

LICENSEE EVENT REPORT

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

0 1 0 H D B S 1 2 0 0 - 0 0 N P F - 0 3 3 4 1 1 1 1 4 5
7 8 9 14 15 25 26 57 CAT 58

CON'T
0 1 REPORT SOURCE L 6 0 5 0 - 0 3 4 6 7 0 9 0 2 7 8 8 0 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 On 9/2/78, Containment Post-Accident Radiation Monitor RE 5029 was observed to have
0 3 erratic flow and was declared inoperable by the Shift Foreman. The unit was then
0 4 placed in the Action Statement of Technical Specification 3.3.3.6. There was no
0 5 danger to the health and safety of the public or to unit personnel. The redundant
0 6 post-accident radiation monitor, RE 5030, was operable. (NP-33-78-111)

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SYSTEM CODE B B (11) CAUSE CODE E (12) CAUSE SUBCODE B (13) COMPONENT CODE M O T O R X (14) COMP. SUBCODE Z (15) VALVE SUBCODE Z (16)
17 LER RO REPORT NUMBER 7 8 (21) 0 9 4 (24) 0 3 (28) L (30) 0 (32)
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRPD-4 FORM PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
A (18) X (19) Z (20) Z (21) 0 0 0 0 (22) Y (23) 2 (24) A (25) R I P O (26)
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause of the occurrence is component failure due to design error. The failure of
1 1 the pump motor is believed to have been caused by high ambient temperatures. New
1 2 bearings and a new solenoid valve were installed. Requests have been issued to perform
1 3 an engineering evaluation of motor-related problems on radiation monitors, and to
1 4 request installation of a cooling system for the monitors.

1 5 FACILITY STATUS E (28) 0 7 5 (29) NA (30) METHOD OF DISCOVERY A (31) NA (32) DISCOVERY DESCRIPTION
7 8 9 10 11 12 13 44 45 46 80

1 6 ACTIVITY CONTENT RELEASED OF RELEASE Z (33) Z (34) NA (35) AMOUNT OF ACTIVITY NA (36) LOCATION OF RELEASE
7 8 9 10 11 12 13 44 45 80

1 7 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 0 0 0 (37) Z (38) NA (39)
7 8 9 10 11 12 13 80

1 8 PERSONNEL INJURIES NUMBER DESCRIPTION 0 0 0 (40) NA (41)
7 8 9 10 11 12 13 80

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION Z (42) NA (43)
7 8 9 10 11 12 13 80

2 0 PUBLICITY ISSUED DESCRIPTION N (44) NA (45)
7 8 9 10 11 12 13 80

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-78-111

DATE OF EVENT: September 2, 1978

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Containment Post-Accident Radiation Monitor RE 5029 inoperable

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2089, and Load (MWE) = 700.

Description of Occurrence: At 1356 hours on September 2, 1978, Containment Post-Accident Radiation Monitor RE 5029 was observed to have erratic flow and, therefore, declared inoperable by the Shift Foreman. The unit was then placed in the Action Statement of Technical Specification 3.3.3.6, which requires post-accident monitoring instrumentation to be operable while the unit is in Modes 1, 2, or 3. The Action Statement requires that the inoperable unit be restored within 30 days or the unit must be placed in Hot Shutdown within the next 12 hours.

Designation of Apparent Cause of Occurrence: The apparent cause of the occurrence is component failure due to design error. Failure of the pump motor is believed to have been caused by ambient temperatures which were 10°C in excess of the maximum design operating temperature of 40°C.

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 5030, was operable during the period that RE 5029 was inoperable.

Corrective Action: Under Maintenance Work Orders 78-2139 and 78-2167 new bearings and a new solenoid valve were installed. The unit was removed from the Action Statement of Technical Specification 3.3.3.6 after completion of Surveillance Test ST 5032.01, "Monthly Functional Test of the Radiation Monitoring System", at 0145 hours on September 16.

An engineering evaluation of motor-related problems on radiation monitors has been requested. Facility Change Request (FCR) 78-159, which requested that inboard and outboard pump motor bearings be replaced with a sealed bearing, was prepared on March 23, 1978. FCR 78-299, which requested 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 monitor pumps and motors have been reported in Licensee Event Reports NP-33-78-30, NP-33-78-45, NP-33-78-77, NP-33-78-91, NP-33-78-101, and NP-33-78-105.