



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

OCT 11 1985

Docket No. 50-458

Mr. William J. Cahill
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

Dear Mr. Cahill:

SUBJECT: AMENDMENT NO. 1 TO FACILITY OPERATING LICENSE NO. NPF-40 RIVER BEND
STATION, UNIT 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 1 to Facility Operating License No. NPF-40 for the River Bend Station, Unit 1. The amendment is in response to your letter dated September 24, 1985 as supplemented on September 25, 1985. Facility Operating License NPF-40 is amended by increasing the maximum transient generator voltage prescribed for the HPCS diesel generator (1C) in Item 4.8.1.1.2(f)(3) of the Technical Specifications from 4784 to 5400 volts.

This amendment was authorized by telephone on September 26, 1985 and confirmed by letter on September 26, 1985.

The formal license amendment, our completed safety evaluation, and the Federal Register Notice for this change to the Technical Specifications for River Bend Station, Unit 1 are enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Walter R. Butler".

Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

Enclosures:

1. Amendment No. 1 to NPF-40
2. Safety Evaluation
3. Federal Register Notice

cc: w/enclosures
See next page

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Mr. William J. Cahill, Jr.
Gulf States Utilities Company

River Bend Nuclear Plant

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River Bend

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Docket No. 50-458

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Original signed by

Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

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- 2. Safety Evaluation
- 3. Federal Register Notice

cc: w/enclosures
See next page

DISTRIBUTION
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L. Dewey
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LB#2/DL/BC
WRButler
10/2/85

AD/L/DL
TMNovak
10/ /85

3. This amendment was effective September 26, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by

Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: **OCT 11 1985**

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Docket File

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BGrimes
EJordan
LHarmon
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

GULF STATES UTILITIES
DOCKET NO. 50-458
RIVER BEND STATION, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 1
License No. NPF-40

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
 - A. The application for amendment filed by Gulf States Utilities, dated September 24, 1985 as supplemented on September 25, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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.
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-40 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised by Amendment No. 1 and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. GSU shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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3. This amendment was effective September 26, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION



Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

➤ Attachment:
Changes to the Technical
Specifications

Date of Issuance: OCT 11 1985

ENCLOSURE TO LICENSE AMENDMENT NO. 1
FACILITY OPERATING LICENSE NO. NPF-40
DOCKET NO. 458

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

REMOVE

3/4 8-6

INSERT

3/4 8-6

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

3. By verifying within 31 days of obtaining the sample that the other properties specified in Table 1 of ASTM D975-81 are met when tested in accordance with ASTM D975-81, except that the analysis for sulfur may be performed in accordance with ASTM D1552-79 or ASTM D2622-82.
- e. At least once every 31 days by obtaining a sample of fuel oil from the storage tanks in accordance with ASTM D2276-78 and verifying that total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM D2276-78, Method A.
- f. At least once per 18 months#, during shutdown, by:
 1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.
 2. Verifying the diesel generator capability to reject a load of greater than or equal to 917.5 kw for diesel generator 1A, greater than or equal to 509.2 kw for diesel generator 1B, and greater than or equal to 1995 kw for diesel generator 1C while maintaining voltage at 4160 ± 420 volts and frequency at 60 ± 1.2 Hz, and while maintaining engine speed less than 75% of the difference between nominal speed and the overspeed trip setpoint or 15% above nominal, whichever is less.
 3. Verifying the diesel generator capability to reject a load of 3030-3130 kw*** for diesel generators 1A and 1B and 2500-2600 kw*** for diesel generator 1C without tripping. The generator voltage shall not exceed 4784 volts for diesel generator 1A and 1B and 5400 volts for diesel generator 1C during and following the load rejection.
 4. Simulating a loss of offsite power by itself, and:
 - a) For divisions I and II:
 - 1) Verifying deenergization of the emergency busses and load shedding from the emergency busses.

#For any start of a diesel, the diesel must be operated with a load in accordance with the manufacturer's recommendations.

