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60 61 DOCKET NUMBER 62 69 EVENT DATE 74 75 REPORT DATE 80

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

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

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

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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

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

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

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

moved from the Action Statement. Investigations are continuing.

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)

RELEASED UNDER E.O. 14176

9 10 11 44

33 34 NA

45 80

PERSONNEL INJURIES	NUMBER	DESCRIPTION
1	1	41

9 11 12 NA 7009110 541 80

TYPE	DESCRIPTION
Z (42)	NA

9-128 NAME OF PREPARER David T. Eldred PHONE: 419-259-5000, Ext. 237

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