



GULF STATES UTILITIES COMPANY

RIVER BEND STATION POST OFFICE BOX 220 ST. FRANCISVILLE, LOUISIANA 70775

AREA CODE 504 636-6084 346 8651

May 17, 1993

RBG- 38516

File Nos. G9.5, G9.25.1.3

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

Gentlemen:

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

Please find enclosed Licensee Event Report No. 93-005 for River Bend Station - Unit 1. This report is submitted pursuant to 10CFR50.73.

Sincerely,

J. E. Booker
Manager - Safety Assessment
and Quality Verification
River Bend Nuclear Group

Handwritten initials: RJK, JPS, DCH, CLM, kvm
LAE/JPS/FRC/DCH/CLM/kvm

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cc: U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

NRC Resident Inspector
P.O. Box 1051
St. Francisville, LA 70775

INPO Records Center
700 Galleria Parkway
Atlanta, GA 30339-5957

Mr. C.R. Oberg
Public Utility Commission of Texas
7800 Shoal Creek Blvd., Suite 400 North
Austin, TX 78757

Department of Environmental Quality
Radiation Protection Division
P.O. Box 82135
Baton Rouge, LA 70884-2135
ATTN: Administrator

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) RIVER BEND STATION	DOCKET NUMBER (2) 05000 458	PAGE (3) 1 OF 4
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TITLE (4) **INADEQUATE SURVEILLANCE TEST PROCEDURE FOR REACTOR CORE ISOLATION COOLING STEAM FLOW-HIGH TIMER FUNCTION**

EVENT DATE (5)			LER NUMBER (6)			REPORT NUMBER (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
04	15	93	93	005	00	05	17	93		05000
										05000

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)									
POWER LEVEL (10) 100	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)						
	20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER						
	20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	(Specify in Abstract below and in Text, NRC Form 366A)						
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
	20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)							

LICENSEE CONTACT FOR THIS LER (12)

NAME L.A. ENGLAND, DIRECTOR-NUCLEAR LICENSING	TELEPHONE NUMBER (include Area Code) (504) 381-4145
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On April 15, 1993 with the plant at 100 percent power (Operational Condition 1) during a logic system functional test procedure review program, it was discovered that the reactor core isolation cooling (RCIC) steam line flow - high timer function was not being adequately tested as required by Technical Specification (TS) Surveillance Requirement 4.3.2.1 Table 4.3.2.1-1.5.b. This surveillance is a monthly channel functional test that had never been performed on a monthly frequency. Note that a quarterly channel calibration surveillance implemented all of the requirements except the monthly frequency. This report is submitted pursuant to 10CFR50.73(a)(2)(i)(b) as a condition of operation prohibited by the Technical Specifications.

The root cause of this event was the failure to include a monthly channel functional test in the initial procedure development process. Additional investigation revealed that this condition was also missed in subsequent reviews and revisions of these STPs. Corrective actions include revisions to the appropriate STPs to implement the monthly channel functional test, training for responsible personnel on this event, and retraining on the Technical Specification definitions for channel calibration, channel functional and logic system functional tests.

REQUIRED NUMBER OF DIGITS/CHARACTERS
FOR EACH BLOCK

BLOCK NUMBER	NUMBER OF DIGITS/CHARACTERS	TITLE
1	UP TO 46	FACILITY NAME
2	8 TOTAL 3 IN ADDITION TO 05000	DOCKET NUMBER
3	VARIES	PAGE NUMBER
4	UP TO 76	TITLE
5	6 TOTAL 2 PER BLOCK	EVENT DATE
6	7 TOTAL 2 FOR YEAR 3 FOR SEQUENTIAL NUMBER 2 FOR REVISION NUMBER	LER NUMBER
7	6 TOTAL 2 PER BLOCK	REPORT DATE
8	UP TO 18 - FACILITY NAME 8 TOTAL - DOCKET NUMBER 3 IN ADDITION TO 05000	OTHER FACILITIES INVOLVED
9	1	OPERATING MODE
10	3	POWER LEVEL
11	1 CHECK BOX THAT APPLIES	REQUIREMENTS OF 10 CFR
12	UP TO 50 FOR NAME 14 FOR TELEPHONE	LICENSEE CONTACT
13	CAUSE VARIES 2 FOR SYSTEM 4 FOR COMPONENT 4 FOR MANUFACTURER NPRDS VARIES	EACH COMPONENT FAILURE
14	1 CHECK BOX THAT APPLIES	SUPPLEMENTAL REPORT EXPECTED
15	6 TOTAL 2 PER BLOCK	EXPECTED SUBMISSION DATE

