

LICENSEE EVENT REPORT

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

0 0 H D B S 1 0 0 - 0 0 N P F - 0 3 4 1 1 1 1 4

0 1 REPORT SOURCE L 0 5 0 - 0 3 4 6 1 2 0 1 7 7 1 2 2 7 7 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
On two occasions, 12/1/77 at 1455 hours and 12/5/77 at 0115 hours, Source Range Neutron Detector NI-1's indication dropped to zero and returned to normal operation/ indication by itself. Both occurrences placed the unit in Action Statement 5 of Technical Specification 3.3.1.1. There was no danger to the health and safety of the public or unit personnel. The redundant Source Range Detector NI-2 was operational and in service throughout these occurrences. (NP-33-77-100)

0 9 SYSTEM CODE I D 11 CAUSE CODE E 12 CAUSE SUBCODE X 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE E 15 VALVE SUBCODE Z 16
17 LER/RO REPORT NUMBER 7 7 21 22 23 24 26 27 28 29 30 31 32 REVISION NO. 0
ACTION TAKEN C 18 FUTURE ACTION X 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER Z Z Z Z 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
1 0 After the first failure, the detector was replaced and ST 5091.01 "Source Range Func-
1 1 tional Test" was performed. After the second failure and return to normal, ST 5091.01
1 2 was again performed. Both performances of ST 5091.01 removed the unit from the
1 3 Action Statement of Technical Specification 3.3.1.1. Further troubleshooting is
1 4 being performed, but is complicated by the intermittent nature of the failure.

1 5 FACILITY STATUS B 28 % POWER 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator Observation 32

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

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

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41

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

2 0 PUBLICITY ISSUED N 44 DESCRIPTION NA 45

8002040733

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-77-100

DATE OF EVENT: December 1, 1977 and December 5, 1977

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Source Range Detector, NI-1's indication dropped to zero.

Conditions Prior to Occurrence: On December 1, 1977 at 1455 hours, Source Range Neutron Detector NI-1's indication dropped to zero. The Control Rod Drive Trip Breakers were in the closed position, and the rods were capable of withdrawal. This occurrence placed the unit in Action Statement 5 of Technical Specification 3.3.1.1, which requires two Source Range Detectors in Mode 3 with the Control Rod Drive System capable of rod withdrawal. An identical occurrence took place on December 5, 1977 at 0115 hours. Both occurrences were discovered by Operations personnel observing the drop in NI-1 indication.

Designation of Apparent Cause of Occurrence: To date, each time NI-1's indication was lost, no apparent cause could be determined prior to the indication returning. Just prior to NI-1 failing on December 1, 1977, the Instrument and Control personnel had just finished replacing the preamplifier. It was then decided to replace the Source Range Neutron Detector. This was completed on December 3, 1977, and then on December 5, it failed again.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. The redundant Source Range Detector NI-2 was in service and operational throughout the occurrences. The thermal power level was maintained at less than 10^{-10} amps on the intermediate flux range instrumentation.

Corrective Action: After the failure on December 1, the detector was replaced. Upon completion, ST 5091.01, the Source Range Functional Test, was performed and completed on December 3, 1977 at 0713 hours. After the failure on December 5 and the subsequent return of the indication to normal, ST 5091.01 was again performed at 1800 hours on December 5. Both performances of the surveillance test removed the unit from the Action Statement of Technical Specification 3.3.1.1.

Failure Data: This occurrence is a repetitive one, however, the exact cause of this event is, as of yet, unknown.

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-77-100

Rev. 1
1/5/78

DATES OF EVENT: December 1, 1977 and December 5, 1977

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Source Range Detector, NI-1's indication dropped to zero.

Conditions Prior to Occurrence: The unit was in Mode 3, with Power (MWT) = 0, and Load (MWE) = 0.

Description of Occurrence: On December 1, 1977, at 1455 hours, Source Range Neutron Detector NI-1's indication dropped to zero. The Control Rod Drive Trip Breakers were in the closed position, and the rods were capable of withdrawal. This occurrence placed the unit in Action Statement 5 of Technical Specification 3.3.1.1, which requires two Source Range Detectors in Mode 3 with the Control Rod Drive System capable of rod withdrawal. An identical occurrence took place on December 5, 1977 at 0115 hours. Both occurrences were discovered by Operations personnel observing the drop in NI-1 indication.

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