

August 13, 1984
NRC/TMI-84-059

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

Bernard J. Snyder, Program Director
TMI Program Office

FROM: Philip J. Grant, Acting Deputy Program Director
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
August 5, 1984 - August 11, 1984

Data from effluent and environmental monitoring systems indicated no plant release in excess of regulatory limits. Plant parameters showed no significant changes. The reactor coolant system is open, with the internals indexing fixture and cover in place.

Site activities this period included: reactor building floor scabbling, repositioning equipment after head lift, and decontamination of the auxiliary and fuel handling buildings. Five reactor building entries were made this week. (For more details see appropriate paragraphs below.)

Significant items covered in the enclosure are:

- Reactor Building Activities
- Auxiliary and Fuel Handling Building Activities
- Waste Water Management Activities
- EPA Head Lift Monitoring Results
- Public Meeting

Data summary sheets included in this report are:

- Liquid Effluent Data
- Environmental Data
- EPA Environmental News
- Plant Status Data

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ORIGINAL SIGNED BY:

Philip J. Grant
Acting Deputy Program Director
TMI Program Office

Enclosure: As stated

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ENCLOSURE

REACTOR BUILDING ACTIVITIES:

Following the reactor vessel head lift, the next major phase of work in the reactor building will be focused on the plenum assembly inspection and removal from the reactor vessel. During the next several weeks, procedures to inspect the plenum and to separate debris from the underside of the plenum will be finalized. The TMIPD staff has approved the licensee's safety evaluation for plenum inspection. The staff is currently evaluating the safety aspects of APSR (axial power shaping rod) movement and debris removal from the plenum. While plenum related procedures are being written, further decontamination of the reactor building floor surfaces will be done in a way that will avoid interference with operations requiring constant transit across areas being decontaminated.

The method of floor surface decontamination which appears to be effective involves the use of a scabbler. The scabbler mechanically removes the surface paint and as much as a 1/8 inch layer of concrete from the surface of the floor. The scabbled surface is then vacuumed and repainted. Scabbling of the reactor building floors on the 347 ft. elevation is expected to continue through the month of September. Scabbling effectiveness for man-rem savings on the 305 ft. elevation is being evaluated.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Work continues on the "A" fuel pool refurbishment. The major activities were water flushing operations to reduce contamination in the lower tanks and the standpipe connecting them.

A portable cement solidification system was installed in the fuel handling building truck bay this week. Solidification of spent resins has begun and will be continued next week.

Efforts in the auxiliary building this week have been directed towards scabbling floor surfaces to reduce personnel exposures, and in removing lead shielding which is no longer needed on the covers of the decay heat vaults. Installation work continues on the makeup and purification demineralizer elution system. The TMIPD staff is currently evaluating the safety aspects of this resin elution project.

WASTE MANAGEMENT ACTIVITIES:

The submerged demineralizer system (SDS) processed batch 99 from the neutralizer tanks during July 29 - August 5, 1984. Total volume processed was 13,201 gallons.

Batch 100 was processed through SDS from the "C" reactor coolant bleed tank (RCBT) during August 5 - 8, 1984. Total volume processed was 20,670 gallons.

SDS processed batch 101 from the waste gas decay tank on August 8, 1984. The water was generated as a result of the decontamination effort in the tank. Total volume processed was 1513 gallons.

EPICOR II processed batch 220 from the "B" RCBT during July 26 - 28, 1984. Total volume processed was 18,962 gallons.

EPA MONITORING RESULTS:

See Appendix 3 for the EPA's Environmental News for TMI radiation monitoring results, with emphasis on head lift operations.

PUBLIC MEETING:

On August 9, 1984, the Advisory Panel for the Decontamination of Three Mile Island Unit 2 met in Harrisburg, Pennsylvania. Dr. W. Kirk, Director TMI Field Station, U.S. Environmental Protection Agency (EPA) summarized the results of the EPA's radiation monitoring program in the vicinity of the TMI site during head lift. Dr. Kirk reported that measurements taken during the head lift and all analyses completed from samples taken during the head lift operation show no increase in radioactivity attributable to the licensee's activities. Dr. Kirk also received comments from the Advisory Panel on proposed changes to the EPA TMI radiation monitoring program. Mr. K. Miller, Panel member, provided written comments on the revisions to the program to both the Advisory Panel and Dr. Kirk. The Panel passed a resolution endorsing the revised EPA program.

Mr. B. Kanga, Director TMI-2, GPU Nuclear Corporation, and other licensee officials, briefed the Panel on the head lift operation conducted last month. The Panel and public were shown a video tape of the head lift operation. The licensee provided a detailed discussion of worker radiation exposure attributable to the head lift. Cumulative radiation exposure was below that predicted by both the licensee and the NRC.

Mr. Kanga also informed the Panel that there was no change in the information on funding for the cleanup presented at the July 12, 1984, Advisory Panel meeting.

The Panel received a considerable number of comments from the public in the areas of EPA's radiation surveillance program and the licensee's actions during the head lift operation.

APPENDIX 1

LIQUID EFFLUENT DATA

GPU Nuclear

Based on sampling and monitoring, liquid effluents from the TMI site released to the Susquehanna River were determined to be within regulatory limits and in accordance with NRC requirements and the City of Lancaster Agreement.

During the period August 3 through August 9, 1984, liquid effluents contained no detectable radioactivity at the discharge point. Individual effluent sources originating within Unit 2 contained minute amounts of radioactivity. Calculations indicate that less than 1.91 E-6 (0.00000191) curies of cesium-137, less than 1.3 E-5 (0.000013) curies of tritium, and less than 3.01 E-6 (0.00000301) curies of gross beta radioactivity were released.

Environmental Protection Agency

Lancaster Water Samples:	7 samples
Period Covered:	July 22 - 28, 1984
Results:	Gamma Scan Negative
TMI Water Samples:	7 samples
Period Covered:	July 21 - 28, 1984
Results:	Gamma Scan Negative

APPENDIX 2

ENVIRONMENTAL DATA

NRC Environmental Data

The NRC operated continuous outdoor air sampler at the TMI site did not detect any reactor related radioactivity. The air sampler analysis results are listed below.

<u>Sample</u>	<u>Period</u>	<u>Volume</u>	<u>I-131 & Cs-137</u> <u>(uCi/cc)</u>
HP-431	August 1 - 8, 1984	483.6 m ³	<7.2 E-14