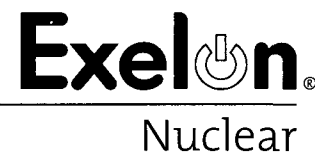


Three Mile Island Unit 1
Route 441 South, P.O. Box 480
Middletown, PA 17057

Telephone 717-948-8000



February 20, 2009
TMI-09-013

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

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

SUBJECT: 2008 ANNUAL REPORT

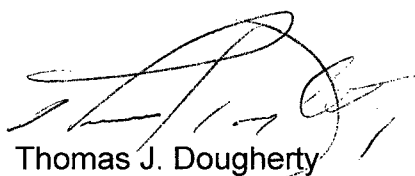
Attached is the 2008 Annual Report for TMI-1. This report is being submitted in accordance with TMI-1 Technical Specifications Sections 6.9.1.B.2 through 6.9.1.B.5 and 6.17. The attachments to this letter contain the following information:

- 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).

A001
HRR

Attachment 5 - Major changes to radioactive waste treatment systems (per
TMI-1 T.S. section 6.17)

Sincerely,

A handwritten signature in black ink, appearing to read 'TJD', is written over a circular stamp or seal.

Thomas J. Dougherty
Plant Manager

TJD/awm

Attachments

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

ATTACHMENT 1

AIRCRAFT MOVEMENTS AT
THE HARRISBURG INTERNATIONAL AIRPORT (HIA)
JANUARY 1, 2008 THROUGH DECEMBER 31, 2008

1. Total Aircraft Movements – 66,961.
2. Estimated total number of movements of aircraft larger than 200,000 pounds – 1309.

This estimate is composed of two parts, 1284 movements of civilian aircraft, and 25 movements of military aircraft.

ATTACHMENT 2

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

The results of the TMI-1 2008 periodic Leak Reduction Program Tests, which included visual inspections, are summarized in Table 1. These tests were performed in accordance with the referenced procedures. (See Note 1 for procedure titles.)

TABLE 1
2008 LEAK REDUCTION PROGRAM TEST RESULTS FOR TMI-1

SURVEILLANCE PROCEDURES (Note 1)	DATE OF PERFORMANCE	LEAKING COMPONENT I.D.	LEAK RATE	LEAK RATE	RESULTING MAINTENANCE UNDERTAKEN
			AS-FOUND	AS-LEFT	
1303-11.18 LLRT summation (applying Option B)	2008	MAXPATH MINPATH	<u>01/01/08</u> 22,106 sccm 10,088 sccm	<u>12/31/08</u> 15,152 sccm 7,748 sccm	None required
OP-TM-823-251	11-08-2008	AH-V-1A/B	1168 sccm	Scheduled in 2009	Valve operator modification
OP-TM-823-252	08-09-2008	AH-V-1C/D	838 sccm	1211 sccm	Valve PM
1303-11.29	08-01-2008	None		0	None required
OP-TM-212-251 (DH train A outside RB)	11-04-2008	None		0	None required
OP-TM-212-251 (DH Train B outside RB)	10-14-2008	None		0	None required
OP-TM-211-251 (HPI train B outside RB)	02-14-2008	None		0	None required
OP-TM-211-251 (HPI train A outside RB)	05-14-2008	None		0	None required
OP-TM-211-250	09-04-2008	None		0	None required

Note 1: 1303-11.18, "RB Local Leak Rate Testing"
1303-11.29, "Waste Gas Disposal System Leak Check"
OP-TM-211-250, "Leak Check of Bleed Line Piping and Valves" (formerly
"Liquid Waste Disposal System Leak Check")
OP-TM-211-251, "Leakage Exam of Make-up System"
OP-TM-212-251, "DH Leakage Exam for IST"
OP-TM-823-251, "LLRT of Purge Exhaust Penetration Valves"
OP-TM-823-252, "LLRT of Purge Supply Penetration Valves"

ATTACHMENT 3

PRESSURIZER POWER OPERATED RELIEF VALVE AND PRESSURIZER SAFETY
VALVE CHALLENGES IN 2008

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 2008.

