

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

CON'T

0	1
7	8

REPORT SOURCE

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

(NP-33-83-21) On 5/13/83 it was determined that an event which occurred on 4/13/83 was reportable. At 0630 hours on 4/13/83, Emergency Diesel Generator (EDG) 1-1 was declared inoperable for maintenance, placing the unit in Action Statement (a) of T.S.

3.8.1.1. At 1400 hours on 4/13/83 while performing the EDG Monthly Surveillance Test on EDG 1-1 to verify operability, the generator output became erratic in response to the operator's speed change inputs. There was no danger to the public or station personnel. The remaining AC sources remained operable during this occurrence.

0 9		SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE				
7	8	E	B	11	A	12	C	13	G	E	N	E	R	A	14	D	15	Z	16	
		9	10		11	12	13	14	15	16	17	18	19	20						
(17) LER/RO REPORT NUMBER		EVENT YEAR				SEQUENTIAL REPORT NO.				OCCURRENCE CODE		REPORT TYPE				REVISION NO.				
21		8	3	23		0 2 2		27		0 3		L		31		32				
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER				
X	18	H	19	Z	20	Z	21	0 0 0	22	Y	23	Y	24	N	25	P	3	1	8	26
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53

1 0 The cause was a loose connection on the electronic governor control box. Maintenance
1 1 personnel had cross threaded the terminal screw which prevented the connection from
1 2 tightening properly. The loose connection was tightened properly and EDG 1-1 was
1 3 repeatedly tested satisfactorily. EDG 1-1 was returned to operable status at 2215
1 4 hours on 4/14/83, removing the unit from the action statement.

7	8	9	FACILITY STATUS										% POWER										OTHER STATUS										METHOD OF DISCOVERY										DISCOVERY DESCRIPTION										80
1	5	E	28	0	9	9	29	NA	30	B	31	During performance of ST 5081.01																		32	80																						
7	8	9	ACTIVITY CONTENT										AMOUNT OF ACTIVITY										LOCATION OF RELEASE										80																				
1	6	Z	33	Z	34	NA	35	NA	36																			80																									
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
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1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
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1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY										80																			
7	8	9	PERSONNEL EXPOSURES										PERSONNEL INJURIES										LOSS OF OR DAMAGE TO FACILITY										PUBLICITY										80										
1	7	0	0	0	37	Z	38	NA	39	0	0	0	40	NA	41	Z	42	NA	43	N	44	NA	45	NRC USE ONLY</																													

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-21

DATE OF EVENT: May 13, 1983

FACILITY: Davis-Besse Unit 1

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

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT)
= 2733 and Load (Gross MWE) = 910.

Description of Occurrence: On May 13, 1983, an event which occurred on April 13, 1983, was determined to be reportable. At 0630 hours on April 13, 1983, EDG 1-1 was declared inoperable for maintenance, placing the unit in Action Statement (a) of Technical Specification 3.8.1.1. At 1440 hours on April 13, 1983, while performing the EDG Monthly Surveillance Test, ST 5081.01 on EDG 1-1 to verify operability, the generator output became erratic in response to the operators speed change inputs. EDG 1-1 remained in the inoperable status.

At the time of this occurrence, it was not considered to be reportable since the hydraulic governor will assume control if the electronic governor fails.

On May 13, 1983, after a consultation with the vendor, it was determined that in the event of a safety actuation signal due to the loss of offsite power concurrent with a LOCA, this mode of failure could have caused oscillations in frequency and engine speed when the diesel generator was being operated in the isocronous mode and could have prevented EDG 1-1 from supplying sufficient power to the Safety Features Actuation System (SFAS) pumps such that the required flowrates might not have been achieved.

This occurrence is being reported under Technical Specification 6.9.1.9.b for conditions leading to operation in a degraded mode permitted by a limiting condition for operation (one inoperable Emergency Diesel Generator, EDG 1-1, as permitted by Technical Specification 3.8.1.1, Action Statement a).

Designation of Apparent Cause of Occurrence: The erratic generator output was attributed to an error made by the Maintenance personnel who installed the electronic governor control box on March 4, 1983. A loose connection was found on the electronic governor control box. The Maintenance personnel had cross threaded the terminal screw which then prevented the connection from tightening properly.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The remaining AC sources including EDG 1-2 were demonstrated to be operable per Technical Specification Surveil-

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-21
PAGE 2

lance Requirement 4.8.1.1a and 4.8.1.1.2a.4 until EDG 1-1 was returned to operable status at 2215 hours on April 14, 1983.

Corrective Action: The oscillation problem investigation included operating the EDG with the electronic governor removed from service and the backup hydraulic governor controlling. The hydraulic governor controlled speed and load satisfactorily. The vendor representative was contacted and arrived on site on April 14, 1983.

The hydraulic governor system and all linkages were checked, however, no problems were found. The electronic governor system, including the motor operated potentiometer, was checked for loose connections and proper response. These checks found a loose connection on the electronic governor control box. The loose connection was then tightened properly. The diesel generator was repeatedly tested satisfactorily, and Surveillance Test ST 5081.01 was successfully performed. EDG #1 was returned to operable status 2215 hours on April 14, 1983, removing the unit from the action statement.

The Maintenance personnel involved were counseled on the requirement to check tightness of electrical connections during maintenance of equipment.

Failure Data: Previous similar occurrences involving oscillations in the generator output were reported in Licensee Event Reports NP-33-79-146 (79-126), NP-33-78-58 (78-049), and NP-33-83-16 (83-015).

Prior to initial startup, several occurrences have been reported involving inoperable equipment due to a personnel error in tightening connections. However, since that time, no similar incidents have occurred.

LER #83-022



June 6, 1983

Log No. K83-826
File: RR2 (NP-33-83-21)

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. 83-022
Davis-Besse Nuclear Power Station Unit 1
Date of Occurrence: May 13, 1983

Enclosed are three copies of Licensee Event Report 83-022 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. Tom Peebles
NRC Resident Inspector
Encl: 1 copy

JUN 9 1983

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