

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 0 H D B S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5

REPORT SOURCE: L 6 0 5 0 0 0 3 4 6 7 0 9 1 7 7 8 8 0 8 0 4 8 1 9

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 (NP-33-78-115) At 2220 hours on September 17, 1978, loud noises were heard emitting

0 3 from the vacuum pump on post-accident radiation monitor RE 5030. The radiation monitor

0 4 was removed from service. There was no danger to the health and safety of the public

0 5 or to station personnel. The other post-accident radiation monitor RE 5029 was opera-

0 6 ble during the period that RE 5030 was inoperable.

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

17 LER/RO REPORT NUMBER: 7 8 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

## 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 radiation

1 2 monitor cabinet. A new diaphragm was installed in the solenoid valve. At 1805 hours

1 3 on September 18, 1978, RE 5030 was declared operable. FCR 78-521, which reduces the

1 4 speed of the pumps in RE 5029 and RE 5030, has been implemented.

1 5 FACILITY STATUS: E 28 % POWER: 1 0 0 29 OTHER STATUS: NA 30 METHOD OF DISCOVERY: A 31 Noise 32

1 6 ACTIVITY: Z 33 CONTENT: Z 34 AMOUNT OF ACTIVITY: NA 35 LOCATION OF RELEASE: NA 36

1 7 PERSONNEL EXPOSURES: 0 37 TYPE: Z 38 DESCRIPTION: NA 39

1 8 PERSONNEL INJURIES: 0 40 DESCRIPTION: NA 41

1 9 LOSS OF OR DAMAGE TO FACILITY: Z 42 DESCRIPTION: NA 43

2 0 PUBLICITY: N 44 DESCRIPTION: NA 45

NRC USE ONLY

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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.

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

Analysis of Occurrence: There was no danger to the health and safety of the public or to 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 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.

1 | Facility Change Request (FCR) 78-521 has been implemented to reduce the  
1 | speed of the pumps in RE 5029 and RE 5030. This change will reduce the  
1 | motor load and consequently decrease the pump wear and internal heating.

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, NP-33-78-111.