

August 1, 1988

Docket No.: 50-416

DISTRIBUTION
See attached sheet

Mr. Oliver D. Kingsley, Jr.
Vice President, Nuclear Operations
System Energy Resources, Inc.
Post Office Box 23054
Jackson, Mississippi 39205

Dear Mr. Kingsley:

SUBJECT: ISSUANCE OF AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE
NO. NPF-29 - GRAND GULF NUCLEAR STATION, UNIT 1, REGARDING
ONSITE DIESEL GENERATOR TEST SCHEDULE (TAC NO. 67823)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 46 to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1. This amendment consists of changes to the Technical Specifications (TS) in response to your application dated April 8, 1988, as supplemented June 21, 1988.

The amendment changes the onsite diesel generator test schedule in the TS by changing the criterion for more frequent testing.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's bi-weekly Federal Register notice.

Sincerely,

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Lester L. Kintner, Project Manager
Project Directorate II-1
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 46 to NPF-29
2. Safety Evaluation

cc w/enclosures:
See next page

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NAME	: Anderson	: LKintner:ch: EAdensam	:	:	:	:
DATE	: 7/14/88	: 7/14/88	: 7/20/88	:	:	:

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System Energy Resources, Inc.

Grand Gulf Nuclear Station (GGNS)

cc:

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AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. NPF-29 - GRAND GULF

Docket File

NRC PDR

Local PDR

PDII-1 Reading

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ACRS (10)

GPA/PA

ARM/LFMB

cc: Licensee/Applicant Service List



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MISSISSIPPI POWER & LIGHT COMPANY

SYSTEM ENERGY RESOURCES, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 46
License No. NPF-29

1. The Nuclear Regulatory Commission (the Commission) has found that
 - A. The application for amendment by System Energy Resources, Inc., (the licensee), dated April 8, 1988, as supplemented June 21, 1988, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, the license is amended by changes to the Technical Specifications, as indicated in the attachment to this license amendment; and paragraph 2.C.(2) of Facility Operating License No. NPF-29 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 46, are hereby incorporated into this license. System Energy Resources, Inc. shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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Elinor G. Adensam, Director
Project Directorate II-1
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 1, 1988

OFC	:LA:PD21:DRPR:PM:PD21:DRPR:	OGC	:D:PD21:DRPR:	:	:
NAME	:Anderson:	:LKinther:clh	:EAdensam	:	:
DATE	: 7/14/88	: 7/14/88	: 7/14/88	: 7/26/88	:

ATTACHMENT TO LICENSE AMENDMENT NO. 46

FACILITY OPERATING LICENSE NO. NPF-29

DOCKET NO. 50-416

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove

3/4 8-8

Insert

3/4 8-8

TABLE 4.8.1.1.2-1

DIESEL GENERATOR TEST SCHEDULE

<u>NUMBER OF FAILURES IN LAST 20 VALID TESTS*</u>	<u>NUMBER OF FAILURES IN LAST 100 VALID TESTS*</u>	<u>TEST FREQUENCY</u>
≤ 1	≤ 4	Once per 31 days
$> 1^{**}$	> 4	Once per 7 days

Note: Valid failures greater than the number indicated in either the 20 valid test column or the 100 valid test column will require accelerated testing frequency. The criteria in the 20 valid test column, 100 valid test column and the ** footnote must be satisfied prior to a reduction in test frequency.

*Criteria for determining number of failures and number of valid tests shall be in accordance with Regulatory Position C.2.e of Regulatory Guide 1.108, Revision 1, August 1977, where the last 100 tests are determined on a per diesel generator basis.

**If increased frequency testing is required due to exceeding one failure in the last 20 valid tests, then in addition to the requirements of this table, the last seven consecutive valid tests must be successful in order to return to a 31 day test frequency.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. NPF-29

MISSISSIPPI POWER & LIGHT COMPANY

SYSTEM ENERGY RESOURCES, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

GRAND GULF NUCLEAR STATION, UNIT 1

DOCKET NO. 50-416

1.0 INTRODUCTION

By letter dated April 8, 1988, System Energy Resources, Inc. (the licensee), requested an amendment to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1 (GGNS Unit 1). Supplemental information regarding the safety analysis was submitted June 21, 1988, regarding the licensee's finding of no significant hazards considerations but did not modify the proposed TS changes. Accordingly, the Federal Register notice was not reissued.

