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Three Mile Island Unit 1
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May 17, 2007
5928-07-20110

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

THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (TMI-1)
OPERATING LICENSE NO. DPR-50
DOCKET NO. 50-289

SUBJECT: 30-Day Voluntary Report – Radiological Release Below Regulatory Reporting Limits

The attached report of a radiological release below regulatory reporting limits is being submitted in accordance with an industry initiative regarding voluntary reporting of releases to groundwater, surface water, or soil.

For additional information regarding this report contact Adam Miller of TMI Unit 1 Regulatory Assurance at (717) 948-8128.

Sincerely,



Thomas J. Dougherty
Plant Manager

TJD/awm

ATTACHMENT: 30-Day Voluntary Report

cc: TMI Senior Resident Inspector
Administrator, Region I
TMI-1 Senior Project Manager
File No. 07033

IE 22

SUMMARY OF AMERGEN ENERGY CO. L.L.C. COMMITMENTS

The following table identifies commitments made in this document by AmerGen Energy Co. L.L.C. (AmerGen). Any other actions discussed in the submittal represent intended or planned actions by AmerGen. They are described to the NRC for the NRC's information and are not regulatory commitments.

COMMITMENT	COMMITTED DATE OR "OUTAGE"
No regulatory commitments are being made in this submittal.	N/A

Attachment: 30-Day Voluntary Report

Water was identified at the exterior foundation wall of the telephone equipment room on April 17, 2007. Laboratory analysis of the water indicated tritium at 45,000 pCi/L. Coincident with this discovery, water was identified in a trench located just inside the telephone equipment room. The telephone equipment room trench water was sampled on April 18, 2007, and the results indicated tritium at 45,200 pCi/L. No other radionuclides were identified in either sample. The tritiated water was located near the Condensate Storage Tank 1A (CO-T-1A). Increased monitoring of wells in the vicinity of CO-T-1A had been initiated since March 28, 2007, when routine monitoring first identified elevated tritium levels.

An underground leak was identified on a flanged connection on a section of the de-ice line connected to CO-T-1A. Following excavation, a temporary soft patch was applied around the leaking flange. The area under the flange was covered in plastic and a sump pump was installed to periodically pump the leaking water to the monitored Turbine Building sump. The catch container will remain in place until permanent repairs are executed.

There is no indication of elevated tritium in the nearby onsite domestic water well as a result of this leak. Nearby wells will be monitored to identify any migration of the tritium in the groundwater.

The Hydrogeologic Investigation Report completed in September 2006 confirmed that most of the groundwater tritium at TMI remains on the island due to the onsite industrial wells drawing the aquifer to the well heads. An additional Groundwater Flux Migration study completed in January 2007 provided the basis for estimating the amount of groundwater migration to the Susquehanna River. This data is included in the annual effluents report.