

LICENSEE EVENT REPORT

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

0 1 O H D B S L 2 0 0 - 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

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0 1 REPORT SOURCE L 6 0 5 0 0 0 3 4 6 7 1 1 2 0 8 3 8 1 2 2 0 8 3 9
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 (NP-33-83-94) On 11/20/83 at 1725 hours, Operations personnel saw NI-5, neutron flux
0 3 detector power range, take a step change in flux downward by 2% and imbalance changed
0 4 from -4% to -14%, resulting in a flux/delta flux/flow trip of Reactor Protection Sys-
0 5 tem (RPS) Channel 2. Operations reset Channel 2, however, NI-5 indication was still
0 6 reading low. Channel 2 was tripped and declared inoperable, placing the unit in Tech-
0 7 nical Specification 3.3.1.1. The redundant NI's were operable.

0 8
7 8 9 80

0 9 SYSTEM CODE I A 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE Z Z Z Z Z Z 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
7 8 9 10 11 12 13 14 15 16 17 18 19 20
17 LER/RO REPORT NUMBER 8 3 21 22 EVENT YEAR 23 24 SEQUENTIAL REPORT NO. 25 26 OCCURRENCE CODE 27 28 REPORT TYPE 29 30 REVISION NO. 31 32
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
X 18 Z 19 Z 20 Z 21 0 0 0 0 22 Y 23 Y 24 Z 25 Z 9 9 9 26
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Through the investigation that followed, the step change in NI-5, and the additional
1 1 recorder information obtained, the cause of the step change in NI-5 was not able to be
1 2 determined. RPS Power Range Calibration ST 5030.11 was performed on NI-5 and remained
1 3 constant with all other NI indications. RPS Monthly Functional Test ST 5030.02 was
1 4 performed and NI-5 declared operable at 1615 hours on 11/21/83.

1 5 FACILITY STATUS E 28 1 0 0 29 NA OTHER STATUS 30 METHOD OF DISCOVERY A 31 Operator observation 32
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 6 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 NA AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 7 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 8 PERSONNEL INJURIES NUMBER DESCRIPTION 41
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION 43
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

2 0 PUBLICITY ISSUED DESCRIPTION 45
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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NRC USE ONLY

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-94

DATE OF EVENT: November 20, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Reactor Protection System (RPS) Channel 2,
NI-5 failed low

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWt)
= 2772 and Load (Gross MWe) = 902.

Description of Occurrence: On November 20, 1983 at 1725 hours, Operations personnel saw NI-5 take a step change in flux downward by 2% and imbalance changed from -4% to -14% very quickly, resulting in flux/delta flux/flow trip of RPS Channel 2. Operations reset Channel 2 at 1728 hours, however, the NI-5 indication was still reading low.

Channel 2 of the RPS was tripped at 1820 hours and declared inoperable, placing the unit in Technical Specification 3.3.1.1 Table 3.3-1, Action Statement 2.

Designation of Apparent Cause of Occurrence: The cause of this occurrence is unknown. Operations personnel saw NI-5 take a step change in flux downward by 2%. Through the investigation that followed and the additional recorder information obtained, the cause of the step change in NI-5 was not able to be determined.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The redundant NI's, NI-6, NI-7, and NI-8, were operable and were not affected by this occurrence.

Corrective Action: A maintenance work order (MWO) was issued to investigate the problem. Recalibration of the upper and lower linear amplifier modules was performed. No problems were detected while investigating this failure. Surveillance Test ST 5030.11, RPS Power Range Calibration, was performed on NI-5 at 1825 hours on November 20, 1983, and NI-5 remained constant with all other NI indications. The applicable section (Power Range Section 6.5) of Surveillance Test ST 5030.02, RPS Monthly Functional Test, was performed to prove operability. NI-5 was declared operable at 1615 hours on November 21, 1983. A recorder was installed to obtain additional information on the output signals of the upper and lower linear amplifiers. The recorder was left installed for six days, however, no further indication of problems was noted.

Failure Data: There have been no previous similar occurrences.

LER #83-066

DmB



December 20, 1983

Log No. K83-1756
File: RR2 (NP-33-83-94)

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

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

Dear Mr. Keppler:

LER No. 83-066
Davis-Besse Nuclear Power Station Unit 1
Date of Occurrence: November 20, 1983

Enclosed are three copies of Licensee Event Report 83-066 which are being submitted in accordance with Technical Specification 6.9 to provide 30 day written notification of the subject occurrence.

Yours truly,

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

TDM/ljk

Enclosures

cc: Mr. Richard DeYoung, Director
Office of Inspection and Enforcement
Encl: 30 copies

Mr. Norman Haller, Director
Office of Management and Program Analysis
Encl: 3 copies

Mr. Walt Rogers
NRC Resident Inspector
Encl: 1 copy

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