NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

0 1	O H D B S 1 (2)	Ø Ø - Ø Ø N P F - Ø 3 (3)	4 1 1 1 1 (4)	(5)						
7 8	9 LICENSEE CODE 14	15 LICENSE NUMBER 25	26 LICENSE TYPE 30	57 CAT 58						

CON'T

0 1	REPORT SOURCE L (6)	Ø 5 Ø - Ø 3 4 6 (7)	Ø 9 1 7 7 8 (8)	1 Ø 1 1 7 8 (9)	
7 8	60	61 DOCKET NUMBER 68	69 EVENT DATE 74	75 REPORT DATE 80	

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 At 2220 hours on September 17, 1978, loud noises were heard emitting from the vacuum
0 3 pump on Post-Accident Radiation Monitor RE 5030. The radiation monitor was removed
0 4 from service. There was no danger to the health and safety of the public or unit per-
0 5 sonnel. The other Post-Accident Radiation Monitor, RE 5029, was operable during the
0 6 period that RE 5030 was inoperable. (NP-33-78-115)
0 7
0 8

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	B B (11)	E (12)	B (13)	V A L V E X (14)	D (15)	D (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
7 8	—	Ø 9 7	/	Ø 3	L	—	Ø

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	Z (19)	Z (20)	Z (21)	Ø Ø Ø Ø	Y (23)	Y (24)	A (25)	A 4 9 9 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 A diaphragm inside the pump discharge solenoid valve was found to have cracked. It is
1 1 believed that this failure was caused by high ambient temperatures inside the radia-
1 2 tion monitor cabinet. A new diaphragm was installed in the solenoid valve. At 1805
1 3 hours on September 18, 1978, RE 5030 was declared operable. Facility Change Request
1 4 78-299, which requested the installation of a cooling system was prepared.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	E (28)	1 Ø Ø (29)	NA	A (31)	Noise

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	N A	NA

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	Ø Ø Ø (37)	Z (38)	NA

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	Ø Ø Ø (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	NA

PUBLICITY

	ISSUED	DESCRIPTION (45)	NRC USE ONLY
2 0	N (44)	NA	

DVR 78-149 7810160140 S

NAME OF PREPARER Susan A. Kovach PHONE: 419-259-5000, Ext. 230

GPO 917-926

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-78-115

DATE OF EVENT: September 17, 1978

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Post-Accident Radiation Monitor RE 5030 inoperable

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2772, and Load (MWE) = 920.

Description of Occurrence: At 2220 hours on September 17, 1978, loud noises were heard emitting from the vacuum pump on Post-Accident Radiation Monitor RE 5030. The radiation monitor was removed from service.

This placed the unit in the Action Statement of Technical Specification 3.3.3.6, which requires that the monitor be repaired within 30 days. The Technical Specification requires the operability of both post-accident radiation monitors while the unit is in Modes 1, 2 or 3.

Designation of Apparent Cause of Occurrence: The apparent cause of the occurrence is attributed to component failure due to design error. A diaphragm inside the pump discharge solenoid valve was found to have cracked. It is believed that this failure was caused by high ambient temperatures inside the radiation monitor cabinet in excess of the maximum design operating temperature.

Analysis of Occurrence: There was no danger to the health and safety of the public or unit personnel. The other Post-Accident Radiation Monitor, RE 5029, was operable during the period that RE 5030 was inoperable.

Corrective Action: Under Maintenance Work Order 78-2178 and I&C Work Order 78-536, a new diaphragm was installed in the solenoid valve. After completion of Surveillance Test ST 5032.01, "Monthly Functional Test of the Radiation Monitoring System", at 1805 hours on September 18, RE 5030 was declared operable. The unit was then removed from the Action Statement of Technical Specification 3.3.3.6.

Facility Change Request 78-299, which requested the installation of a cooling system for RE 5029 and RE 5030, was prepared on June 21, 1978.

Failure Data: This is a repetitive occurrence. Previous failures of post-accident radiation monitors due to high ambient temperatures have been reported in Licensee Event Reports NP-33-78-30, NP-33-78-77, NP-33-78-105, and NP-33-78-111.

LER #78-097