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

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FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (6)			PAGE (3)
RIVER BEND STATION		05000	458	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	OF
				93	005	00	2 OF 4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

REPORTED CONDITION

On April 15, 1993 with the plant at 100 percent power (Operational Condition 1) during a logic system functional test procedure review program, it was discovered that the reactor core isolation cooling (*BN*) (RCIC) steam line flow - high timer function was not being adequately tested as required by Technical Specification (TS) Surveillance Requirement 4.3.2.1 Table 4.3.2.1-1.5.b. This surveillance is a monthly channel functional test that had never been performed on a monthly frequency. Therefore, this report is submitted pursuant to 10CFR50.73(a)(2)(i)(b) as a condition of operation prohibited by the Technical Specifications.

INVESTIGATION

A review of the STP history revealed that there has never been a monthly channel functional test for the RCIC steam flow - high timer function. Surveillance test procedures STP-207-4294 and STP-207-4295 satisfy all the requirements of this function but are performed quarterly. Surveillance test procedures STP-207-4536 and STP-207-4237 state in their purpose sections that they satisfy the requirement for the monthly channel functional test. A review of the RBS Technical Specification cross-reference matrix showed that the matrix identified STP-207-4536 and STP-207-4237 as the procedures which satisfied the surveillance requirements for the missed monthly channel functional test. These tests did not verify the operability of the timer itself, only the function of the steam line flow - high trip unit. These STPs have not satisfied the requirements since their origination in 1988. Prior to 1988, STP-207-4294 and STP-207-4295 were identified as satisfying the monthly surveillance requirement; however, these STPs also did not meet the requirements for a monthly channel functional test of the RCIC steam flow - high timer. Therefore, this condition existed since the original procedure development in 1985.

Based on previous events, all personnel responsible for technical reviews of STPs were recently trained on the requirements for performing 10CFR50.59 applicability reviews which specifically covered use of the Technical Specification and USAR requirements; however the investigation revealed that no formal training on the technical requirements for verification of channel functional test, channel calibration, and logic system functional test (LSFT) requirements had been provided.

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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

ROOT CAUSE

The root cause of this event was the failure to include a monthly channel functional test in the initial procedure development process for the identified STPs. A secondary causal factor was identified in the failure of personnel performing previous procedure reviews and revisions to identify this condition. This causal factor was determined by reviewing the actions taken by procedure reviewers to verify Technical Specification conformance during the procedure revision process. Discussions with some of the procedure reviewers revealed that, for procedure revisions, the purpose section of the procedure and the cross-reference matrix were used to verify that the procedure satisfied the surveillance requirement as stated in the applicable section of the Technical Specification. Only the specific changes were reviewed for impact on these requirements. Ensuring that the information **within the body of the STP** still contained the steps required to satisfy the surveillance requirements was not a standard practice for all reviewers of procedure revisions until it was identified in the recent 10CFR50.59 training.

A review of previous LERs for similar events was conducted. This revealed that LERs 89-003, 91-020, 92-014, and 93-002 described similar conditions where STPs failed to satisfy the surveillance requirements as identified in the Technical Specifications. In each case, corrective actions were implemented to improve the review process for verification of Technical Specification conformance.

CORRECTIVE ACTION

The immediate corrective action was the performance of STP-207-4294 and STP-207-4295 (quarterly channel calibration) to demonstrate operability of the timers. These STPs were successfully completed.

Surveillance test procedures STP-207-4536 and STP-207-4537 have been revised to include adequate steps to satisfy all requirements of a channel functional test. These STPs are scheduled to be performed on a monthly basis to satisfy the frequency requirements of Technical Specification 4.3.2.1 Table 4.3.2.1-1.5.a and b. These revisions have been completed as of 5/10/93.

Personnel responsible for performing independent reviews and final approval of STP revisions will be trained on the subject of this LER. Additionally, the subject and location of definitions in the Technical Specification for channel functional, channel calibration and LSFT's will be included. The

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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

expected completion date for this training is December 31, 1993.

SAFETY ASSESSMENT

The Technical Specification surveillance requirements for the channel functional test of the RCIC steam flow - high timer were not satisfied at the frequency specified. However, the components were verified to be functioning properly every quarter under the channel calibration STP. This provides confidence that the RCIC steam flow - high timers have not been inoperable and have been capable of performing their design basis function.

NOTE: Energy industry identification codes are indicated in the text as (*XX*).