

LICENSEE EVENT REPORT

Attachment to AECM-83/0648

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CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 MS GG S 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 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 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CON'T

01 REPORT SOURCE L 6 0 5 0 0 0 4 1 6 7 0 8 3 0 8 3 8 1 0 1 2 8 3 9
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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On 8-30-83, during a 24-hour surveillance test run, the Div. I D/G was
03 shutdown when the RB1 and LB5 cylinder exhaust gaskets failed and a
04 crack and 2 broken welds were discovered on the intercoolers. The diesel
05 was 98 minutes into the test run. Per Reg. Guide 1.108, para C.2.e.(3),
06 this was a valid successful test. There was no affect on the health and
07 safety of the public nor was there a threat to plant safety. This is
08 reported pursuant to T.S.4.8.1.1.3. This is a final report.

09 SYSTEM CODE EE 11 CAUSE CODE B 12 CAUSE SUBCODE B 13 COMPONENT CODE ENGINE 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
17 LER/RO REPORT NUMBER 8 3 1 3 6 0 3 X 2
18 ACTION TAKEN A 19 FUTURE ACTION F 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z 22 HOURS 0 0 0 0 23 ATTACHMENT SUBMITTED Y 24 NPD-4 FORM SUB. N 25 PRIME COMP. SUPPLIER A 26 COMPONENT MANUFACTURER D 0 5 5 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The gasket failures were caused by loose manifold bolts and have been
11 replaced. A crack in the base metal of the LB intercooler was caused
12 by the turbocharger misalignment and mounting problems reported in
13 LER 83-107/03 X-1. Two broken stay rod welds on the RB intercooler were
14 due to insufficient filler welds. The crack & welds were weld repaired.

15 FACILITY STATUS G 28 % POWER 0 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 Operator Observation 32 DISCOVERY DESCRIPTION
16 ACTIVITY RELEASED Z 33 CONTENT Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36
17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE 2 38 DESCRIPTION NA 39
18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41
19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43
20 PUBLICITY ISSUED N 44 DESCRIPTION NA 45

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PDR ADOCK 05000416
S PDR

IL22
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NAME OF PREPARER

D. E. Cathey

PHONE:

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SUPPLEMENTARY INFORMATION TO
LER 83-136/03 X-2

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

Technical Specification Involved: 4.8.1.1.3
Reported Under Technical Specification: 6.9.1.13.b

Event Narrative:

The bolts used to attach the exhaust manifolds to the Diesel Generator exhaust ports are 305 stainless steel, Transamerica Delaval Inc. part number GB-019-118, (item 63, drawing 02-380-06). The bolts were difficult to unscrew and a visual inspection revealed high temperature discoloration. The bolts were replaced with 316 stainless steel until replacement bolts are obtained.

A preliminary analysis indicates a possible misapplication of bolt material. A design evaluation is currently in progress to determine if a change in bolt material is required. Stainless steel type 410 is under consideration at this time.

The crack in the base metal of the LB intercooler was caused by vibration that was induced by the turbocharger misalignment and mounting problems reported in LER 83-107/03 X-1.

The broken stay rod welds on the RB intercooler were caused by insufficient filler welds. The failures may have been aggregated by the turbocharger bolt problem reported in LER 83-107/03 X-1. The filler welds were specified in the vendor manual to be 1/4" but were discovered to be less than 1/8". The broken welds resulted in small air leaks at the juncture point between the rods and the intercooler. The welds were removed and the area was weld repaired to specifications.

There was no effect on the health or safety of the public nor was there a threat to plant safety. All Technical Specification action requirements were met. This is reported pursuant to Technical Specification 4.8.1.1.3 and is an interim report. An update is expected to be submitted prior to January 15, 1984.



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

03 OCT 17, 1983 11:30

NUCLEAR PRODUCTION DEPARTMENT

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
Update Report - Division 1
Diesel Generator Shutdown
Due to Failure of Exhaust
Gaskets on RB1 and LB5
Cylinders
LER 83-136/03 X-2
AECM-83/0648

This letter submits an update to the previous report submitted on October 5, 1983. The event for which the report was submitted occurred on August 30, 1983, when during a 24 hour surveillance test run, the Division 1 Diesel Generator was shutdown when the right bank number 1 and left bank number 5 cylinder exhaust gaskets failed and a crack and two broken welds were discovered on the intercoolers. The diesel was 98 minutes into the test run. This was considered a valid successful test pursuant to Regulatory Position C.2.e(3) of Regulatory Guide 1.108. This was reported pursuant to Technical Specification 4.8.1.1.3.

The previous report stated that the gasket failures resulted from loose manifold bolts. An investigation into the cause of the loose bolts is in progress. Attached is LER 83-136/03 X-2 which is a interim report.

Yours truly,

L. F. Dale
for L. F. Dale
Manager of Nuclear Services

EBS/SHH:sap
Attachment

cc: (See Next Page)

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MISSISSIPPI POWER & LIGHT COMPANY

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Mr. G. B. Taylor (w/o)

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