

October 7, 1985
NRC/TMI-85-075

50-289
50-320

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
SEPTEMBER 30, 1985 - October 6, 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 from the reactor vessel.
- The plenum is 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 (15 1/2 feet above the top of the core region). The defueling platform is installed over the Internal Indexing Fixture in preparation for defueling.
- 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 70°F to 91°F with an average of 79°F. Average cold leg temperature will no longer be reported.
- The average reactor building temperature is 56°F. The reactor building airborne activity is 4.8 E-9 uCi/cc Tritium and 1.5 E-10 uCi/cc particulate, predominantly Cesium 137.

2. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) commenced processing batch 124 from neutralizer tanks (NDL-T-8 A/B) to SDS monitor tanks (SDS-T-1 A/B). To date 3,036 gallons from this batch have been processed.

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- EPICOR II commenced processing batch 267 from CC-T-1 to CC-T-2. To date 18,296 gallons from this batch have been processed.
- Total volume processed through SDS to date is 2,681,278 gallons, and the total volume processed through EPICOR II is 2,966,411 gallons.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Decontamination activities are continuing on the 281' level of the auxiliary building.
- Average general area radiation dose rate is 40 mrem per hour on the 347' level of the reactor building and is 67 mrem per hour on the 305' level of the reactor building.

4. STRONTIUM-90 INSPECTION

- A special inspection was conducted on September 30 through October 2, 1985 to review the licensee's report that due to misinterpretation of a calibration procedure, the Strontium-90 (Sr-90) activities reported for some solid waste shipments were one-half the actual activities. The inspectors also reviewed the licensee's efforts to determine the extent of the corrections which may be needed. The licensee agreed to perform an independent assessment of the chemistry quality Assurance/Quality Control (QA/QC) program; implement a formalized QA/QC program; and to assure that all procedures used at THI-2 for Sr-90 analyses are clear and accurate.

5. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (EPA) sample analysis results show THI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.
- THI water samples taken by EPA at the plant discharge to the river consisted of seven daily composite samples taken from September 14 through September 21, 1985. A gamma scan detected no reactor related activity.
- The Lancaster water sample taken at the water works intake and analyzed by EPA consisted of a seven day composited sample taken from September 15 through September 21, 1985. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the THI Site collected a sample between September 25 and October 2, 1985. No reactor related radioactivity was detected. Analysis showed Iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.

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6. REACTOR BUILDING ACTIVITIES

- Defueling Water Cleanup System (DWCS) preoperational testing and modification continued.
- Work is in progress on the canister positioning system and canister handling bridge.
- Installation of the vacuum defueling system is in progress.

7. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the DWCS continued. Partial DWCS turnover for processing RCS during early defueling is expected to be completed in October.
- All four of the fuel canister storage racks have been inspected. Three of the four fuel canister storage racks have been positioned in the spent fuel pool "A" and their position is being adjusted. The fourth rack has been installed into the fuel pool.

8. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Requests numbers 48 and 50.
- Recovery Operations Plan Change numbers 29, 31, and 32.
- Fuel Canister Technical Evaluation, Revision 1.
- Defueling Safety Evaluation.
- Application for seismic exemption.
- SDS Technical Evaluation and System Description Update.
- Core Stratification Sample Safety Evaluation.
- Heavy Load Handling Safety Evaluation Report.
- Boron Dilution Hazard Report
- Defueling Water Cleanup System Technical Evaluation Report, Revision 7.
- NRC Vendors Program Branch has completed an inspection at Joseph Oat Corporation which is fabricating fuel canisters. A report of the inspection findings will be issued in a few weeks.

9. PUBLIC MEETING

The next meeting of the Advisory Panel is scheduled for October 16, 1985 in Lancaster, Pennsylvania at 7:00 PM. The meeting will be held in the Lancaster Council Chambers at 201 North Duke Street. Dr. H. Arnold Muller, Secretary, Department of Health will review the results of the Health Department's recently completed epidemiology studies.

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4

October 7, 1985
NRC/TM-85-075

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.

ORIGINAL SIGNED BY:
William D. Travers

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Deputy Program Director
TMI Program Office

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5

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