NRC Form 366 (9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6	1 OF 0 2

TITLE (4)
Fuel Oil Sample Found Out of Technical Specification Limits

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
0 8	1 5	8 4	8 4	0 3 8	0 0	0 9	1 4	8 4		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)	4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 0 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
Ronald W. Byrd/Licensing Engineer	6 0 1 — 4 3 7 — 2 1 4 9

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Quality Assurance determined during an audit that the surveillance requirements of Technical Specification 4.8.1.1.2.c were not fully met on February 8, 1984 and May 3, 1984 for the Diesel Generator fuel viscosity analysis and on May 24, 1984 for the Gas Turbine Generator fuel viscosity.

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NRC Form 366A (9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6	8 4	— 0 3 8	— 0 0	0 2 OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Quality Assurance determined during an audit that the surveillance requirements of Technical Specification 4.8.1.1.2.c were not fully met on February 8, 1984 and May 3, 1984, for the Diesel Generator fuel viscosity analysis and on May 24, 1984, for the Gas Turbine Generator fuel viscosity.

Technical Specification 4.8.1.1.2.c requires a Diesel Generator fuel oil sample to be taken and analyzed for water and sediment content, kirematic viscosity, and impurity at least once per 92 days. The kinematic viscosity at 40°C is required to be greater than or equal to 1.9 but less than or equal to 4.1 when tested in accordance with ASTM-D975-77. This document refers to ASTM-0445 which states that the fluid flow measured in the viscosity test should be greater than 200 seconds. Kinematic viscosity is calculated as the product of flow time and a calibration factor. By selecting a viscometer size which restricts flow to greater than 200 seconds between a calibrated span, greater accuracy is obtained in the test results.

The fuel oil flow time recorded for the samples taken from the three diesel generator fuel storage tanks on February 8 were 39.8 seconds, 35.3 seconds, and 13.3 seconds. The fuel oil flow time for the Gas Turbine fuel on May 24 was 169.9 seconds. Tne viscosity however, was calculated to be within Technical Specification limits. The surveillance procedure instructs the performer to select a viscometer having a range covering the estimated viscosity and that the flow time should not be less than 200 seconds. To prevent recurrence, the 200 second limitation will be included on the data package as an acceptance criteria to make reviewers aware of this requirement.

The viscosity for diesel fuel oil storage tank 3B tested on May 3, 1984 could not be verified to be within limits. The viscometer flow time was measured at 1198.8 seconds with a calibration factor of 0.003992. The resultant product was recorded as 4.78 (out of Technical Specification limits) but was marked through and corrected to 3.20 (within Technical Specification limits). It is believed that the viscosity of 3.20 was correct and that the calibration factor was recorded incorrectly, however this could not be verified. The surveillance is therefore considered unacceptable.

Each of the events were caused by the test performers inattention to detail and failure to follow written procedures. The surveillance procedures are being revised to include more detailed documentation and the viscometer flow times as acceptance criteria.

MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

September 14, 1984

NUCLEAR LICENSING & SAFETY DEPARTMENT

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-13
File: 0260/L-835.0
Fuel Oil Sample Found Out of
Technical Specification Limits
LER 84-038-0
AECM-84/0453

Attached is Licensee Event Report (LER) 84-038-0 which is a final report.

Yours truly,

S H Hobbs

L. F. Dale
for Director

EBS/SHH:rg
Attachment

cc: Mr. J. B. Richard (w/a)
Mr. R. B. McGehee (w/o)
Mr. N. S. Reynolds (w/o)
Mr. G. B. Taylor (w/o)

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