

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) Grand Gulf Nuclear Station - Unit 1 | | | | | | | | | | DOCKET NUMBER (2) 0 5 0 0 0 4 1 6 | | | | PAGE (3) 1 OF 2 | | |
| TITLE (4) Plant Shutdown Due to Jet Pumps Failing Surveillance | | | | | | | | | | | | | | | | |
| 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 9 | 0 9 | 8 4 | 8 4 | 0 4 1 | 0 0 | 1 0 | 0 8 | 8 4 | | | | | 0 5 0 0 0 | | | |
| OPERATING MODE (9) | | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11) | | | | | | | | | | | | | | |
| 2 | | 20.402(b) | | | | 20.405(c) | | | | 50.73(a)(2)(iv) | | | | 73.71(b) | | |
| POWER LEVEL (10) | | 20.405(a)(1)(i) | | | | 50.36(e)(1) | | | | 50.73(a)(2)(v) | | | | 73.71(e) | | |
| 0 0 1 | | 20.405(a)(1)(ii) | | | | 50.36(e)(2) | | | | 50.73(a)(2)(vii) | | | | OTHER (Specify in Abstract below and in Text, NRC Form 356A) | | |
| | | 20.405(a)(1)(iii) | | | | 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 | | | | | | |
| Ronald W. Byrd/Licensing Engineer | | | | | | | | | | 6 0 1 4 3 7 1 2 1 4 9 | | | | | | |
| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) | | | | | | | | | | | | | | | | |
| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPDs | | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPDs | | | | | | |
| X | A D | P D T | R | 3 6 9 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 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)

The plant was shutdown when more than one jet pump failed to meet surveillance which required the diffuser-to-lower plenum differential pressure of each jet pump to be within 50% of the loop average. Three transmitters with a questionable output were replaced and three were recalibrated. The test was performed with the reactor at approximately 1% thermal power. Accurate readings by the instruments are more difficult to obtain at such low recirculation flows. The test was successfully completed following a restart on September 10.

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NRC Form 386A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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EXPIRES 8/31/85

| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) | | |
|-------------------------------------|-------------------|----------------|-------------------|-----------------|----------|----|-----|
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | | |
| Grand Gulf Nuclear Station - Unit 1 | 0 5 0 0 0 4 1 6 | 8 4 | 0 4 1 | 0 0 | 0 2 | OF | 0 2 |

TEXT (If more space is required, use additional NRC Form 386A's) (17)

The reactor was shutdown at 1828 hours on September 9, 1984, as required by Technical Specification 3.4.1.2 when more than one jet pump failed the surveillance of Technical Specification 4.4.1.2.2. This surveillance was added per Amendment 13 to the Technical Specifications and requires the diffuser-to-lower plenum differential pressure of each jet pump to be within 50% of the loop average within 72 hours after startup. This test was performed at approximately 1% thermal power. Startup (criticality) began at 0008 hours on September 7, 1984.

Due to their questionable output, three transmitters were replaced and three were calibrated for more accurate readings. The surveillance was then successfully completed following a restart on September 10.

There were no significant safety consequences as a result of this event. The transmitters provide differential pressure readings used to detect jet pump failures. Accurate readings by the instruments are more difficult to obtain at such low recirculation flows. At no time was a jet pump physically inoperable.



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

October 8, 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
Plant Shutdown Due to Jet Pumps
Failing Surveillance
LER 84-041-0
AECM-84/0479

Attached is Licensee Event Report (LER) 84-041-0 which is a final report.

Yours truly,

L. F. Dale
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)

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

Mr. J. P. O'Reilly, Regional Administrator (w/a)
U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323