulate sampler at the TMI site collected a sample between March 13, and 20, 1986. No reactor related radioactivity was detected. Analysis showed Iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.

5. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the balance of Defueling Water Cleanup System (DWCS) continued.
- The Kelly vacuuming decontamination in the 281' elevation of the fuel handling building has resulted in the release of 75% of the general access areas from loose contamination controls.
- The initial Seal Injection Valve Room (281' Auxiliary Building) entries on March 17 and 21 were judged to be successful in removing boron which built up on rubber and lead shielding installed in 1980-1981. The low pressure water flush proved the floor drain is operating.

6. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Request number 49.
- Recovery Operations Plan Change number 31.
- SDS Technical Evaluation and System Description Update.
- Core Stratification Sample Safety Evaluation.

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- Containment Air Control Envelope Technical Evaluation Report, Revision 5.
- Solid Waste Facility Technical Evaluation Report.
- Reactor Building Sump Criticality Safety Evaluation Report.
- TMI-2 Temporary Reactor Vessel Filtration System Safety Evaluation Report, Revision 1.

7. PUBLIC MEETING

The next meeting of the Advisory Panel is scheduled for April 10, 1986 at the Holiday Inn, 23 South Second Street, Harrisburg, PA from 7:00 PM to 10:00 PM.

Persons desiring the opportunity to speak before the Advisory Panel are asked to contact Mr. Thomas Smithgall at 717-291-1042 or write to him at 2122 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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