NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

01 LICENSEE CODE: O H D B S 1 (2) LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) LICENSE TYPE: 4 1 1 1 1 (4) CAT (5)

CON'T 01 REPORT SOURCE: L (6) DOCKET NUMBER: 0 5 0 0 0 3 4 6 (7) EVENT DATE: 0 6 1 2 8 3 (8) REPORT DATE: 0 7 1 2 8 3 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 (NP-33-83-38) On 6/12/83 during the performance of the Main Turbine Steam Valves Per-
03 iodic Test, Control Room personnel heard a main steam safety valve (MSSV) on Steam
04 Generator (SG) 1-1 header actuate. Local observations of the MSSVs indicated MSSV
05 SP17B1 as the valve that had lifted. SP17B1 was declared inoperable, placing the unit
06 in the action statement of T.S. 3.7.1.1. There was no danger to the health and safety
07 of the public or station personnel. The inoperable MSSV performed its intended func-
08 tion of relieving pressure, only at a more conservative setpoint.

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	C C (11)	X (12)	Z (13)	V A L V E X (14)	P (15)	B (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 3	—	0 2 9	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
Z (18)	X (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	N (25)	D 2 4 3 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of the MSSV lifting early remains unknown. All MSSVs will be tested per
11 ST 5070.01, Main Steam Safety Valve Setpoint Surveillance Test. The results of this
12 test will identify any valves with a low setpoint, and corrective action will then be
13 taken. Toledo Edison personnel will continue to investigate possible causes of this
14 event.

15 FACILITY STATUS: E (28) % POWER: 0 9 1 (29) OTHER STATUS (30): NA METHOD OF DISCOVERY: A (31) DISCOVERY DESCRIPTION (32): Operator observation

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

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

PERSONNEL INJURIES
18 NUMBER: 0 0 0 (40) DESCRIPTION (41): NA

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

PUBLICITY
20 ISSUED: N (44) DESCRIPTION (45): NA

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NRC USE ONLY

DVR 83-072

NAME OF PREPARER: John O'Neill PHONE: 419-259-5000, Ext. 252

GPO 917-926

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-38

DATE OF EVENT: June 12, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Main Steam Safety Valve (MSSV) Setpoint Low

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWt) = 2532 and Load (Gross MWe) = 823.

Description of Occurrence: On June 12, 1983, during the performance of PT 5193.01, "Main Turbine Steam Valves Periodic Test", Control Room personnel heard a MSSV on Steam Generator 1-1 header actuate. Although it could not be positively determined which valve lifted, local observations of the safety valves indicated valve SP17B1 as the valve that had lifted. After reviewing the computer data from the transient monitor, it was determined that a safety valve had lifted outside of the lowest allowable setpoint (1039.5). At 1240 hours on June 12, 1983, MSSV SP17B1 was declared inoperable, placing the unit in the action statement of Technical Specification 3.7.7.1. By 1555 hours, the high flux trip setpoints were reduced to 99.5% of rated thermal power as required by the action statement.

Designation of Apparent Cause of Occurrence: The safety valve lifted due to an escalation in steam generation pressure during the performance of Periodic Test PT 5193.01. However, since pressure was below the minimum allowable setpoint, no valve should have lifted. The cause of the valve lifting early remains unknown at this time.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. All remaining safety valves were operable during the event. The inoperable MSSV performed its intended function of relieving secondary system pressure, only it lifted at a more conservative setpoint than its designed setpoint.

Corrective Action: All MSSvs will be tested per ST 5070.01, "Main Steam Safety Valve Setpoint Surveillance Test" during the upcoming refueling outage. The results will identify any valve with a low setpoint. Corrective action will then be taken. Toledo Edison personnel will continue to investigate possible causes of the event.

Failure Data: Previous occurrences of a MSSV lifting too early during a power swing or trip have been reported in Licensee Event Reports NP-33-79-23 (79-018), NP-33-79-34 (79-032), NP-33-81-39 (81-034), and NP-33-81-57 (81-045).

LER #83-029

TOLEDO EDISON

July 12, 1983

Log No. K83-1001
File: RR 2 (NP-33-83-38)

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:

Reportable Occurrence 83-029
Davis-Besse Nuclear Power Station Unit 1
Date of Occurrence: June 12, 1983

Enclosed are three copies of Licensee Event Report 83-029 including supplemental information sheet which is being submitted in accordance with Technical Specification 6.9 to provide 30 day written notification of the subject occurrence.

Yours truly,

Terry D. Murray/SNQ

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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JUL 15 1983