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TMI-13-034

February 26, 2013

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

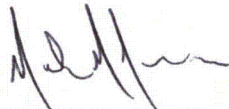
THREE MILE ISLAND UNIT 1 (TMI-1)
RENEWED OPERATING LICENSE NO. DPR-50
DOCKET NO. 50-289

SUBJECT: 2012 ANNUAL REPORT

Attached is the 2012 Annual Report for TMI-1. This report is being submitted in accordance with TMI-1 Technical Specifications Sections 6.9.1.B.2 through 6.9.1.B.5 and 6.17. The attachments to this letter contain the following information:

- Attachment 1 - Aircraft movement data from the Harrisburg International Airport (per TMI-1 T.S. section 6.9.1.B.2).
- Attachment 2 - Leak reduction program test information (per TMI-1 T.S. 6.9.1.B.3).
- Attachment 3 - Pressurizer power operated relief valve and pressurizer safety valve challenges (per TMI-1 T.S. section 6.9.1.B.4).
- Attachment 4 - Results of specific activity analysis - primary coolant system (per TMI-1 T.S. section 6.9.1.B.5).
- Attachment 5 - Major changes to radioactive waste treatment systems (per TMI-1 T.S. section 6.17)

Sincerely,



Mark Newcomer
Plant Manager, Three Mile Island Unit 1

MN/mdf

Attachments

cc: TMI, Unit 1 Senior Resident Inspector
Administrator, Region I
TMI, Unit 1 Project Manager

ADD
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ATTACHMENT 1

AIRCRAFT MOVEMENTS AT
THE HARRISBURG INTERNATIONAL AIRPORT (HIA)

JANUARY 1, 2012 THROUGH DECEMBER 31, 2012

1. Total Aircraft Movements – 56,405
2. Estimated total number of movements of aircraft larger than 200,000 pounds – 1306.

This estimate is composed of two parts, 1056 movements of civilian aircraft, and 250 movements of U.S. Government and military aircraft.

TECHNICAL SPECIFICATION 6.9.1.B.3
PERIODIC LEAK REDUCTION PROGRAM TEST RESULTS

The results of the TMI-1 2012 periodic Leak Reduction Program Tests, which included visual inspections, are summarized in Table 1. These tests were performed in accordance with the surveillance procedures listed.

TABLE 1
2012 LEAK REDUCTION PROGRAM TEST RESULTS FOR TMI-1

SURVEILLANCE PROCEDURES	PROCEDURE TITLE / DESCRIPTION	DATE OF PERFORMANCE	LEAKING COMPONENT I.D.	LEAK RATE	LEAK RATE	RESULTING MAINTENANCE UNDERTAKEN
				AS-FOUND	AS-LEFT	
OP-TM-211-251	Leakage Exam inside MU tank room	02/25/2012	None	0	0	
OP-TM-211-251	Leakage Exam of MU-P-1C	08/14/2012	None	0	0	
OP-TM-212-251	DH Leakage Exam (Train B)	10/15/2012	None	0	0	
OP-TM-211-251	Leakage Exam of MU System (Outside RB)	11/14/2012	MU-V-64B	0.008 ml/min	0.008 ml/min	Packing leak contained & evaluated as acceptable
OP-TM-211-250	Leak Check of Bleed Line Piping/Valves	12/09/2012	None	0	0	
The following are Local Leak Rate Tests with units of standard cubic centimeters per minute (sccm)						
1303-11.17A	Local Leak Rate Testing – Reactor Building Equipment Hatch Airlock	03/10/2012	Equipment Hatch Airlock	4,365	4,365	None – LLRT summation evaluated as acceptable
OP-TM-823-251	Local Leak Rate Testing – Purge Exhaust Penetration Valves	06/12/2012	AH-V-1A/B (combined)	571	407	AH-V-1B valve & operator preventative maintenance
MA-TM-244-218A	Penetration 104, 105, 106, 213 and 214 LLRT	08/31/2012	Penetration 104 flange	Not required	20	Flange removed for use during forced outage

Note: Local Leak Rate Testing is performed under the Option B provisions of 10CFR50 Appendix J, and the minimum LLRT leakage value used is 20 sccm based on the low end of the calibration range of the flow instrumentation.

ATTACHMENT 3

PRESSURIZER POWER OPERATED RELIEF VALVE AND PRESSURIZER
SAFETY VALVE CHALLENGES IN 2012

There were no challenges to the pressurizer power operated relief valve (PORV) or either of the two pressurizer (PZR) safety valves during the entire calendar year of 2012.

