

LICENSEE EVENT REPORT

50-285/76-26

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME														LICENSE NUMBER														LICENSE TYPE										EVENT TYPE			
01	N	E	F	C	S	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	3																	
7	8	9	14	15	25	26	30	31	32																																
01		CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER				EVENT DATE				REPORT DATE																											
01	CON'T			L	L	0	5	0	-	0	2	8	5	0	8	1	5	7	6	0	8	3	0	7	6																
7	8	57	58	59	60	61	68	69	74	75	80																														

EVENT DESCRIPTION

02	During a normal shutdown of diesel generator DG-2 a DC Bus #2 ground alarm annunciated																							
7	8	9																						80
03	in the Control Room and smoke was observed coming from DG-2 governor motor enclosure.																							
7	8	9																						80
04	DG-2 was run and loaded to prove operability. (LER 50-285/76-26)																							
7	8	9																						80
05																								
7	8	9																						80
06																								
7	8	9																						80

SYSTEM CODE				CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
07	E	E	E	E	E	E	N	G	I	N	E	A	X	X	X	X	N
7	8	9	10	11	12	17	43	44	47	48							

CAUSE DESCRIPTION

08	A Bodine Electric Co. type NSE-11R, 115VAC-DC, 1/80 H.P., 5000 RPM governor motor																							
7	8	9																						80
09	armature internally faulted resulting in an open armature winding. The governor																							
7	8	9																						80
10	motor armature was replaced. The pin and socket connector for the (continued)																							
7	8	9																						80

FACILITY STATUS		% POWER		OTHER STATUS				METHOD OF DISCOVERY		DISCOVERY DESCRIPTION													
11	E	0	9	8	NA	A	NA																
7	8	9	10	12	13	44	45	46															
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY				LOCATION OF RELEASE															
12	Z	Z	NA	NA	NA	NA																	
7	8	9	10	11	44	45																	

PERSONNEL EXPOSURES

NUMBER		TYPE		DESCRIPTION	
13	0	0	0	Z	NA
7	8	9	11	12	13

PERSONNEL INJURIES

NUMBER		DESCRIPTION		
14	0	0	0	NA
7	8	9	11	12

OFFSITE CONSEQUENCES

15	NA																							
7	8	9																						80

LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION	
16	Z	NA	
7	8	9	10

PUBLICITY

17	NA																							
7	8	9																						80

8403230176 760830
PDR ADOCK 05000285
S PDR

ADDITIONAL FACTORS

18	Cause Description (con't) governor motor was damaged due to the motor fault. The																							
7	8	9																						80
19	connector was removed and the wiring spliced. See Attachments No. 1, 2 and 3.																							
7	8	9																						80

NAME: J. M. Nagl/J. L. Connolley

PHONE: 402-426-4011

Safety Analysis

The plant electrical system is so designed that no single failure can jeopardize enough equipment to prevent the safe operation of the plant. At the time Diesel Generator #2 (DG-2) governor motor was inoperable, the alternate diesel generator DG-1 was operable and in Auto Standby. DG-1 was then run and loaded to verify its operability prior to taking DG-2 out of service. Therefore, had an auto start signal been received by DG-1, it was available to perform its design function during the time DG-2 was inoperable for governor motor repairs.

Corrective Action

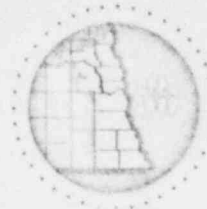
Diesel Generator DG-2 was shutdown and placed in local maintenance. DC control power to DG-2 was secured which cleared the DC ground alarm. Maintenance Order No. 11632 was issued to investigate the cause of the failure.

It was discovered that the governor motor armature had faulted internally causing an open armature winding circuit. The governor motor armature was replaced. The pin and socket connector for the governor motor was damaged from the motor fault and was removed. The wiring to the governor motor was spliced.

Following the replacement of the governor motor armature and splicing of the wiring, DG-2 was successfully tested in accordance with Surveillance Test ST-ESF-6. Diesel loading requirements and governor motor high and low limits were verified.

Failure Data

This is the first event involving a diesel generator governor motor armature fault at the Fort Calhoun Station Unit No. 1.



Omaha Public Power District

1623 HARNEY ■ OMAHA, NEBRASKA 68102 ■ TELEPHONE 536-4000 AREA CODE 402

August 31, 1976
FC-257-76

Mr. E. Morris Howard
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, TX 76012



Dear Mr. Howard:

Reference: Fort Calhoun Station Unit No. 1
Docket No. 50-285

In accordance with the Fort Calhoun Station's Technical Specifications, the Omaha Public Power District, as holder of facility operating license DPR-40, submits three copies of the following licensee event report 50-285/76-26 to satisfy the requirements of Regulatory Guide 1.16.

Sincerely,

W. C. Jones
Section Manager
Operations

WCJ/WDD:rge

Enclosures

cc: Director, Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, DC 20555 (3)

Director, Office of Inspection and
Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555 (30)

Mr. L. C. Shalla
SARC Chairman
PRC Chairman
Fort Calhoun File (2)

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