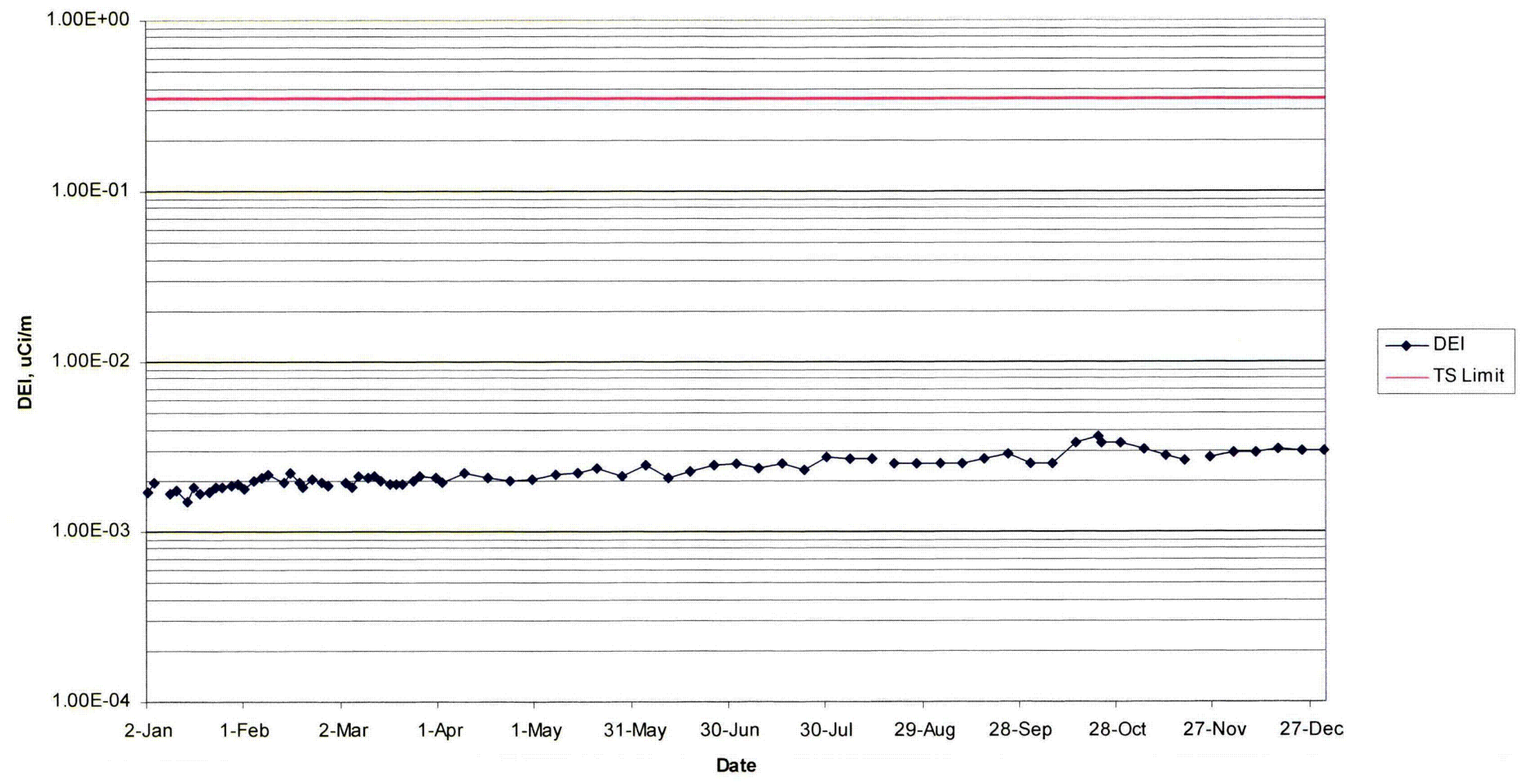
A review of the Reactor Coolant System (RCS) pressure indication trend data concluded that the RCS pressure operated well below the PORV set point of 2450 psig, and both PZR safety valve set points of 2500 psig throughout the calendar year of 2008. Therefore no challenges to the PORV or PZR safety valves occurred during 2008.

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 2008. The figure of RCS activity for 2008 shows that the limit of 0.35 microcurie/gram dose equivalent I-131 (DEI) was not exceeded in 2008.

TMI-1 Dose Equivalent Iodine (DEI) in 2008



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 2008.