The proposed amendment would change the TS by changing Table 4.8.1.1.2-1, "Diesel Generator Test Schedule," to:

- (1) Delete the criterion for using the diesel generator test interval of 14 days.
- (2) Change the criterion for using the 7 day test interval from greater than 2 diesel generator test failures in the last 100 valid tests to greater than 4 diesel generator test failures in the last 100 valid tests or greater than 1 diesel generator test failure in the last 20 valid tests.
- (3) Change the criterion for using the 31 day test interval from less than or equal to 1 diesel generator test failure in the last 100 valid tests to less than or equal to 4 diesel generator test failures in the last 100 valid tests or less than or equal to 1 diesel generator test failure in the last 20 valid tests.
- (4) Add a footnote to state that, if increased frequency testing is required due to exceeding one diesel generator test failure in the last 20 valid tests, then the increased test frequency shall be maintained until seven consecutive failure-free tests have been performed and the number of failures in the last 20 valid tests have been reduced to less than or equal to one.

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- (5) Delete the portion of the present footnote that states only valid tests conducted after the Operating License issuance date of June 16, 1982 shall be used in the computation of the last 100 valid tests.

2.0 EVALUATION

The objective of diesel generator (DG) periodic testing is to ensure DG operability by timely failure detection and necessary corrective action. Such testing provides assurance of the availability of the diesel generator. Regulatory Guide 1.108, "Periodic Testing of Diesel Generator Units Used as Onsite Electric Power Systems at Nuclear Power Plants," recommends more frequent testing as the number of test failures increases. The GGNS Unit 1 TS presently require that the DGs be tested in accordance with Regulatory Guide 1.108. The licensee's proposed changes would increase the allowable number of valid test failures, before test frequency would be increased, thus decreasing the reliability goal from the present value of 0.99 (1 failure in 100 tests) to 0.95 (1 failure in 20 tests). This lower reliability goal was found acceptable in Generic Letter 84-15, "Proposed Staff Action to Improve and Maintain Diesel Generator Reliability."

The first proposed change is to delete the diesel generator test interval of 14 days. The 14 day test interval is not necessary due to the additional testing required on a seven day interval if the valid failures exceed 1 in the last 20 valid starts. This change is in accordance with Generic Letter 84-15 and is, therefore, acceptable.

The second proposed change to Table 4.8.1.1.2-1 is to change the criterion for the 7 day test interval to greater than 4 DG failures in the last 100 valid tests or greater than 1 DG failure in the last 20 valid tests. The third proposed change is to change the criterion for the 31 day test interval to less than or equal to 4 DG failures in the last 100 valid tests and less than or equal to 1 DG failure in the last 20 valid tests. These proposed TS changes are in accordance with Generic Letter 84-15 (which includes the 20 valid test criteria based on a reliability goal of 0.95), are consistent with the changes approved on other recently licensed plants and are, therefore, acceptable.

The fourth proposed change is to add a footnote to the 7 day test frequency for greater than 1 DG failure in the last 20 valid tests. The footnote requires that the associated test frequency shall be maintained until seven consecutive failure free tests have been performed and the number of failures in the last 20 valid demands has been reduced to less than or equal to one. This change is in accordance with Generic Letter 84-15 and is, therefore, acceptable.

The fifth proposed change is to delete the statement in the present footnote regarding computation of the last 100 valid tests. Each diesel generator now has over 100 valid tests since the Operating License was issued. Because the reference in the footnote is no longer necessary, its deletion is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of no significant impact have been prepared and published in the Federal Register on . Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant impact on the quality of the human environment.

4.0 CONCLUSION

The Commission has issued a Notice of Consideration of Issuance of Amendment to Facility Operating License and Opportunity for Hearing which was published in the Federal Register (53 FR 15609) on May 2, 1988. No petition to intervene or request for hearing has been filed on this action.

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: N. Trehan

Dated: August 1, 1988