

August 21, 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. 46 TO FACILITY
OPERATING LICENSE NO. NPF-47 (TAC NO. 76946)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 46 to Facility Operating License No. NPF-47 for the River Bend Station, Unit 1. The amendment consists of a change to the Technical Specifications (TSs) in response to your application dated June 6, 1990.

The amendment revises TS Table 3/4.3.7.8-1, "Fire Detection Instrumentation." An additional smoke detector is being installed due to the addition of a suspended ceiling in the control rod drive maintenance rebuild room. The additional smoke detector increases the total number of detectors listed in the table.

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:

- Amendment No. 46 to NPF-47
- Safety Evaluation

cc w/enclosures:
See next page

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Mr. James C. Deddens

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August 21, 1990

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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. 46
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 June 6, 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.

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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-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. 46 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: August 21, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 46

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 PAGE

3/4 3-90

INSERT PAGE

3/4 3-90

TABLE 3.3.7.8-1 (Continued)

FIRE DETECTION INSTRUMENTATION

<u>INSTRUMENT LOCATION</u>		<u>TOTAL INSTRUMENTS OPERABLE*</u>		
		<u>HEAT</u> (x/y)	<u>FLAME</u> (x/y)	<u>SMOKE</u> (x/y)
I. CONTROL BUILDING				
<u>ZONE (Continued)</u>				
SD-143	PGCC PANEL MODULE, EL 136'0"	0/9		17/0
SD-144	PGCC PANEL MODULE, EL 136'0"	0/9		17/0
SD-145	PGCC PANEL MODULE, EL 136'0"	0/8		8/0
SD-146	PGCC PANEL MODULE, EL 136'0"	0/8		8/0
SD-147	PGCC PANEL MODULE, EL 136'0"	0/12		14/0
SD-148	PGCC PANEL MODULE, EL 136'0"	0/12		18/0
SD-149	PGCC PANEL MODULE, EL 136'0"	0/10		14/0
SD-150	PGCC PANEL MODULE, EL 136'0"	0/9		15/0
SD-151	PGCC PANEL MODULE, EL 136'0"	0/10		10/0
SD-158	PGCC PANEL MODULE, EL 136'0"	0/8		8/0
SD-152	NON PANEL MODULE AREA NORTH, EL 135'0"			10/0
SD-153	NON PANEL AREA SOUTH, EL 135'0"			10/0
SD-154	GENERAL AREA, EL 136'0"			84/0
SD-162	REMOTE SHUTDOWN PANEL DIV I, EL 98'0"			1/0
SD-163	REMOTE SHUTDOWN PANEL DIV II, EL 98'0"			1/0
FD-26	CHARCOAL FILTER IHVC*FLT3B, EL 115'0"	1/0		
FD-27	CHARCOAL FILTER IHVC*FLT3A, EL 115'0"	1/0		
II. REACTOR BUILDING				
<u>ZONE</u>				
SD-57	#CONTAINMENT AREA, EL 114'0"			13/0
SD-104	#CONTAINMENT AREA, EL 186'3"			17/0
SD-117	#CONTAINMENT AREA, EL 162'3"			7/0
SD-119	#CONTAINMENT AREA, EL 141'0"			13/0
FD-13	#RECIRC PUMPS - DRYWELL, EL 70'0" & 98'0"	2/0		

* (x/y): x is number of Function A (early warning fire detection and notification only) instruments.
y is number of Function B (actuation of fire suppression systems and early warning fire detection).

#The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

TABLE 3.3.7.8-1 (Continued)

