

## SPECIAL REPORT

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

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LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 88

CONT

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DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

(NP-40-83-02) On 6/20/83, fire detection zone Reactor Coolant Pump (RCP) 1-2, containment level 603', went into alarm and could not be reset. This was determined to be a false alarm since the redundant fire detector in the zone was not in alarm, and no equipment failures were indicated in the alarmed zone. This Special Report is being submitted per Action Statement (b) of T.S. 3.3.3.8. There was no danger to the health and safety of the public or station personnel. Additional smoke detectors in this fire detection zone were operable.

SYSTEM CODE A B (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)  
EVENT YEAR 8 3 (17) SEQUENTIAL REPORT NO. 0 3 3 (18) OCCURRENCE CODE 0 3 (19) REPORT TYPE X (20) REVISION NO. 1 (21)  
ACTION TAKEN C (22) FUTURE ACTION Z (23) EFFECT ON PLANT Z (24) SHUTDOWN METHOD Z (25) HOURS 0 0 0 (26) ATTACHMENT SUBMITTED Y (27) NRC-4 FORM SUB. N (28) PRIME COMP. SUPPLIER Z (29) COMPONENT MANUFACTURER Z 9 9 9 (30)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The cause of the alarm was found to be a problem with the detector string. Under MWO 83-3697, which was completed 8/6/83, the failed smoke detector had been causing fire detection zone RCP 1-2 to continuously alarm, was replaced. Verification that the alarm cleared at fire detection panel C4720A was made, returning fire detection zone RCP 1-2 to operable status on 8/6/83.

FACILITY STATUS E (28) % POWER 0 9 1 (29) OTHER STATUS NA (30) METHOD OF DISCOVERY A (31) DISCOVERY DESCRIPTION Operator observation (32)  
ACTIVITY CONTENT 2 (33) Z (34) NA (35) AMOUNT OF ACTIVITY NA (36) LOCATION OF RELEASE NA (37)

PERSONNEL EXPOSURES NUMBER 0 0 0 (38) TYPE Z (39) DESCRIPTION NA (40)

PERSONNEL INJURIES NUMBER 0 0 0 (41) DESCRIPTION NA (42)

LOSS OF OR DAMAGE TO FACILITY TYPE Z (43) DESCRIPTION NA (44)

PUBLICITY NUMBER 0 0 0 (45) DESCRIPTION NA (46)

DVR 83-078

NAME OF PREPARER

Chris Momenee

PHONE

(419) 259-5000, Ext. 713

NRC USE ONLY

TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SPECIAL REPORT: NP-40-83-02

DATE OF EVENT: June 20, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Fire Detection Zone (FDZ) Reactor Coolant Pump (RCP) 1-2, elevation 603', went into alarm

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWt) = 2526 and Load (Gross MWe) = 830.

Description of Occurrence: On June 20, 1983, FDZ RCP 1-2, containment level 603', went into alarm and could not be reset. The Shift Supervisor determined that this alarm was false since the redundant fire detector in that zone was not in alarm, and no equipment failures were indicated in the alarmed zone.

The inoperability of smoke detectors in FDZ RCP 1-2 placed the unit in action statement (b) of Technical Specification 3.3.3.8, which requires restoring the inoperable instruments to operable status within 14 days, or in lieu of any other report required by Technical Specification 6.9.1 prepare and submit a Special Report to the Commission pursuant to Technical Specification 6.9.2 within the next 30 days.

Since FDZ RCP 1-2 was inaccessible due to being located in containment, Action Statement (a) of Technical Specification 3.3.3.8 was not applicable since it requires the establishment of a fire watch patrol within one hour to inspect only accessible zones. However, at the time FDZ RCP 1-2 was determined to be inoperable, an hourly fire watch patrol was established on the fire detection panel C4720A.

Designation of Apparent Cause of Occurrence: It was determined that the fault was in the detector string. Since FDZ RCP 1-2 was inaccessible due to being located in containment, investigation could not begin until the 1983 Refueling Outage, which began July 25, 1983. Under Maintenance Work Order (MWO) 83-3697, which was completed August 6, 1983, it was determined that a failed smoke detector was causing FDZ RCP 1-2 to continuously alarm.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The redundant smoke detectors in FDZ RCP 1-2 were operable and would have provide adequate warning in the event of a fire in the area.

Corrective Action: Maintenance Work Order (MWO) 83-3696 was performed to temporarily clear the alarm from the fire detection panel. The failed smoke detector was replaced under MWO 83-3639. Verification that the alarm cleared at fire detection panel C4720A was made, returning FDZ RCP 1-2 to operable status August 6, 1983.

TOLEDO EDISON COMPANY  
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Failure Data: There has been one other failure of a fire detection zone which was reported in Special Report NP-40-83-01 (83-025).

LER #83-033



September 22, 1983

Log No. K83-1325  
File: RR 2 (NP-40-83-02)

Docket No. 50-346  
License No. NPF-3

Mr. James G. Keppler  
Regional Director, Region III  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

Enclosed is one copy of Revision 1 to Special Report 83-033, including revised supplemental information pages. The revisions to the report are indicated by a "1" in the left margin of each page.

Please destroy your previous copy of this report and replace with the attached revision.

Yours truly,

Terry D. Murray  
Station Superintendent  
Davis-Besse Nuclear Power Station

TDM/ljk

Enclosure

cc: Mr. Walt Rogers  
NRC Resident Inspector  
Encl: 1 copy

SEP 28 1983

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