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U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Subject: Three Mile Island Nuclear Station, Unit I (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Monthly Operating Report for December 1991

Enclosed are two copies of the December, 1991 Monthly Operating Report for Three Mile Island Nuclear Station, Unit 1. Also enclosed is a revised page 4 for the November 1991 report which corrects an error in the reporting of the year-to-date Gross Thermal Energy Generated value.

Sincerely,

T. G. Broughton
Vice President and Director, TMI-1

WGH

Attachments

cc: Administrator, Region I
TMI Senior Resident Inspector

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OPERATIONS SUMMARY
DECEMBER 1991

The unit entered the month operating at 100% power producing 868 MWe. On 12/5/91 a planned power reduction to 57% was accomplished to support the flushing of the stator cooling lines on two control rod drive mechanisms. An o-ring was flushed from the cooling line of each mechanism. The plant returned to 100% power the same day. The unit returned to and continued at full power until 12/12/91. During the performance of a technical specification biweekly rod exercise surveillance, CRDM group 6 rod 1 dropped into the core. A cable/stator electrical connection at the reactor vessel head was determined to be the cause of the rod drop. Plant power was reduced to 42% to support the repair efforts. On 12/13/91 following successful repair of the electrical connection, the plant was returned to 100% power. The unit closed the month operating at 100% power.

MAJOR SAFETY RELATED MAINTENANCE

During November, the following major safety related maintenance activity was performed:

Emergency Diesel Generators (EG-Y-1 A/B)

Work tasks accomplished during the annual overhaul of Emergency Diesel Generator (EG-Y-1A/B) included inspecting upper connecting rod floating bushings, crankshaft and main/connecting rod bearings, vertical drive, blower drive, fuel control linkage, oil and water pumps, and sampling lubricating oil. The scavenging air coolers on both diesels were inspected. The cooler on EG-Y-1B required removal and cleaning. All other inspection results were satisfactory. During testing, air start compressor EG-P-1A failed and a spare compressor was installed. Other corrective maintenance activities included replacement of the up-to-voltage/thermal overload relays and the angle drive immersion heaters.

Reactor Vessel Control Rod Drive System

On December 5th, power was reduced to approximately 57% due to increasing stator water temperatures on CRDM #15 (core location B-8) and CRDM #17 (core location D-8). An inspection of the flexible quick-disconnect fittings on the CRDM stator cooling water hoses was performed. The quick disconnect fittings on CRDM #15 were opened and an o-ring was flushed from the fitting. A flush of CRDM #17 also revealed a hose blocked by an o-ring. The fittings were reconnected and power returned to 100%. An investigation into the origin of the o-rings is in progress.

On December 12th, during a surveillance test which exercises the control rod drive mechanisms, control rod (#15) dropped fully into the core. Operators stabilized power at about 42%. Inspection of the circuitry revealed that the connector at the CRDM stator was not fully engaged. The electrical connector

threads were dressed to minimize the possibility of cross threading and the connector was cleaned before the connection was remade and tightened. The connection was meggered and the resistance readings taken were satisfactory. The plant returned to 100% power on December 13th.

Make-Up Pump (MU-P-1B)

Makeup Pump MU-P-1B was removed from service during the month to repair pump casing vent line leaks. The vent piping was removed from the pump casing and the casing/piping threads were cleaned. The piping was then reinstalled and the casing/piping threaded connection was seal welded. Post maintenance and NDE inspection results were satisfactory and MU-P-1B was returned to service.