GULF STATES UTILITIES COMPANY

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

AREA CODE 504 635-6094 346-8651

March 1, 1993

RBG- 38197
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 Revision 2 to Licensee Event Report No. 92-024 for River Bend Station -Unit 1. This supplement is submitted to provide the root cause.

Sincerely,

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

LAE/JPS/FRC/DCH/RWM/kvm

090086

IE22 1/1

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
1100 Circle 75 Parkway
Atlanta, GA 30339-3064

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

NRC FORM 366 (5-92) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95

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.

LICENSEE EVENT REPORT (LER)

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

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
RIVER BEND STATION	05000 458	1 OF 3

TITLE (4): EQUIPMENT PROBLEMS IN THE CONTROL BUILDING VENTILATION SYSTEM RESULTS IN ENTRY INTO TECHNICAL SPECIFICATION 3.0.3

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
										05000
10	18	92	92	-- 024 --	02	03	01	93	FACILITY NAME	DOCKET NUMBER 05000

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)			
		20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)	100	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	TELEPHONE NUMBER (Include Area Code)
L.A. ENGLAND, DIRECTOR - NUCLEAR LICENSING	(504) 381-4145

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X	NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On October 18, 1992 at 0355, equipment problems with the control building ventilation system rendered both Divisions of the system inoperable. Chiller HVK*CHL1D tripped while chiller HVK*CHL1B was inoperable due to an ongoing annual preventive maintenance task. The Division I control building ventilation system chillers, HVK*CHL1A and HVK*CHL1C, were inoperable following a fault on panel, SCV*PNL8A1. Technical Specification (TS) 3.0.3 was entered and power reduction began at 0409. In NUREG 1022, Supplement 1 ("Licensee Event Report System"), Section II, the answer to question 2.4 states that when TS 3.0.3 is entered, "the plant is operating with a condition prohibited by the plant's Technical Specifications." Therefore, this report is submitted pursuant to 10CFR50.73(a)(2)(i)(b).

At 0622 on October 18, 1992, HVK*CHL1A was restored. This permitted TS 3.0.3 to be exited, and initiation of power ascension.

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

REPORTED CONDITION

On October 18, 1992 at 0355, equipment problems with the control building ventilation system rendered both Divisions of the system inoperable. Chiller HVK*CHL1D (*CHU*) tripped while chiller HVK*CHL1B (*CHU*) was inoperable due to an ongoing annual preventive maintenance task. The Division I control building ventilation system (*VI*) chillers (*CHU*), HVK*CHL1A and HVK*CHL1C, were inoperable following a fault on panel SCV*PNL8A1. Technical Specification (TS) 3.0.3 was entered and power reduction began at 0409. In NUREG 1022, Supplement 1 ("Licensee Event Report System"), Section II, the answer to question 2.4 states that when TS 3.0.3 is entered, "the plant is operating with a condition prohibited by the plant's Technical Specifications." Therefore, this report is submitted pursuant to 10CFR50.73(a)(2)(i)(b).

INVESTIGATION

Problems with HVK*CHL1D were identified at 0211 on October 18, 1992. Troubleshooting efforts resulted in restarting the chiller, but it tripped again at 0311. At 0349, the chiller was restored a second time; however, a faulty flow switch was suspected in the Division II air handling unit. The Division II control building ventilation system (HVK) was declared inoperable at 0355. At 0409, power reduction began in accordance with TS 3.0.3. The combination of an inoperable safety related control panel (Division I), a chiller trip, (Division II) and another chiller (Division II) being down for an annual PM, led to the entry into TS 3.0.3.

Due to the failure of panel SCV*PNL8A1 (*PL*) on October 16, 1992, all equipment on circuits fed from the panel was declared inoperable, including the Division I control building chillers, HVK*CHL1A and HVK*CHL1C. Maintenance work orders (MWOs), were written to troubleshoot and restore the affected equipment on a prioritized basis. When chiller HVK*CHL1D was declared inoperable, work packages for HVK*CHL1A and 1C were finalized and at 0622 on October 18, 1992, HVK*CHL1A was restored. This permitted TS 3.0.3 to be exited, and initiation of power ascension. Note that the fault on panel SCV*PNL8A1 was due to a failed ground wire that had become loose.

ROOT CAUSE

The combination of an inoperable safety related control panel (Division I), a chiller trip, (Division II) and another chiller (Division II) being down for an annual PM, led to the entry into TS 3.0.3.

During troubleshooting, GSU identified a faulty time delay relay as the likely root cause. GSU's investigation has since revealed that the root cause of the failure of HVK*CHL1D was a faulty electrical circuit in the refrigerant discharge high temperature switch. The root cause was identified by systematically eliminating problems and potential root causes until the root cause was identified.

A review of previous LERs revealed similar events in LERs 90-002 and 92-025. Each of these LERs reported equipment problems in the control building ventilation system that resulted in entry into TS 3.0.3.

CORRECTIVE ACTION

The corrective action was to restore chiller HVK*CHL1A, declare Division I operable, and exit TS 3.0.3. Additional corrective action was to complete the PM on the Division II chiller, HVK*CHL1B and return it to service. The sensor and switch for the faulty circuit were replaced. All connections were reworked. Following rework, the wiring and components were verified to be functional. Chiller HVK*CHL1D was restored to service on February 2, 1993.

SAFETY ASSESSMENT

The intended function of the control room ventilation system is to provide cooling to maintain ambient control room temperatures at design conditions. Technical Specification bases 3/4.7.2, "MAIN CONTROL ROOM AIR CONDITIONING SYSTEM" states in part "The OPERABILITY of the main control room air conditioning system ensures that (1) the ambient air temperature does not exceed the allowable temperature (less than or equal to 104 degrees F) for continuous duty rating for the equipment and instrumentation cooled by this system and (2) the control room will remain habitable for operations personnel during and following all design basis accident conditions. The control room ventilation system was at all times available, but not operable. A plant shutdown was initiated in accordance with TS 3.0.3 and was terminated when the Division I chiller (HVK*CHL1A) became available.