

September 27, 1990

Docket No. 50-458

Gulf States Utilities  
ATTN: Mr. James C. Deddens  
Senior Vice President (RBNG)  
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Dear Mr. Deddens:

SUBJECT: RIVER BEND STATION, UNIT 1 - AMENDMENT NO. 48 TO FACILITY  
OPERATING LICENSE NO. NPF-47 (TAC NO. 76404)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 48 to Facility Operating License No. NPF-47 for the River Bend Station, Unit 1. The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated March 19, 1990.

The amendment adds new surveillance requirements to TS 4.9.6.2 for a new frame mounted auxiliary hoist on the fuel building fuel handling platform. The new hoist will be used to move control rods between primary containment and the fuel building.

A copy of our Safety Evaluation is enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

(ORIGINAL SIGNED BY)

Claudia M. Abbate, Project Engineer  
Project Directorate IV-2  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 48 to NPF-47
2. Safety Evaluation

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cc w/enclosures:  
See next page

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NAME	: EPeyton	: CAbbate	: CGrimes	:	:	:
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Mr. James C. Deddens

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

GULF STATES UTILITIES COMPANY

DOCKET NO. 50-458

RIVER BEND STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 48  
License No. NPF-47

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Gulf States Utilities Company (the licensee) dated March 19, 1990, 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, as amended, 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 license 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-47 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 48 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

*Christopher I. Grimes*

Christopher I. Grimes, Director  
Project Directorate IV-2  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: September 27, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 48

FACILITY OPERATING LICENSE NO. NPF-47

DOCKET NO. 50-458

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. The overleaf page is provided to maintain document completeness.

REMOVE

3/4 9-9

INSERT

3/4 9-9

## REFUELING OPERATIONS

### 3/4.9.6 REFUELING AND FUEL HANDLING PLATFORMS

#### FUEL HANDLING PLATFORM

##### LIMITING CONDITION FOR OPERATION

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3.9.6.2 The fuel handling platform shall be OPERABLE and used for handling fuel assemblies or control rods.

APPLICABILITY: During handling of fuel assemblies or control rods.

##### ACTION:

With the requirements for fuel handling platform OPERABILITY not satisfied, suspend use of any inoperable refueling platform equipment from operations involving the handling of control rods and fuel assemblies after placing the load in a safe condition.

##### SURVEILLANCE REQUIREMENTS

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4.9.6.2 Each fuel handling platform hoist used for handling of control rods or fuel assemblies shall be demonstrated OPERABLE within 7 days prior to the start of such operations with that hoist by:

- a. Demonstrating operation of the overload cutoff on the main hoist before the load exceeds  $1100 \pm 50$  pounds.
- b. Demonstrating operation of the overload cutoff on the monorail-mounted auxiliary hoists when handling control rods before the load exceeds  $500 \pm 50$  pounds, and when handling unirradiated fuel before the load exceeds  $1000 \pm 50$  pounds.
- c. Demonstrating operation of the overload cutoff on the frame mounted auxiliary hoist when handling control rods before the load exceeds 500, +/- 50 pounds.
- d. Demonstrating operation of the normal uptravel stop interlock of the main hoist to maintain at least 8 feet 2 inches of water coverage above the top of the active irradiated fuel.
- e. Demonstrate operation of the normal uptravel stop interlock of the monorail and frame mounted auxiliary hoists to maintain at least 6 feet 9 inches of water coverage above the top of the irradiated control rod.
- f. Demonstrating operation of the slack cable cutoff on the main hoist when the load is less than  $50 \pm 10$  pounds.
- g. Demonstrating operation of the loaded interlock on the main hoist when the load exceeds  $350 \pm 50$  pounds.

## REFUELING OPERATIONS

### 3/4.9.7 CRANE TRAVEL - SPENT AND NEW FUEL STORAGE, TRANSFER AND UPPER CONTAINMENT FUEL POOLS

#### LIMITING CONDITION FOR OPERATION

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3.9.7 Loads in excess of 1200 pounds shall be prohibited from travel over fuel assemblies in the spent or new fuel storage, transfer or upper containment fuel pool racks.

APPLICABILITY: With fuel assemblies in the spent or new fuel storage, transfer or upper containment fuel pools.

#### ACTION:

With the requirements of the above specification not satisfied, place the crane load in a safe condition. The provisions of Specification 3.0.3 are not applicable.

## SURVEILLANCE REQUIREMENTS

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4.9.7.1 The fuel building crane loads shall be verified to weigh less than or equal to 1200 pounds before travel over fuel assemblies in the spent or new fuel storage pools and the lower transfer pools.

