

CONTROL BLOCK: 

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 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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REPORT SOURCE

L	6	0	5	0	-	0	3	4	6	7	1	1	1	0	7	8	8	1	2	0	7	7	8	9
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60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

DOCKET NUMBER

EVENT DATE

REPORT DATE

On November 10, 1978 and on November 17, 1978, fluctuating signals from the absolute position indicator for Control Rod 4 of Group 3 caused asymmetric rod alarms. Absolute position indication for this rod was declared inoperable at each of these times, placing the unit in the Action Statement of Technical Specification 3.1.3.3. There was no danger to the health and safety of the public or unit personnel. Relative position indication, as well as zone reference indication for Rod 4, Group 3 was operable. (NP-33-78-135)

SYSTEM CODE I F 11		CAUSE CODE E 12		CAUSE SUBCODE A 13		COMPONENT CODE E L E C T R O N 14		COMP. SUBCODE Z 15		VALVE SUBCODE Z 16	
LER/RO REPORT NUMBER 7 8		EVENT YEAR 7 8		SEQUENTIAL REPORT NO. 1 1 3		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0	
ACTION TAKEN X 18		FUTURE ACTION C 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22		ATTACHMENT SUBMITTED Y 23	
NPRD-4 FORM SUB. 24		PRIME COMP. SUPPLIER A 25		COMPONENT MANUFACTURER B 3 6 5 26							

1 0 The cause of the events has been traced to a problem in the penetration area. On  
1 1 11/13/78, the connectors were dried and reconnected, and on 11/14/78, the API for Rod  
1 4, Group 3 returned to operability. A Facility Change Request has been prepared to  
1 3 reconnect the API cable to a different conductor in the penetration. This work is  
planned during the next unit shutdown scheduled on 12/9/78.

8 9  
FACILITY STATUS 10 POWER 11 OTHER STATUS 30  
1 5 E 28 12 13 NA 44  
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  
METHOD OF DISCOVERY 45 46 DISCOVERY DESCRIPTION 32  
A 31 Fluctuating Signals 32  
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  
ACTIVITY CONTENT 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  
RELEASED OF RELEASE 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 Z 33 Z 34 NA 44  
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  
AMOUNT OF ACTIVITY 35 44  
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  
NA 45 46 LOCATION OF RELEASE 36 47 48 49 50

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

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
1	2	3	4
0	0	0	40 NA

LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION  
1 9 Z (42) NA

PUBLICITY (45)  
ISSUED DESCRIPTION  
2 0 N 11 NA  
68 69

DVR 78-171 & 78-173 PREPARER Susan Kovach

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TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SUPPLEMENTAL INFORMATION FOR LER NP-33-78-135

DATE OF EVENT: November 10 and 17, 1978

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Absolute Position Indication for Group 3, Rod 4 inoperable

Conditions Prior to Occurrence: On November 10, 1978, the unit was in Mode 1, with Power (MWT) = 1354 and Load (MWE) = 446. On November 17, the unit was in Mode 1, with Power (MWT) = 2770 and Load (MWE) 923.

Description of Occurrence: On November 10, 1978 at 0425 hours and on November 17, 1978, at 0624 hours, fluctuating signals from the absolute position indicator for Control Rod 4 of Group 3 caused "asymmetric rod" alarms. Absolute position indication for this rod was declared inoperable at each of these times, placing the unit in the Action Statement of Technical Specification 3.1.3.3.

Technical Specification 3.1.3.3 states that all safety, regulating and axial power shaping control rod absolute position indicator channels and relative position indicator channels shall be operable and capable of determining the control rod positions within  $\pm 6.5\%$  while the unit is in Modes 1 and 2.

Designation of Apparent Cause of Occurrence: The apparent cause of the occurrences has been attributed to component failure in the penetration area. Work in the penetration area is scheduled for December 9, 1978, when access into containment will be permitted.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. Relative position indication, as well as zone reference indication for Rod 4 of Group 3 were operable during the period that the absolute position indication was inoperable.

Corrective Action: On November 13, under Maintenance Work Order 78-2648, Maintenance personnel inspected PI cable connections at the PI tube and at the reactor service structure bulkhead. A slight amount of moisture was found in the connector at the PI tube. The connector was dried and reconnected. On November 14, 1978, at 0215 hours, Surveillance Test ST 5031.03, "Control Rod Program Verification" was completed, and the absolute position indication for Rod 4, Group 3 declared operable. The unit was removed from the Action Statement of Technical Specification 3.1.3.3.

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On November 14, 1978, Facility Change Request 78-501 was prepared which requested the conductor for Rod 4, Group 3 to be reconnected to a different conductor in the containment penetration. Maintenance Work Order 78-2683 has been issued to implement this Facility Change Request. This work is scheduled for December 9, 1978, when access into containment will be permitted. A continuity check on all wires associated with the penetration module will also be performed at this time. The unit remains in the Action Statement as of December 4, 1978.

A new penetration module has been ordered and installation has been scheduled for the 1980 refueling outage.

Surveillance Requirement 4.1.3.3, as well as the requirements of the Action Statement were followed for each occurrence.

Failure Data: There have been no previous occurrences of absolute position indication inoperability for Control Rod 4, Group 3. There have been, however, previously reported occurrences of absolute position indicator inoperability due to component failure in the penetration area on Group 5, Rod 12. These were reported in Licensee Event Reports NP-33-78-02, NP-33-78-19, NP-33-78-26, and NP-33-78-38.

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