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October 15, 1984
NRC/THI-84-075

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

Bernard J. Snyder, Program Director
THI Program Office

FROM: William D. Travers, Deputy Program Director
THI Program Office

SUBJECT: NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
OCTOBER 6, 1984 - OCTOBER 14, 1984

Data from effluent and environmental monitoring systems indicated no plant release in excess of regulatory limits. Waste processing continued on a routine basis. Plant parameters have shown no significant changes. Other site activities this period included: scabbling and sealing of reactor building floor surfaces, makeup and purification demineralizer elution operations, continued fuel pool "A" refurbishment and routine waste processing.

Significant items covered in the enclosure are:

- Reactor Building Activities
- Auxiliary and Fuel Handling Building Activities
- THI Site Annual Emergency Exercise
- Correction of Liquid Effluent Data for October 5, 1984
- Public Meetings

Summary sheets included in this report are:

- Liquid Effluent and Environmental Data
- Plant Status Data

ORIGINAL SIGNED BY:
PHILIP J. GRANT/for
William D. Travers
Deputy Program Director
THI Program Office

Enclosure: As stated

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OFFICE ▶	TMIPD <i>DK</i>	TMIPD <i>RC</i>	TMIPD <i>32</i>	TMIPD <i>W</i>			
SURNAME ▶	DCollins/Imp	RCook	PGrant	WTravers			
DATE ▶	10/15/84	10/15/84	10/ /84	10/ /84			

ENCLOSURE

REACTOR BUILDING ACTIVITIES:

One reactor building entry is scheduled for the week of October 14, 1984 to perform housekeeping and minor maintenance of equipment. Work in the reactor building has come to a virtual standstill while discrepancies, which were identified on the polar crane, are being corrected. The polar crane came under scrutiny after an inspection revealed that one of the brakes on the main hoist was disabled. Preliminary findings indicate that a manual brake release mechanism, which had been installed during refurbishment work in 1982, had drifted out of adjustment and disabled one of the two redundant brake systems on the polar crane main hoist.

The manual brake release mechanisms have been removed from the main hoist brakes to prevent a similar malfunction from occurring again. The crane will not be returned to full service until the results of a comprehensive polar crane mechanical and electrical inspection are reviewed. Additionally, an administrative review is being conducted to determine whether the hand release mechanisms were installed in accordance with applicable procedures and in accordance with criteria established for polar crane refurbishment.

AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Refurbishment activities in the "A" fuel pool have continued this week, concentrating on the internal decontamination of the lower tanks and removal of tank support steel.

The makeup and purification demineralizer resin elution process continued this week. Two dilution batches and two chemical elution batches have been processed from the "B" demineralizer. Two dilution batches have been processed from the "A" demineralizer and the first chemical elution batch of the "A" demineralizer is in progress and was completed on October 15, 1984. Approximately ten elution batches per demineralizer are planned, with a tentative schedule for completion by November 1984. A total of 9,000 gallons of waste water has been generated by the elution process and about 6,300 gallons of this has been processed through the submerged demineralizer system. The remainder is presently being held in the installed neutralizer tanks. About 1,000 curies of the approximately 8,000 curies, predominantly cesium, has been removed from the damaged demineralizer resins to date.

TMI SITE ANNUAL EMERGENCY EXERCISE:

The TMI site annual emergency exercise was held on October 3, 1984. Licensee actions in responding to a GPU Nuclear developed reactor emergency scenario were evaluated by an NRC Region I inspection team. Among the activities evaluated were: detection, classification and operational assessment of the simulated emergency; post-accident sampling systems; emergency damage analysis, control and repair; direction and coordination of the licensee's emergency response; radiological monitoring capabilities in-plant, onsite and offsite; notifications of licensee personnel and offsite agencies; plant and site security; radiological consequence analyses for radioactive releases in-plant, onsite and to the public offsite; and performance of first aid and rescue. Engineering responses from onsite and remotely located engineering groups were evaluated. Communications information flow and record keeping, in-plant and between the licensee's emergency support centers and local, state and federal agencies were evaluated. An inspection exit meeting was held on October 5, 1984 at which the licensee was

APPENDIX 1

LIQUID EFFLUENT AND ENVIRONMENTAL 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 October 5, 1984 through October 11, 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 3.4 E-6 (0.0000034) of a curie of Cs-137 and less than 2.3 E-6 (0.0000023) of a curie of gross beta activity were discharged.

Environmental Protection Agency

Lancaster Water Samples: 7 samples

Period Covered: September 23 - 29, 1984

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: 7 samples

Period Covered: September 22 - 29, 1984

Results: Gamma Scan Negative for reactor related radioactivity

NRC Environmental Data

The NRC operated continuous outdoor air sampler at the TMI site did not detect any reactor related radioactivity. The air sampler parameters are listed below. The analysis results were less than the lower limit of detectability of the analytical instruments: 8.3 E-14 uCi/cc for I-131 and 8.3 E-14 uCi/cc for Cs-137.

<u>Sample</u>	<u>Period</u>	<u>Volume</u>
HP-440	October 4 - 10, 1984	423.8 m ³