FIRE DETECTION INSTRUMENTATION

<u>INSTRUMENT LOCATION</u>	<u>TOTAL INSTRUMENTS OPERABLE*</u>		
	<u>HEAT</u> (x/y)	<u>FLAME</u> (x/y)	<u>SMOKE</u> (x/y)
<u>III. AUXILIARY BUILDING</u>			
<u>ZONE</u>			
SD-28	HPCS PUMP ROOM EL 70'0"		1/0
SD-29	RHR PUMP ROOM B, EL 70'0"		2/0
SD-30	RHR PUMP ROOM C, EL 70'0"		2/0
SD-31	RHR PUMP ROOM A, EL 70'0"		2/0
SD-32	LPCS PUMP ROOM, EL 70'0"		1/0
SD-43	GENERAL AREA WEST, EL 95'0"		2/0
SD-49	GENERAL AREA, EL 141'0"		9/0
SD-52	GENERAL AREA EAST, EL 114'0"		5/0
SD-53	GENERAL AREA WEST, EL 114'0"		5/0
SD-55	PASS ROOM, EL 114'0"		1/0
SD-96	RCIC PUMP ROOM, EL 70'0"		0/2
SD-97	GENERAL AREA, EL 70'0"		4/0
SD-98	GENERAL AREA EAST, EL 95'9"		2/0
SD-99	GENERAL AREA WEST, EL 95'9"		2/0
SD-100	GENERAL AREA WEST, EL 95'9"		3/0
SD-101	STANDBY GAS TREATMENT ROOM "B", EL 141'0"		4/0
SD-103	STANDBY GAS TREATMENT ROOM "A", EL 141'0"		4/0
SD-106	ANNULUS MIXING FAN AREA, EL 171'0"		3/0
FD-33	STANDBY GAS TREATMENT FILTER "B", EL 141'0"	1/0	
FD-34	STANDBY GAS TREATMENT FILTER "A", EL 141'0"	1/0	
SD-164	WATER CURTAIN, EL 70'0"		0/2
SD-165	WATER CURTAIN, EL 141'0"		0/4
<u>IV. FUEL BUILDING</u>			
<u>ZONE</u>			
SD-33	FUEL POOL COOLING PUMP AREAS, EL 70'0"		2/0
SD-44	IENS*SWG 3A & 4A AREA, EL 95'0"		7/0
SD-59	GENERAL AREA, EL 113'0"		13/0
SD-91	GENERAL AREA, EL 70'0"		7/0
SD-94	NEW FUEL RECEIVING AREA, EL 95'0"		2/0

* (x/y): x is number of Function A (early warning fire detection and notification only) instruments.
y is number of Function B (actuation of fire suppression systems and early warning fire detection).



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. NPF-47

GULF STATES UTILITIES COMPANY

RIVER BEND STATION, UNIT 1

DOCKET NO. 50-458

INTRODUCTION

By letter dated June 6, 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 increase the number of smoke detectors in Technical Specification (TS) Table 3/4.3.7.8-1 from two to three. The additional smoke detector would be installed as a result of modifications to the control rod drive (CRD) maintenance rebuild room. The modifications would include installation of a suspended ceiling. The suspended ceiling would further enclose the CRD maintenance rebuild room to facilitate cleanup, provide improved control air movement, and limit the spread of airborne contamination which could occur during work on CRDs. Currently, the room has a smoke detector installed in the ceiling. The new detector would be installed below the suspended ceiling and in the same detector zone as the currently installed detector. Zone SD-100 in the Auxiliary Building-General Area West, Elevation 95'9" currently has two smoke detectors.

EVALUATION

The staff reviewed the proposed change for conformance with Standard Review Plan Section 9.5.1, which includes Branch Technical Position (BTP) CMEB 9.5-1. BTP CMEB 9.5-1 contains the technical requirements of Appendix R to 10 CFR 50 and BTP ASB 9.5-1 for fire protection systems. Section III.F of Appendix R to 10 CFR 50 requires automatic fire detection in all areas of the plant that contain or present an exposure fire hazard to safe shutdown or safety-related systems or components. The CRD maintenance room is such an area. Section C.5.a.11 of BTP CMEB 9.5-1 requires suspended ceilings be constructed of noncombustible material and that concealed spaces be devoid of combustibles. Additionally, Section 5.d(1) states that safety-related systems should be isolated or separated from combustible material. When this is not possible, special protection should be provided.

The licensee has proposed the installation of a metal noncombustible suspended ceiling in the CRD maintenance room which would create a concealed space with combustibles. The combustibles consist of IEEE-383 rated electrical cables in open cable trays. In accordance with the above guidelines the existing fire detection will remain as automatic suppression (wet pipe sprinklers), will be provided over all combustibles, and will be fed from an existing system. This will provide adequate protection for the concealed space.

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The new fire detector will be installed below the new suspended ceiling and will be tied into the existing room detection system. The new detector will be an ionization type fire detector identical in all aspects to the existing fire detector which will be in the concealed space after installation of the suspended ceiling. The addition of the fire detector below the suspended ceiling increases the total number of detectors in the zone to three, thus making the change to TS Table 3/4.3.7.8-1 necessary.

Based on its evaluation, the staff finds that the proposed change is in accordance with Appendix R to 10 CFR 50 and BTP CMEB 9.5-1 and is, therefore, 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: August 21, 1990

Principal Contributor: C. Abbate