GULF STATES UTILITIES COMPANY

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AREA CODE 409 838 6631

July 24, 1985
RBG - 21649
File No. G9.5

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

River Bend Station - Unit 1
Docket No. 50-458

Enclosed for your review is Gulf States Utilities Company's change to the Final Safety Analysis Report (Enclosure 1). These revisions are provided as a result of the Nuclear Regulatory Commission's Containment Systems Branch review of a letter submittal from J. E. Booker to H. R. Denton dated July 19, 1985 (RBG-21,573) with respect to recirculation flow control hydraulics penetrations. These changes have been previously discussed with your staff.

Sincerely,

J. E. Booker

J. E. Booker
Manager - Engineering
Nuclear Fuels & Licensing
River Bend Nuclear Group

JEB/ERG/lEP

Enclosure (1)

B001
1/1

ENCLOSURE 1

TABLE 6.2-51 (Cont

Drywell Pen. No.	System	Fluid	Line Size (in.)	ESF System	Through Line Leakage Classification	FSAR Arrg't. Fig. No.	Isolation Valve No.	Location of Valve Inside Drywell	Location of Valve Outside Drywell
1DRB*Z152	Recirculation flow control hydraulics (9)	Hyd	1	No Yes	Cont	N/A	1RCS*MOV58A	X	X
~~1DRB*Z152~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1~~	~~Yes~~	~~Cont~~	~~N/A~~	~~1RCS*V132~~		~~X~~
1DRB*Z153	Recirculation flow control hydraulics (9)	Hyd	1	No Yes	Cont	N/A	1RCS*MOV59A	X	X
~~1DRB*Z153~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1~~	~~Yes~~	~~Cont~~	~~N/A~~	~~1RCS*V131~~		~~X~~
1DRB*Z154	Recirculation flow control hydraulics (9)	Hyd	1/2	No Yes	Cont	N/A	1RCS*MOV60A	X	X
~~1DRB*Z154~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1/2~~	~~Yes~~	~~Cont~~	~~N/A~~	~~1RCS*V162~~		~~X~~
1DRB*Z155	Recirculation flow control hydraulics (9)	Hyd	3/4	No Yes	Cont	N/A	1RCS*MOV61A	X	X
~~1DRB*Z155~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~3/4~~	~~Yes~~	~~Cont~~	~~N/A~~	~~1RCS*V156~~		~~X~~
1DRB*Z156	Recirculation flow control hydraulics (9)	Hyd	1	No	Cont	N/A	1RCS*MOV58B	X	X
~~1DRB*Z156~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1~~	~~No~~	~~Cont~~	~~N/A~~	~~1RCS*V187~~		~~X~~
1DRB*Z157	Recirculation flow control hydraulics (9)	Hyd	1	No	Cont	N/A	1RCS*MOV59B	X	X
~~1DRB*Z157~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1~~	~~No~~	~~Cont~~	~~N/A~~	~~1RCS*V186~~		~~X~~
1DRB*Z158	Recirculation flow control hydraulics (9)	Hyd	1/2	No	Cont	N/A	1RCS*MOV60B	X	X
~~1DRB*Z158~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~1/2~~	~~No~~	~~Cont~~	~~N/A~~	~~1RCS*V217~~		~~X~~
1DRB*Z159	Recirculation flow control hydraulics (9)	Hyd	3/4	No	Cont	N/A	1RCS*MOV61B	X	X
~~1DRB*Z159~~	~~Recirculation flow control hydraulics (9)~~	~~Hyd~~	~~3/4~~	~~No~~	~~Cont~~	~~N/A~~	~~1RCS*V211~~		~~X~~
1DRB*Z160 (Type seal support)	Wide range level control	Water	1	No	Cont	N/A	N/A		N/A
1DRB*Z161 (Type seal support)	Vent line	N/A	N/A	N/A	N/A	N/A	N/A		N/A

RBS FSAR

TABLE 6.2-51 (CONT)

Valve										
		Actuation Mode		Position					Closure Time	
Type	Operator	Primary	Secondary	Normal	Shutdown	Post-Accident	Power Failure	Isolation Signal	(Sec)	Power Source
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	11	A
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	10.6	A
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	6.3	A
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	8.6	A
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	10.6	B
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	10.8	B
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	6.38	B
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
Globe	MOV	Elect	Manual	Open	Open	Closed	FAI	B,K,RM	8.9	B
~~Gate~~	~~MV~~	~~Manual~~	~~N/A~~	~~Open~~	~~Open~~	~~Closed~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(right half) 7 of 9

NOTES

(1) Testable check valves are designed for remote opening with zero differential pressure across the seat. The valves close on reverse flow even though the test switches may be positioned for open. The valves open when pump pressure exceeds reactor pressure even though test switch may be positioned for close.

(2) The ac motor-operated valves are powered from the designated ac standby bus. Dc motor-operated isolation valves are powered from the designated plant battery.

(3) All motor-operated isolation valves remain in the last position upon failure of valve power. All air-operated valves close on motive air failure. All air-operated valves close on power failure to the solenoid pilots.

(4) Normal status position of valve (open or close) is the position during normal power operation of the reactor (see Position-Normal column.)

(5) Closing time is based upon valve closure rate and line size.

(6) These are instrument isolation valves that are required to remain open during a LOCA.

(7) Some valves located within the drywell serve as containment isolation valves. These valves are located in Table 6.2-40, Containment Isolation Provisions for Fluid Lines.

(8) Injection solution is sodium pentaborate.

(9)
Isolation Signal Codes

B - Reactor Vessel Low Water Level 2
K - High Drywell Pressure
RM - Remote Manual Operation as Appropriate
E - Main Steam Line Radiation High
A - Reactor Vessel Low Water Level 1

SGTS - Standby Gas Treatment System
Cont - Containment
AOV - Air-Operated Valve
MOV - Motor-Operated Valve
FC - Fail Close
FAI - Fail As Is
MV - Manual Valve
SOV - Solenoid-Operated Valve
LO - Locked Open
LC - Locked Close

A single failure of one division of electrical power could result in the failure to isolate four recirculation flow control hydraulics penetrations. However, the potential drywell bypass leakage through these four penetrations would be only a small fraction (less than 2%) of the total calculated allowable bypass leakage capacity of $A/\sqrt{k}$ of 1.0 ft^2.