4.9.7.2 The reactor building polar crane loads shall be verified to weigh less than or equal to 1200 pounds before travel over fuel assemblies in the upper transfer and containment fuel pools.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 48 TO FACILITY OPERATING LICENSE NO. NPF-47

GULF STATES UTILITIES COMPANY

RIVER BEND STATION, UNIT 1

DOCKET NO. 50-458

INTRODUCTION

By letter dated March 19, 1990, Gulf States Utilities Company (GSU) (the licensee) requested an amendment to Facility Operating License No. NPF-47 for the River Bend Station, Unit 1. The proposed amendment would add new surveillance requirements to Technical Specification (TS) 4.9.6.2 for a new frame mounted auxiliary hoist on the fuel building fuel handling platform. The new hoist will be used to move control rods and Inclined Fuel Transfer System (IFTS) fuel and control rod inserts from the IFTS area to storage racks. An overload cutoff and normal uptravel stop interlock for lifting control rods are the proposed additions to the TS as a result of installation of the new hoist.

EVALUATION

The licensee indicated that the new frame mounted auxiliary hoist on the fuel handling platform will be of the same design as currently used on the refueling platform and that both platforms are structurally similar in design. The fuel handling platform will continue to meet all seismic and other previously established design requirements as described in updated safety analysis report (USAR) Section 9.1.4 ensuring no increased probability of platform failure, which could result in an accident.

The licensee stated that its request to add surveillance requirement 4.9.6.2c to demonstrate operation of  $500 \pm 50$  pounds overload cutoff when handling control rods by the new auxiliary hoist is consistent with other auxiliary hoists in the plant that are used for lifting of control rods. The above cutoff limit is to ensure that fuel assemblies will not be inadvertently lifted during control rod handling operation.

The licensee also stated that its request to revise surveillance requirement 4.9.6.2d to include the new frame mounted auxiliary hoist's uptravel stop interlock with the monorail mounted auxiliary hoist to maintain at least 6 feet, 9 inches of water coverage above the top of the irradiated control rods is consistent with other auxiliary hoists that are currently used to handle control rods. This uptravel limit was previously approved by the staff.

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The licensee's request to change surveillance requirements 4.9.6.2c, d, e and f to 4.9.6.2d, e, f and g is administrative in nature and therefore acceptable.

The licensee indicated that the new auxiliary hoist will be equipped with a keylock switch on the platform control panel to allow bypassing the 500-pound limit to a higher 1000-pound limit needed for lifting of IFTS inserts. The operation of the load bypass switch will be controlled through administrative procedures to preclude inadvertent fuel lifts by proposed separation between the point of lift and the location of spent fuel and will be used only for specific designated tasks, such as handling of the IFTS inserts. Handling of fuel assemblies and installation of a fuel handling grapples will be prohibited at all times. The bypass capability coupled with appropriate administrative restrictions is consistent with that utilized on the monorail mounted auxiliary hoist and will not result in a reduction of any margins of safety.

The licensee stated that the most severe fuel handling accident is the drop of a channeled fuel bundle onto unchanneled spent fuel located in the spent fuel racks in the fuel handling building as discussed in USAR Section 15.7.4. The proposed modification does not affect the result of that analysis, as none of the assumptions used to estimate the consequences of such an accident are affected. Therefore, all conditions potentially generated by the addition of the new hoist remain bounded by the original analysis.

These proposed changes continue to support all design and operational requirements described in USAR and SER Sections 9.1.4, 15.7.4 and Technical Specification 3/4.9.6. The staff has reviewed the licensee's submittal as discussed above and considers that the proposed changes are acceptable.

#### SUMMARY

Based on the above evaluation, the staff concludes that the proposed installation of a new frame mounted auxiliary hoist on the fuel handling platform and the proposed changes to TS 4.9.6.2 to add surveillance requirements for the new hoist for overload cutoff and uptravel stop interlock for handling of control rods, and the installation of a keylock bypass switch to allow lifting of IFTS inserts for control and fuel rods under administrative controls are acceptable.

ENVIRONMENTAL CONSIDERATION

The amendment involves a change in a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has 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 exposures. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Section 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 the amendment.

CONCLUSION

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 the amendment will not be inimical to the common defense and security or to the health and safety of the public. The staff therefore concludes that the proposed changes are acceptable.

Dated: September 27, 1990

Principal Contributor: R. Goel, SPLB