***Momentary transients due to changing bus loads shall not invalidate the test.



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SAFETY EVALUATION

AMENDMENT NO. 1 TO NPF-40

RIVER BEND STATION

DOCKET NO. 458

Introduction

By letters dated September 24, 1985 and September 25, 1985, Gulf States Utilities Company (the licensee) requested an emergency change to Section 4.8.1.1.2(f)(3) of the River Bend Unit 1 Technical Specifications. The Technical Specifications currently required an 18-month surveillance of the high pressure core spray (HPCS) diesel generator (1C) to demonstrate its ability to reject a full load of 2500-2600 kW without tripping and without exceeding a transient generator voltage of 4784 volts during and following the load rejection. The 4784 limit volts is 115 percent of the rated steady state voltage of 4160 volts. The proposed change is to revise the surveillance test to verify that the transient generator voltage shall not exceed 5400 volts (approximately 130 percent of the rated steady state voltage).

Evaluation

In its September 24, 1985 letter, the licensee stated that the River Bend Station HPCS electrical system is designed for a maximum transient voltage overshoot of 5824 volts following a full load rejection. This is 140 percent of rated steady state voltage (4160 volts). The only time the HPCS diesel generator would see a full load rejection is following a trip of the HPCS diesel generator main output breaker. Therefore, only the electrical wiring and components on the HPCS diesel generator side of the main output breaker would be subjected to this transient over-voltage. It is these loads which the licensee has verified are designed to withstand 140 percent of rated steady state voltage without any degradation. There is therefore a 10 percent margin between the designed steady state voltage of these loads and the proposed new transient over-voltage limit.

The licensee's HPCS diesel generator voltage regulator has been set to provide optimum performance during starting, loading, and load rejection transients. Although this optimization results in a voltage overshoot in excess of that currently allowed in the Technical Specifications, it is still within the design limit. The staff therefore finds that the proposed change is necessary for operational flexibility in surveillance testing and provides an adequate safety margin to the design voltage limit of the associated components. The proposed change is therefore acceptable.

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Emergency Circumstances

The proposed change falls into the category of an emergency change since the startup schedule for River Bend, Unit 1 will be delayed unless the NRC takes action to approve the proposed change. Without the proposed amendment, River Bend, Unit 1 cannot continue its startup test program beyond initial criticality because surveillance requirement 4.8.1.1.2(f)(3) needs to be satisfied to demonstrate operability of the HPCS diesel generator, which in turn is needed before entering Operational Mode 2 or initial criticality.

We have reviewed the facts concerning this request and conclude that the licensee has made a timely submittal and that reactor startup cannot continue beyond initial criticality without NRC action. Also, the licensee did not learn of the need for the proposed change until the recent baseline testing of the HPCS diesel generator on September 15, 1985.

Final No Significant Hazards Determination

The Commission has provided certain examples (48 FR 14870) of actions likely to involve significant hazards considerations. Based on the review of the licensee's submittal, as described herein, the staff has made a final determination that the licensee's proposed amendment does not involve a significant hazards consideration since the operation of River Bend Station, Unit 1 with the proposed change would not:

- (1) Involve a significant increase in the probability or consequences of an accident previously evaluated because there is no change in the design or performance of plant systems or components from those evaluated in the FSAR.
- (2) Create the possibility of a new or different kind of accident from any previously evaluated because the proposed amendment does not change any previously reviewed and approved description or analysis provided in the FSAR.
- (3) Involve a significant reduction in the margin of safety because operability, availability, and reliability of HPCS diesel generator is not changed by the proposed amendment.

Accordingly the staff has made a final determination that this license amendment involves no significant hazards consideration.

Staff Consultation

In accordance with the Commission's regulation, consultation was held with the State of Louisiana by telephone on September 24, 1985. The State has no comments on this action.

Environmental Consideration

This amendment changes surveillance requirement 4.8.1.1.2(f)(3). We have determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released

offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has made a final determination that this amendment involves no significant hazards considerations. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

Conclusion

The staff has concluded, based on the considerations discussed above, that: (1) this license amendment involves no significant hazards considerations; (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: **OCT 11 1985**