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GULF STATES UTILITIES COMPANY

RIVER BEND STATION POST OFFICE BOX 220 ST FRANCISVILLE, LOUISIANA 7077
AREA CODE 504 635 6094 346-8651

January 22, 1986
*RBG- 23040
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
for J. E. Booker
Manager-Engineering,
Nuclear Fuels & Licensing
River Bend Nuclear Group

JEB
JEB/TFP/PDG/BEH/amg

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

INPO Records Center
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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) RIVER BEND STATION, UNIT 1 DOCKET NUMBER (2) 050000-38 OF 03

TITLE (4) Reactor Water Cleanup Isolation Resulting from Leaking Valves

EVENT DATE (8)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)														
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER(S)													
1	2	2	3	8	5	8	5	0	5	9	0	0	0	1	2	2	8	6	0	5	0	0	0

OPERATING MODE (9) 2

POWER LEVEL (10) 01017

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 18 CFR § 20.111. Check one or more of the following (11)

20.120000	<input type="checkbox"/>	20.120001	<input type="checkbox"/>	20.120002	<input checked="" type="checkbox"/>	20.120003	<input type="checkbox"/>	20.120004	<input type="checkbox"/>	20.120005	<input type="checkbox"/>	20.120006	<input type="checkbox"/>	20.120007	<input type="checkbox"/>	20.120008	<input type="checkbox"/>	20.120009	<input type="checkbox"/>	20.120010	<input type="checkbox"/>	20.120011	<input type="checkbox"/>	20.120012	<input type="checkbox"/>	20.120013	<input type="checkbox"/>	20.120014	<input type="checkbox"/>	20.120015	<input type="checkbox"/>	20.120016	<input type="checkbox"/>	20.120017	<input type="checkbox"/>	20.120018	<input type="checkbox"/>	20.120019	<input type="checkbox"/>	20.120020	<input type="checkbox"/>
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OTHER Safety - Advisory Panel and a Test NRC Form 300A

LICENSEE CONTACT FOR THIS LER (12) NAME: C. E. Dewese

AREA CODE: 504 TELEPHONE NUMBER: 635-16094

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THE REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

EXPECTED SUBMISSION DATE (15) MONTH: 05 DAY: 01 YEAR: 1986

YES (if no complete EXPECTED SUBMISSION DATE) NO

ABSTRACT (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 BY THE NATIONAL ARCHIVES
REF ID: A63883

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

TEXT IS PRINTED UNDER THE FOLLOWING AND INDICATES NRC Form 200A (1/77)

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

FACILITY NAME (1) RIVER BEND STATION	DOCKET NUMBER (2) 0 5 0 0 0 4 5 8	LER NUMBER (3)		PAGE (4) 0 3 OF 0 3
		LER NUMBER (3) 815	SEQUENTIA L NUMBER (3) 059	

TEXT IF MORE SPACE IS REQUIRED, USE ADDITIONAL NRC Form 200A (17)

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.