

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 0 H D B S 1 2 0 0 - 0 0 N P F - 0 3 3 4 1 1 1 1 4 5

LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T 01 REPORT SOURCE L 6 0 5 0 - 0 3 4 6 7 0 8 1 1 7 9 0 9 0 6 7 9 9

REPORT SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 On August 11, 1979 at 1430 hours, SFAS Channel 2 Containment Radiation Detector RE 2005

03 spiked (tripping the bistable) and returned to normal. RE 2005 was declared inopera-

04 ble, and the unit was placed in the Action Statement of T.S. 3.3.2.1.b.9 which requires

05 all four instrument strings operable in all modes. The SFAS Channel 2 Containment

06 Radiation Bistable was left in the tripped state. There was no danger to the health

07 and safety of the public or to station personnel. The radiation monitoring instrument

08 strings associated with the other three SFAS channels were operable. (NP-33-79-103)

09 SYSTEM CODE I B 11 CAUSE CODE E 12 CAUSE SUBCODE E 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE E 15 VALVE SUBCODE Z 16

17 LER/RO REPORT NUMBER 7 9 EVENT YEAR 7 9 SEQUENTIAL REPORT NO. 0 8 9 OCCURRENCE CODE 0 3 REPORT TYPE L REVISION NO. 0

ACTION TAKEN C 18 FUTURE ACTION F 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER V 1 1 5 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 The spiking was attributed to vibration in the area of the detector which causes flex-

11 ing of the ion chamber connectors to the high and low range boards. Victoreen indi-

12 cates this can generate a small voltage which would cause the spiking. A new detector

13 was calibrated and installed per MWO-IC-383-79 on August 15, 1979, and the unit re-

14 moved from the Action Statement. Investigations are continuing.

15 FACILITY STATUS E 28 % POWER 1 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator observation 32

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

17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39

18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41

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

20 PUBLICITY ISSUED N 44 NA DESCRIPTION NA 45

837353
7909110 541
S

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-103

DATE OF EVENT: August 11, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Safety Features Actuation System (SFAS) Channel 2
Containment Radiation Detector RE 2005 spiked

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2758,
and Load (Gross MWE) = 914.

Description of Occurrence: On August 11, 1979 at 1430 hours, SFAS Channel 2 Containment Radiation Detector RE 2005 spiked (tripping the SFAS Channel 2 Containment Radiation Bistable) and returned to normal. Several spikes occurred in the fifteen minutes prior to the channel trip. Upon receiving the trip, RE 2005 was declared inoperable. This placed the unit in the Action Statement of Technical Specification 3.3.2.1.b9 which requires the operability of all four SFAS containment radiation instrument strings in all modes. The SFAS Channel 2 containment radiation bistable was left in the tripped state as required by the Action Statement. The containment radiation instrument strings associated with the other three SFAS channels were operable, meeting the minimum operational requirements.

Designation of Apparent Cause of Occurrence: The tripping of SFAS Channel 2 was caused by the spiking of Containment Radiation Detector RE 2005. The cause of the spiking has been attributed to vibration in the area of the detector which causes flexing of the ion chamber connectors to the high and low range boards. Victoreen has indicated this flexing can generate a small voltage which would cause the spiking problem; testing in our Instrument and Control shop substantiates this.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The containment radiation monitoring instrument strings associated with the other three SFAS channels were operable. RE 2005 failed in the high (safe) direction.

Corrective Action: A new detector was calibrated and installed per MWO-IC-383-79. SFAS Channel 2 (Containment Radiation) was declared operable at 1750 hours on August 15, 1979, by successful performance of Surveillance Test ST 5031.01 on RE 2005 which removed the unit from the Action Statement. Toledo Edison and Victoreen are investigating the addition of vibration dampening material in the detector. This is the first detector to be moved from its original high temperature environment to stop the failures caused by high temperature. Other detectors will not be moved until this vibration problem is resolved.

LER #79-089

937260

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-103

PAGE 2

Failure Data: Previous failures of RE 2005 have been reported in Licensee Event Report NP-33-78-140 and NP-33-79-92.

LER #79-089

937361