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TO: Mr. W. G. McDonald

FROM: Metropolitan Edison Company
Reading, Pa.
J. G. Herbein

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DESCRIPTION

Letter trans the following:

ENCLOSURE

Monthly Report for September 1977
Plant & Component Operability & Availability.
This Report to be used in preparing Gray Book
by Plans & Operations.

PLANT NAME: Three Mile Island Unit No. 1
RJL 10/28/77 (1-P) (5-P)

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FOR ACTION/INFORMATION

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October 7, 1977
GQL 1372

Director of Nuclear Reactor Regulation
Attn: Mr. W. G. McDonald, Director
Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D C. 20555

OCT 21

Dear Sir:

Operating License No. DPR-50
Docket No. 50-289

Enclosed please find the September Operating Report for Three Mile Island Nuclear Station, Unit 1. Per Mr. R. W. Reid's letter of September 19, 1977, we have modified the content of the Operating Report to include a "Narrative Summary of Operating Experience".

Sincerely,

J. G. Herbein
Vice President

JGH:DGM:tas

Enclosure

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OPERATING SUMMARY

TMI-1 operated at essentially full power until September 14, 1977 at 2320, when the Unit reduced power to 50% in order to investigate the cause of what appeared to be condenser tube fouling. While operating at 50%, inspection of the condenser revealed some tube blockage and significant screen blockage of the "Amertap" Condenser Cleaning System.

As a result of the contamination of the condensate and feedwater systems on 9/16/77 with I.W.T. Regeneration Acid, OTSG's Chemistry went out of specification in conductivity and pH, and forced the Unit to be immediately shutdown.

On 9/19/77, after commencing plant heat-up, the "A" Reactor Coolant Pump tripped on overload when started. Plant heat-up was delayed to inspect and repair RC-P-1A. Approximately 6 inches of one phase of the RC-P-1A motor lead had been destroyed due to a loose connector at the motor. Repair of RC-P-1A and subsequent inspection of the connectors in RC-P-1B and RC-P-1D further delayed plant startup.

On 9/24/77 while increasing the generator field voltage in preparation for closing the main generator breakers, the generator and turbine tripped due to a generator ground within the Isolated Phase Bus Duct Cooling System. The Bus Duct had collected moisture while the unit was off the line and once this moisture was removed, the ground was corrected. On 9/27/77 the unit was brought back on line and remained at full power for the remainder of the month.

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MAJOR SAFETY RELATED MAINTENANCE

Decay Heat Pumps 1A and 1B

The Decay Heat Pumps 1A & 1B were inspected during this month for possible shaft defects per NRC request. The following work/inspection was performed on each pump:

1. IRD readings were taken.
2. Pump to motor coupling removed.
3. Ultrasonic test of pump shaft.
4. Analysis of UT results.
5. Coupling of pump to motor.
6. Testing of pump and declaring pump operable.
7. Return pump to service.

Each pump was taken out of service separately to perform the above work. Results of UT and IRD readings were satisfactory for both pumps. All work performed on each pump was completed within the time limits set forth in the technical specifications.

Reactor Coolant Pump 1A

On September 19, 1977, while starting the RC-P's for plant startup, RC-P-1A tripped due to loss of voltage. Inspection of RC-P-1A's motor leads revealed a phase to ground short had occurred near the local bus and cable connections. Repairs included removal of tape from cable leads and local bus bar, cleaning of cable and bus bar connections, replacement of cable from motor to local bus bar, tightening of all connections, retapping, disconnecting and replacing surge capacitor, meggering of motor, replacing panel covers, testing pump and returning pump to service.

During the repairs of RC-P-1A, RC-P-1B & 1D motor connections were also inspected. The inspections included removal of tape from motor leads and local bus bar connections, checking connections for signs of deterioration, cleaning and tightening connections, retapping, disconnecting of surge capacitor, meggering of motor, reconnecting surge capacitor, replacement of panel covers, testing of pumps, and returning pump to service. Results of inspections were satisfactory.

The cause of the short is presently under investigation.