

## Attachment to AECM-83/0432

TYPE ALL REQUIRED INFORMATION)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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REPORT SOURCE

L	6	0	5	0	0	0	4	1	6	7	0	7	1	7	8	3	8	0	8	0	1	8	3	9
60	61								62	63						74	75							80
DOCKET NUMBER										EVENT DATE						REPORT DATE								

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On July 17, 1983, while performing the eighteen month Division I Standby  
03 Diesel Generator Functional Test (24 hour test run of T.S.4.8.1.1.2.d.9)  
04 the starting air valve for the No. 8 right cylinder failed. The valve  
05 failed approximately 16 hours into the test. On July 24, approximately 6  
06 hours into a diesel test run, the No. 1 left bank cylinder air start  
07 valve on the Division I Diesel also failed. This is reported in  
08 accordance with T.S.4.8.1.1.3 and pursuant to T.S.6.9.1.12.i.

09		SYSTEM CODE EE		11	CAUSE CODE X		12	CAUSE SUBCODE Z		13	COMPONENT CODE ENGINE				14	COMP. SUBCODE Z		15	VALVE SUBCODE Z		16																
7	8	9	10		11		12		13					14			15		16																		
17		LER/RO REPORT NUMBER		EVENT YEAR 83		21		22		SEQUENTIAL REPORT NO. 082		23		24		OCCURRENCE CODE Q1		25		26		REPORT TYPE T		27		28		29		REVISION NO. 0		30		31		32	
ACTION TAKEN X		FUTURE ACTION X		EFFECT ON PLANT Z		SHUTDOWN METHOD Z		HOURS 0000		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. N		PRIME COMP. SUPPLIER N		COMPONENT MANUFACTURER DOS5																					
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67			

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Investigation of the cause of the valve failures is continuing. Material

1 1 Non-Conformance Report No. 665-83 was written to track the investigation

1 2 and document corrective actions. The failures are considered valid

1 3 pursuant to R.G. 1.108.C.2.e(6). The failure on July 24, is the fourth

1 4 valid failure. Testing frequency has increased to once per 3 days.

FACILITY STATUS (1) 5 (8) 28 (29) 0 0 0 10 12 13 NA (30) 40  
 % POWER 10 12 13  
 OTHER STATUS 40  
 METHOD OF DISCOVERY (31) 46 Surveillance Testing 46  
 DISCOVERY DESCRIPTION (32) 80  
 ACTIVITY CONTENT  
 RELEASED OF RELEASE (1) 6 (7) 2 (8) 33 (9) 2 (10) 34 (11) NA (12) 44  
 AMOUNT OF ACTIVITY (35) 44  
 LOCATION OF RELEASE (36) 45 NA 80  
 PERSONNEL EXPOSURES  
 NUMBER (1) 7 (2) 0 (3) 0 (4) 0 (5) 37 (6) 2 (7) 38 (8) NA (9) 40  
 TYPE 11 12 13  
 DESCRIPTION (39) 40  
 PERSONNEL INJURIES  
 NUMBER (1) 2 (2) 0 (3) 0 (4) 0 (5) 40 (6) NA (7) 41  
 DESCRIPTION (41) 40  
 LOSS OF OR DAMAGE TO FACILITY  
 TYPE (1) 9 (2) 2 (3) 4 (4) 40 (5) NA (6) 43  
 DESCRIPTION (43) 40  
 PUBLICITY  
 ISSUED (1) 2 (2) 0 (3) N (4) 44 (5) NA (6) 45  
 DESCRIPTION (45) 40  
 NRC USE ONLY 68 69 70 71 72 73 74 75 76 77 78 79 80

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 PDR ADOCK 05000416  
 S PDR

1622  
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PHONE: \_\_\_\_\_

SUPPLEMENTARY INFORMATION TO  
LER 83-082/01 T-0

Mississippi Power & Light Company  
Grand Gulf Nuclear Station - Unit 1  
Docket No. 50-416

Technical Specification Involved: 3.8.1.2  
Reported Under Technical Specification: 6.9.1.12.1

Event Narrative:

On July 17, 1983, while performing a Division I Diesel Generator 24 hour test run, the starting air valve for the number 8 (eight) right bank cylinder failed. The valve leaked, allowing exhaust air to enter the air start header, overheating the header. The diesel was secured and the air start valve was replaced. At the time, Division II and Division III diesels were operable.

On July 24, 1983, a similar event occurred, this time on the Division I number 1 (one) left bank cylinder starting air valve. The valve began leaking approximately 6 (six) hours into the test. The load on the diesel generator was reduced to approximately 5.7 megawatts. At this point the load could no longer be reduced due to loss of governor control. The generator output breaker was then tripped which caused the diesel to trip on overspeed.

Investigation into the cause of the failures is continuing. Material Non-Conformance Report (MNCR) 00665-83 has been written to track the investigation and document corrective actions. The leaking valves have been replaced.

The failure on July 24 constituted the fourth valid failure. The current testing frequency has been increased to once per 3 (three) days. This is submitted as an interim report. An update is expected to be submitted by September 30, 1983.



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

83 AUG 4 1983

## NUCLEAR PRODUCTION DEPARTMENT

Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., N.W., Suite 2900  
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-13  
File 0260/L-835.0  
Valid Failure of Division I  
Standby Diesel Generator  
LER 83-082/01 T-0  
AECM-83/0432

On July 17, 1983, while performing the eighteen (18) month Division I Standby Diesel Generator Functional Test, the starting air valve for the number eight (8) right cylinder failed. The valve failed approximately 16 hours into the test. On July 24, approximately 6 hours into a diesel test run, the number one (1) left bank cylinder air start valve on the Division I Diesel failed. These failures are reported in accordance with Technical Specification 4.8.1.1.3 and pursuant to Technical Specification 6.9.1.12.1. Attached is LER 83-082/01 T-0, with Supplementary Information.

Yours truly,

L. F. Dale  
Manager of Nuclear Services

EBS/SHH:sap  
Attachment

cc: (See Next Page)

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MISSISSIPPI POWER & LIGHT COMPANY

AECM-83/0432

Page 2

cc: Mr. J. B. Richard (w/a)  
Mr. R. B. McGehee (w/o)  
Mr. T. B. Conner (w/o)  
Mr. G. B. Taylor (w/o)

Mr. Richard C. DeYoung, Director (w/a)  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Document Control Desk (w/a)  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555