

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
RIVER BEND STATION, UNIT 1DOCKET NUMBER (2)  
050000-531 OF 03

TITLE (4)

Reactor Water Cleanup Isolation Resulting from Leaking Valves

EVENT DATE (6)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)				
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME		DOCKET NUMBER (5)		
1	2	8	5	05	9	0	0	1	2	2	8	6	050000

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § 1.106 AND IS MADE AT THE FOLLOWING (11)																								
2	<table border="1"><thead><tr><th>20.050000</th><th>20.050000</th><th>20.050000</th><th>20.050000</th></tr></thead><tbody><tr><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td></tr><tr><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td></tr><tr><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td></tr><tr><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td></tr><tr><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td><td>20.050000(1)</td></tr></tbody></table>	20.050000	20.050000	20.050000	20.050000	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)	20.050000(1)
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LICENSEE CONTACT FOR THIS LER (12)  
NAME  
C. E. DeweeseTELEPHONE NUMBER  
AREA CODE  
504 635-6094

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)  
NO  
EXPECTED SUBMISSION DATE (15)  
05 01 86

ABSTRACT (Limit to 1400 words) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

At 1107 on 12/23/85 with the unit in operational condition 2 (startup), the Reactor Water Cleanup (RWC) Division 1 isolation valves isolated. Investigation revealed an RWC high differential flow alarm at 1106 followed by the isolation. Cause of the isolation was attributed to a narrow leak rate margin and a 10 to 15 gpm leak through two air operated valves. Repairs on the valves have been completed and only their retest requirements remain to be performed. There was no impact on the health and safety of the public as all leakage through the subject valves discharged into the RWC backwash receiving tank.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED FOR RELEASE  
EXPIRES 12-31-95

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (4)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
RIVER BEND STATION	0 5 0 0 0 4 5 8	8 5	- 0 5 9	- 0 0	0 2 OF 0 3

TEXT (5) IF MORE THAN 6 FIGURES, USE ADDITIONAL NRC Form 2004 (6) (17)

At 1106 on 12/23/85 while in the process of going from 7 to 11 percent power, an Reactor Water Cleanup (RWCU) Division 1 isolation occurred shortly after a RWCU high differential flow alarm was energized thereby tripping both RWCU pumps A and B. The isolation was caused from an indicated RWCU differential flow signal in excess of the isolation setpoint of 55 gpm. At 1600 RWCU pump A was started and RWCU put back into service with no further problems occurring.

Investigation into the cause of the occurrence determined that a combination of factors generated the isolation signal. Prior to the isolation an operator noticed that a relief valve (G36-RVF086) in the air supply line to the train 'A' filter demineralizer lifted when putting the demineralizer into service. Investigation revealed approximately a 10-15 gpm leakage through the train 'A' demineralizer make ready valve G36\*AOVF013A and the train 'A' demineralizer service air control valve G36\*AOVF014A, both of which are used when backwashing the demineralizer through relief valve G36-RVF086 to the backwash receiving tank. Maintenance Work Request No. 11497 had been written to repair the leaking valves but before being worked the subject isolation occurred. Examination of the valves revealed seat leakage due to crud buildup. A second contributing cause for the isolation is attributed to a narrow leak rate margin at normal operating temperature. The RWCU leak

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED TIME NO. 10-1-14  
EXP. RES. 2-1-15

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (3)

PAGE (3)

RIVER BEND STATION

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TEXT IF MORE SPACE IS REQUIRED, USE ADDITIONAL NRC Form 255A (1/77)

detection instrumentation read an indicated leak rate of 18 to 20 gpm at rated temperature even when there was no leakage, thereby reducing the allowable leak rate margin.

Immediate action was taken to complete MWR 11497 to repair the leaking valves. In an effort to prevent future RWCU isolations a task force has been formed from engineering and operations personnel to investigate ways to improve the design and operation of the RWCU systems, including widening the leak rate margin. Results of this investigation are expected by 5/1/86 at which time a supplemental report will be supplied. There was no impact on the health and safety of the public as all leakage through the subject valves discharged into the RWCU backwash receiving tank.



**GULF STATES UTILITIES COMPANY**

RIVER BEND STATION    POST OFFICE BOX 220    ST FRANCISVILLE, LOUISIANA 70775  
AREA CODE 504    635-6094    346-8651

January 22, 1986

RBG-

File Nos. G9.5, G9.25.1.3

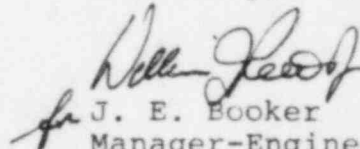
U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Dear Sir:

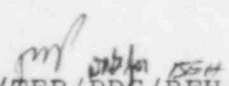
River Bend Station - Unit 1  
Docket No. 50-458

Please find enclosed Licensee Event Report No. 85-059 for River Bend Station - Unit 1. This report is submitted pursuant to 10CFR50.73.

Sincerely,



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

  
JEB/TFP/PDG/BEH/amg

cc: U. S. Nuclear Regulatory Commission  
611 Ryan Plaza, Suite 1000  
Arlington, TX 76011

INPO Records Center  
1100 Circle 75 Parkway  
Atlanta, GA 30339-3064

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