

LICENCEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL ROD GROUP 5, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

REPORT SOURCE: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
On 1/3/78, at 1430 hours, Control Rod Group 5, Rod 12, Absolute Position Indicator was declared inoperable. This placed the unit in the Action Statement of TS 3.1.3.3, which requires both relative and absolute position indication in Modes 1 and 2. At 0040 hours on 1/5/78, the unit entered Mode 3, removing the unit from the Action Statement of TS 3.1.3.3. The unit remained shutdown throughout the corrective action. There was no danger to the health and safety of the public or to unit personnel. The control rod never deviated from its intended position. (NP-33-78-02)

SYSTEM CODE: RB (11), CAUSE CODE: E (12), CAUSE SUBCODE: A (13), COMPONENT CODE: CKTBKR (14), COMP. SUBCODE: E (15), VALVE SUBCODE: Z (16), LER NO REPORT NUMBER: 713 (17), EVENT YEAR: 78 (18), SEQUENTIAL REPORT NO.: 002 (19), OCCURRENCE CODE: 03 (20), REPORT TYPE: L (21), REVISION NO.: 0 (22), ACTION TAKEN: A (23), EFFECT COMPLAINT: Z (24), SHUTDOWN METHOD: Z (25), HOURS: 000 (26), ATTACHMENT SUBMITTED: Y (27), IPRM4 FORMS: Y (28), PRIME COMP. SUPPLIER: N (29), COMPONENT MANUFACTURER: D150 (30)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
The apparent cause of this occurrence was due to a component failure of the Absolute Position Indicator Reed Switch. On January 7, 1978, the Absolute Position Indicator Tube containing the Reed Switch for Control Rod Group 5, Rod 12 was replaced.

FACILITY STATUS: E (31), POWER: 715 (32), OTHER STATUS: NA (33), METHOD OF DISCOVERY: Alarm (34), DISCOVERY DESCRIPTION: (35)

ACTIVITY CONTENT RELEASED: Z (36), AMOUNT OF ACTIVITY: NA (37), LOCATION OF RELEASE: NA (38)

PERSONNEL EXPOSURES NUMBER: 000 (39), TYPE: Z (40), DESCRIPTION: NA (41)

PERSONNEL INJURIES NUMBER: 000 (42), DESCRIPTION: NA (43)

LOSS OF OR DAMAGE TO FACILITY TYPE: NA (44), DESCRIPTION: NA (45)

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TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-78-02

DATES OF EVENT: January 3, 16, and 24, 1978

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Asymmetric Fault Indication on Absolute Position Indicator on Control Rod Group 5, Rod 12

Conditions Prior to Occurrence: The unit was in Modes 1, 2, or 3 with Power (MWT) ranging between 2100 - 0 and Load (MWE) ranging between 700 - 0.

Description of Occurrence: On January 3, 1978 at 1430 hours, Control Rod Group 5, Rod 12, Absolute Position Indicator was declared inoperable due to fluctuating signals from the Position Indicator causing an "Asymmetric Rod" Alarm. This placed the unit in the Action Statement of Technical Specification 3.1.3.3 which requires both relative and absolute position indication in Modes 1 and 2. The control rod position was verified at 100% withdrawal by using the zone reference lights. The rod position was verified at its 100% position at time of occurrence on January 4, 1978 at 0612 hours, 1326 hours and at 1825 hours in accordance with the Action Statement. At 0040 hours on January 5, 1978, the unit entered Mode 3, removing the unit from the Action Statement of Technical Specification 3.1.3.3

On January 7, 1978, the Absolute Position Indicator (API) tube containing reed switches for the Control Rod Group 5, Rod 12, was suspected to be the cause of this occurrence and was replaced under Maintenance Procedure MP 1401.08, which also verified operability of the new tube.

A subsequent event, however, occurred on January 16, 1978 at 0928 hours in which API indication briefly oscillated for Control Rod Group 5, Rod 12. The indication returned after the oscillations. Since the unit was at Mode 3 at the time of the occurrence, no Action Statements were entered.

Also at 1250 hours on January 24, 1978, the API for Control Rod Group 5, Rod 12 briefly oscillated three times within thirty minutes. At 1224 hours, the API for Control Rod Group 5, Rod 12 was placed in BYPASS which placed the unit in the Action Statement of Technical Specification 3.1.3.3. Control Rod Group 5, Rod 12 position was verified by the zone reference lights at approximately 1730 hours in accordance with the Action Statement.

Designation of Apparent Cause of Occurrence: The apparent cause of this occurrence was a loose connector plug (P11 of Cable CCC RD 111A) possibly due to incorrect initial installation.

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Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. The control rod never deviated from its intended position. Only the rod position indication was defective.

Corrective Action: On January 24, 1978 at 1224 hours, cable connections in the API string for Control Rod Group 5 Rod 12 were inspected. Connector Plug P11 of Cable CCCR111A within Control Rod Drive System Analog Interface Cabinet C4801T was removed, inspected and retightened after it was initially found slightly loose.

At 1732 hours on January 24, 1978, the API and Relative Position Indicator were verified operable for Control Rod Group 5, Rod 12, which removed the unit from the Action Statement of Technical Specification 3.1.3.3.

Failure Data: One previous reported failure of Control Rod Drive connectors has occurred. The failure was, however, within a Control Room Cabinet. See Licensee Event Report NP-33-77-58.

LER #78-002

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