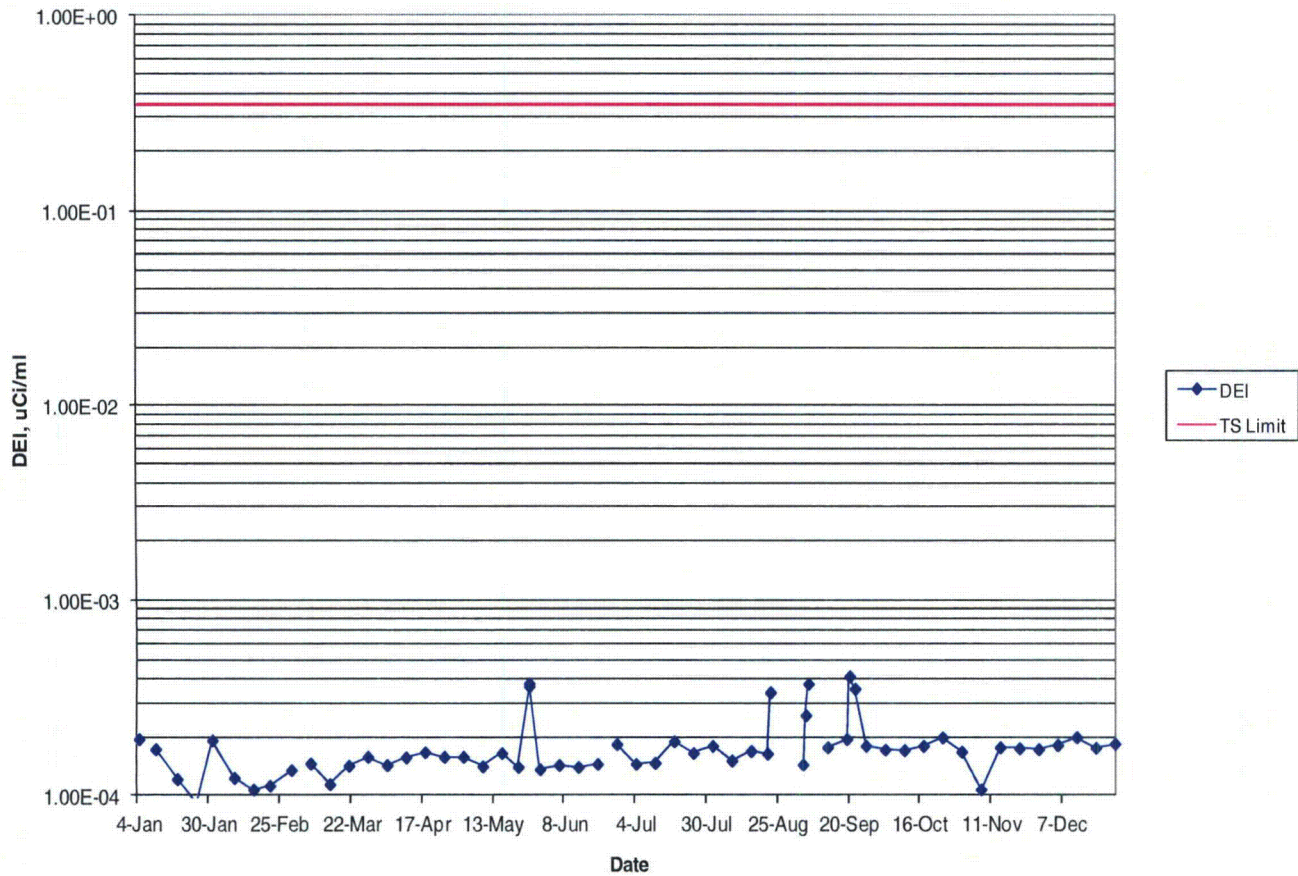
A review of the Reactor Coolant System (RCS) pressure indication trend data concluded that the RCS pressure operated well below the PORV set point of 2450 psig, and both PZR safety valve set points of 2500 psig throughout the calendar year of 2012. Therefore no challenges to the PORV or PZR safety valves occurred during 2012.

ATTACHMENT 4

RESULTS OF SPECIFIC ACTIVITY ANALYSIS-
PRIMARY COOLANT SYSTEM

Technical Specification 6.9.1.B.5 requires annual reporting of certain information regarding the results of specific activity analyses in which the primary coolant exceeded the limits of Technical Specification (TS) 3.1.4.1. The limits of TS 3.1.4.1 were not exceeded at TMI-1 at any time during the year 2012. The figure of RCS activity for 2012 shows that the limit of 0.35 microcurie/gram dose equivalent I-131 (DEI) was not exceeded in 2012.

TMI-1 Dose Equivalent Iodine (DEI) in 2012



ATTACHMENT 5

MAJOR CHANGES TO RAD WASTE TREATMENT SYSTEMS

Technical Specification Section 6.17 requires reporting of Major changes to Radioactive Waste Treatment Systems. Major changes are interpreted to mean changes that would alter how the system functions or changes that would affect operational exposures, offsite dose rates or integrated doses. There were no major changes to the liquid, gaseous, or solid radioactive waste treatment systems at TMI-1 during the year of 2012.