NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

01 | O H D B S 1 (2) | Ø Ø - Ø Ø Ø Ø Ø - Ø Ø (3) | 4 1 1 1 1 (4) | | (5)
LICENSEE CODE (9–14) | LICENSE NUMBER (15–25) | LICENSE TYPE (26–30) | CAT (57–58)

CON'T 01 | REPORT SOURCE L (6) | Ø 5 Ø Ø Ø 3 4 6 (7) | Ø 3 Ø 4 8 3 (8) | Ø 3 3 1 8 3 (9)
DOCKET NUMBER (61–68) | EVENT DATE (69–74) | REPORT DATE (75–80)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 (NP-33-83-16) On 3/4/83 at 1120 hours, while performing the Emergency Diesel Generator
03 (EDG) Monthly Surveillance Test ST 5081.01 on EDG 1-1, the generator output became un-
04 stable with oscillations in KW, KVARs, and PF. EDG 1-1 was declared inoperable,
05 placing the unit in the action statement of Technical Specification 3.8.1.1. During
06 subsequent testing the generator output breaker failed to close. There was no danger
07 to the health and safety of the public or station personnel. The remaining A.C.
08 sources remained operable during the time of this occurrence.

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
09	E B (11)	E (12)	X (13)	G E N E R A (14)	D (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 3	—	Ø 1 5	/	Ø 3	L	—	Ø

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
X (18)	X (19)	Z (20)	Z (21)	Ø Ø Ø Ø	Y (23)	Y (24)	N (25)	P 3 1 8 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The exact cause could not be determined but was isolated to the electronic governor
11 control system. Generator output breaker was changed and tested. The failed breaker
12 had a worn rack-in mechanism which prevented the breaker from closing. Toledo Edison
13 is presently awaiting assistance from Westinghouse to repair the breaker.
14 ST 5081.01 was performed and EDG 1-1 was declared operable at 1540 hours on 3/5/83.

15 | FACILITY STATUS E (28) | % POWER Ø 9 9 (29) | OTHER STATUS (30) NA | METHOD OF DISCOVERY B (31) | DISCOVERY DESCRIPTION (32) During performance of ST 5081.01

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

PERSONNEL EXPOSURES
17 | NUMBER Ø Ø Ø (37) | TYPE Z (38) | DESCRIPTION (39) NA

PERSONNEL INJURIES
18 | NUMBER Ø Ø Ø (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

NRC USE ONLY

DVR 83-029

NAME OF PREPARER Ron Uebbing

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TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-16

DATE OF EVENT: March 4, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Inoperable Emergency Diesel Generator (EDG) due to breaker failure and diesel speed instability

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2737 and Load (Gross MWE) = 907.

Description of Occurrence: At 1120 hours on March 4, 1983, while performing the Diesel Generator (DG) #1 Monthly Surveillance Test ST 5081.01, the generator output became unstable with oscillations in KW, KVARS, AND PF and was declared inoperable. In the process of investigating these oscillations, the generator output breaker failed to operate one time and required a spare breaker to be installed. With the one EDG inoperable, the station was placed in the action statement of Technical Specification 3.8.1.1.

The requirements to demonstrate the remaining AC power sources operable per Surveillance Requirements 4.8.1.1.1.a and 4.8.1.1.2.a.4 were completed at 1149 hours and once every eight hours until DG #1 was again demonstrated operable at 1540 hours on March 5, 1983.

Designation of Apparent Cause of Occurrence: The generator output breaker problem was due to a component failure. The breaker failed to operate because its rack-in mechanism was worn, which allowed the breaker to move enough in its cubicle to open the rack-in interlock in its control circuitry, preventing the breaker from closing again.

The generator oscillation problem could not be determined but was isolated to the electronic governor control system.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The remaining AC sources remained operable during this time frame.

Corrective Action: Toledo Edison is presently awaiting assistance from Westinghouse to repair the breaker.

The oscillation problem investigation included operating the DG with the electric governor removed from service and the hydraulic governor installed. The hydraulic governor controlled speed and load satisfactorily. The vendor representative was contacted and arrived on site on March 5, 1983. The electronic governor was checked internally to ensure that there were no loose parts. The control switches, electrical connectors, and linkages were also checked, however, no problems were found. The diesel generator was repeatedly tested satisfactorily, and Surveillance Test ST 5081.01 was

successfully performed, and EDG 1-1 was declared operable at 1540 hours on March 5, 1983, removing the unit from the action statement. Surveillance Test ST 5081.01 is presently being performed at twice the required frequency to ensure operability of the emergency diesel generators.

Failure Data: A previous similar occurrence involving the failure of the generator breaker to close was reported in Licensee Event Report NP-33-78-74 (78-062).

Previous similar occurrences involving oscillations in the generator output were reported in Licensee Event Reports NP-33-79-146 (79-126) and NP-33-78-58 (78-049).

LER #83-015