NRC FORM 366 (7-77)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 LICENSEE CODE: P A T M I 1 (2) LICENSE NUMBER: (3) LICENSE TYPE: 4 1 1 1 1 (4) CAT (5)

CON'T 01 REPORT SOURCE: L (6) DOCKET NUMBER: 0 5 0 0 0 2 8 9 (7) EVENT DATE: 0 1 0 1 8 3 (8) REPORT DATE: 0 2 0 1 8 3 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During shutdown while RB Purge was in progress, station radiation monitor RM-A9, iodine
03 channel, failed. No significant occurrence took place. The particulate and noble gas
04 channels of RM-A9 were operable. No iodine above background was present since plant
05 has been in cold shutdown since 1979. Public health and safety were unaffected.
06 Reportable per 6.9.2.B(2)
07
08

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	B B (11)	E (12)	A (13)	I N S T R U (14)	E (15)	Z (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 3	—	0 0 1	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	X (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	A (25)	V 1 1 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Failure of RM-A9 iodine channel was due to single channel analyzer circuit board
11 failure. Shortly before failure routine source check had been performed satisfactorily
12 purge was secured per TS Table 3.21-2. Circuit board replaced and quarterly calibra-
13 tion performed. No further corrective action required.
14

15	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	X (28)	0 0 0 (29)	NRC Order	B (31)	Operator Observation

16	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	N/A	N/A

PERSONNEL EXPOSURES

17	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	N/A

PERSONNEL INJURIES

18	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	N/A

8302090175 830201
PDR ADOCK 05000289
S PDR

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE	DESCRIPTION
	Z (42)	

PUBLICITY

20	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)	N/A	

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LER 83-01

I. Current Activites at the Time of the Occurrence

TMI Unit 1 was in a long term cold shutdown condition.

II. Circumstances Leading to the Occurrence

At 0150 on 1/1/83 RM-A9 Iodine channel, which monitors the Reactor Building purge effluent, failed. A Reactor Building purge was in progress at the time.

Shortly before the failure a routine source check of the Iodine channel had been satisfactorily performed.

III. Description

Per action statement 31 of Tech. Spec. Table 3.21-2 the purge which was in progress may continue for up to 28 days, provided that, within 4 hours after the channel has been declared inoperable, samples are continuously collected with auxiliary sampling equipment. The Reactor Building purge was terminated at 0155 hours on 1/1/83, within the required 4 hours.

While RM-A9 Iodine channel was out of service the minimum number of operable channels was less than that required by Tech. Spec. 3.21-2. This item is considered reportable under Technical Specification 6.9.2.B.(2) as operation in a degraded mode permitted by a limiting condition for operation.

IV. Resultant Event

No significant occurrence took place as a result of this event. The particulate and gas channels of RM-A9 were operable during the purge. No iodine above background was present since the plant has been in cold shutdown since 1979.

V. Previous Events of a Similar Nature

LER 82-07.

VI. Root Cause

Failure of RM-A9 iodine single channel analyzer circuit board.

VII. Immediate Corrective Action

Immediate corrective action was to secure the purge within the required time frame. An investigation revealed that the single channel analyzer circuit board of RM-A9 iodine channel had failed. The circuit board was

replaced and SP 1302-3.1, RMS Quarterly Calibration, was performed to assure the channel was functioning properly following repair.

VIII. Long Term Corrective Action

No additional corrective action is required for this isolated case of component failure.

IX. Component Failure Data

Victoreen single channel analyzer circuit board, part number 842-3-6.