

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
8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 58

CON'T
0 1 REPORT SOURCE L 6 0 5 0 - 0 3 4 6 7 0 1 1 0 7 9 8 0 1 3 1 7 9 9
8 9 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 On 1/10/79, during performance of surveillance testing, it was determined that Channel
0 3 2 of the containment hydrogen analyzer was inoperable. This occurrence placed the unit
0 4 in the Action Statements of T.S. 3.3.3.6 and 3.6.4.1. There was no danger to the
0 5 health and safety of the public or unit personnel. Containment Hydrogen Analyzer
0 6 Channel 1 was operable during the period that Channel 2 was inoperable. In addition,
0 7 the containment hydrogen analyzers are used only during long term cooling after a
0 8 loss of coolant accident has occurred. (NP-33-79-10)
7 8 9

0 9 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
S E 11 E 12 E 13 I N S T R U 14 T 15 Z 16
9 10 11 12 13 18 19 20
17 LER RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
7 8 21 22 23 24 26 27 28 29 30 31 32
B 18 Z 19 C 20 Z 21 0 0 7 0 3 L 0
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause of the failure was found to be a defective zener diode in the millivolt con-
1 1 verter. The defective zener diode was replaced. Also an analyzer output lead was
1 2 discovered to have its insulation split very near the terminal lug and was repaired.
1 3 The unit was removed from the Action Statements of both Technical Specifications
1 4 3.3.3.6 and 3.6.4.1 on January 12, 1979 at 2300 hours when surveillance testing was
7 8 9 completed.

1 5 FACILITY STATUS POWER OTHER STATUS (30) METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)
E 28 0 7 S 29 NA B 31 Surveillance Test ST 5065.01
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

1 6 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)
Z 33 Z 34 NA NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

1 7 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39)
0 0 0 37 Z 38 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

1 8 PERSONNEL INJURIES NUMBER DESCRIPTION (41)
0 0 0 40 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43)
Z 42 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

2 0 PUBLICITY ISSUED DESCRIPTION (45)
N 34 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 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

7902060242

NRC USE ONLY

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-10

DATE OF EVENT: January 10, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Containment Hydrogen Analyzer Channel 2 inoperable

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2162, and Load (Gross MWE) = 707.

Description of Occurrence: On January 10, 1979, at 1750 hours, during performance of ST 5065.01, "Containment Hydrogen Vessel Atmosphere Hydrogen Analyzer Calibration Procedure", it was determined that Channel 2 (AIT-5028) was inoperable. The hydrogen analyzer would not indicate any concentration of hydrogen when the span gas was introduced. This occurrence placed the unit in the Action Statement of Technical Specifications 3.3.3.6 in Modes 1, 2, and 3, and 3.6.4.1 in Modes 1 and 2, which require the operability of both containment hydrogen analyzers. Both of these Action Statements require that the inoperable channel be restored to operable status within 30 days.

Channel 1 of the containment hydrogen analyzer was operable throughout the inoperability of Channel 2.

Designation of Apparent Cause of Occurrence: The cause of the failure of the containment hydrogen analyzer was found to be a defective zener diode in the millivolt converter which converts the analyzer output into a usable signal for display on the recorder.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. Containment Hydrogen Analyzer Channel 1 was operable during the period that Channel 2 was inoperable. In addition, the containment hydrogen analyzers are used only after a loss of coolant accident has occurred.

Corrective Action: The defective zener diode was replaced under Instrument and Control Work Order 129-79, and Containment Hydrogen Analyzer Channel 2 returned to service on January 12, 1979. During re-installation of the millivolt converter, an analyzer output lead was discovered to have its insulation split very near the terminal lug. This was also repaired under Work Order 129-79, but did not cause the failure of the zener diode, or the inoperability of the analyzer.

The unit was removed from the Action Statements of both Technical Specifications 3.3.3.6 and 3.6.4.1 on January 12, 1979 at 2300 hours when ST 5065.01, "Containment Vessel Atmosphere Hydrogen Analyzer Calibration Procedure" was successfully completed.

Failure Data: There have been no previously reported failures of the containment hydrogen analyzers.

LER #79-007