NRC form 366 (9-83) :		LIC	ENSE	E EVE	NT REP	PORT	(LER)	U S. NU	APPROVED OMB	NO 3150-01	ISSION M
FACILITY NAME IC								DOCKET NUMBER	(2)	PAG	£ (3)
RIVE	ER BEND STAT	ION	1			1.13		0 5 0 0	1014 1518	1 OF	0 3
Reactor	r Scram On Ti	urbine	Trip	Due T	o High	vibr	ation Si	gnal			
EVENT GATE (5)	LER NUMBER IG		RE	PORT DAT	E (7)		OTHER	FACILITIES INVO	LVED (8)		
MONTH DAY YEAR YEA	AR SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR		FACILITY NA	MES	DOCKET NUMBE	ER(S)	
					-				0 5 0 0	101-	11
0 5 1 9 8 6 8	6 0 3 9	- 0 1	0 5	2 7	8 8				0 15 10 10	0101	1.1
OPERATING MODE (9)	20 402(b)	PURSUANT	20 405	EQUIREME	NTS OF 10	CFR	50 73(a)(2)(w)	of the following! ()	73.71(b)		
POWER	20.406(4)(1)(i)		50 38 ic)(1)			50 73(a)(2)(v)		73.71(c)		
(10) 0 1 7 1 3	20.405(a)(1)(ii)		50.36(c)(2)				50 * J(d)(2)(vii)		OTHER /Specify in Abstract		
	20.405(a)(1)(ai)	-	50.73(1(2)(i)		_	50.73(a)(2)(visi)(A)		366A)		
	20.405(a)(1)(iv)		50.73(H(2)(m)			50 73(a)(2)(viii))		12.00		
1			ICENSEE	CONTACT	FOR THIS	LER (12)			L		
NAME								1001 10001	TELEPHONE NU	WBER	
L. A. Eng	gland - Direc	ctor-Nu	clear	lear Licensing				E O I	3 9 1	- 4.1	
	COMPLETE	NE LINE FOR	EACH C	OMPONENT	FAILURE	DESCRIBE	D IN THIS REPOR	10 4 AT (13)	121011	7 411	4
	MANUFA	REPORTABLE			T	-		MANUFAC	REPORTABLE	-	
CAUSE SYSTEM COMPONEN	TURER	TO NPROS			CAUSE	STSTEM	COMPONENT	TURER	TO NPROS		
C IIV VITI I	G[0[8]0	N					-1-1-1-	1.1.1			
			L		1		1.1.1	-1-1-1	Luca		LUEAR
	SUPPLEMEN	TAL REPORT	EXPECT	ED (14)	- 1 -			EXPECT SUBMISS DATE 1	ED (0N (5)	DAT	TEAR
At 0654 on actuation o and 3. Mai closely wit approximate percent pow signal caus reactor scr bearing vib signal. Wo changes the pre-action system from All systems There was n adverse aff safety of t conservativ	5/19/86 an ccurred. n turbine h no abnor ly 0709. er, the ma ing a clos am. Inves ration pro rk per a M turbine b type. Thi spraying responded o actual h ect on the he public e conditio	inadv This a operat maliti At 142 in tur ure of tigati be cab odific caring s chan water norma igh vi safe since n.	erte ion, es r 0 the bine the on r le c atic ion fir ge w unle lly brat the	ent f incontration	ire p delu ludir . Th ame of pped bine led v ctor quest otect preven act he tu other n of tor s	orote iged iged iged ine ac lay, on a stop vater whice thas ion ent t ual arbin wise the scram	ection d main tu bration tuation with th high b valves accumu cause been c system the fire fire is e trip indica plant o placed	eluge sy rbine be , was me was see e unit a earing y and a lation i d a fals ompleted from a d suppres present and read ted. Th r to the the unit	ystem earings onitored cured at at 73 vibratic subseque in the f se trip d which deluge t ssion wa t. ctor scr here was e health it in a	1, 2 1, 2 1	
8806070143 PDR ADOCK S	880527 05000458 DCD							-	120	21	1

NRC Form 366A		A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR OF A C	US NUCLEAR REGUL	ATORY COMMISSION	
LICENSEE	EVENT REPORT (LER) TEXT CON	APPROVED OMB NO 3150-0104 EXPIRES 8/31 88			
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NU	MBER (6)	PAGE (3)	
RIVER BEND STATIO	N	YEAR SECT	UENTIAL REVISION UNBER NUMBER		

0 15 10 10 10 14 15 8 8 16 - 0 3 9 - 0 1 0 2 OF 0 3

TEXT (# more space is required, use additional NRC Form 3864's) (17)

REPORTED CONDITION

At 0654 on 5/19/86 the main turbine bearing fire protection deluge system (*KP*) inadvertently actuated. This actuation deluged main turbine (*TA*) bearings 1, 2 and 3. Main turbine operation, including vibration, was monitored closely with no abnormalities noted. The actuation was secured at approximately 0709. Investigation of the area and monitoring of the turbine operation revealed no unusual affects of the deluge. Normal operation continued until 1420 with the unit at 73 percent power when the main turbine tripped on #3 bearing high vibration resulting in a reactor scram. All systems responded normally to the turbine trip, i.e., the control (*FCV*) and stop (*SHV*) valves closed, the turbine by-pass valve (*XCV*) opened, and the reactor scrammed as designed. The reactor water level was properly maintained by the feedwater (*SJ*) flow.

INVESTIGATION

The cause of the deluge is indeterminate. The system is manually actuated only. Once actuated, the deluge continues until manually isolated. The switch (*HS*) used to initiate the system was found in (the normal position, although it may have been positioned to actuate and then repositioned to normal. From the results of the investigation, no conclusion could be made to determine if anyone was in the area to actuate the deluge system initiation switch. After isolating the deluge, inspections did not reveal any unusual or abnormal affects. After the turbine trip, the turbine bearing #3 vibration probe (*VE*) cable connection cover was removed and significant water accumulation was found. This caused a grounding of the connector, leading to a false high vibration signal. Evaluation of all parameters, including other vibration signals, and subsequent normal operation showed that no actual high vibration condition existed.

CORRECTIVE ACTION

The vibration probe cable connection covers were removed and any water accumulation present was dried. The vibration probe (General Electric Model 3S7700VB100) was functionally tested and found to respond properly. Modification Request (MR) 86-0167 was generated on 1/17/86 (ref. LER 86-005), to provide tamper proof switch covers on the deluge activation switches, in response to an inadvertent water curtain actuation. This work has been completed.

Initially, MR 86-0827 was initiated to install card readers on both doors to the fire protection room in the turbine building to provide access control and accountability of persons entering the room. This room contains fire protection isolation valves which can be manually opened to initiate the deluge system. However, MR 86-0827 has been

NRC Form 364A		U.S. NUCLEAR R	US NUCLEAR REGULATORY COMMISSION		
(9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUA	TION APPROVED EXPIRES 8	OMB NO 3150-0104 31.88		
	DOCKET NUMBER (2)				

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
DIVER DEND STATION		YEAR SEQUENTIAL REVISION		
RIVER BEND STATION	0 15 10 10 10 14 1 5 1	8 8 6 - 0 3 9 - 0 1	0 305 0 3	
TEXT (If more space is required, use additional NRC Form 3864 (s) (17)				

cancelled in favor of an alternate solution which was to change the fire suppression system actuation to a pre-action type.

Subsequently, MR 86-1584 was implemented as a solution to the problem. This MR changed the turbine bearing fire protection system from a deluge to a pre-action type. This change installed closed sprinkler heads which will prevent the fire suppression water system from spraying water unless an actual fire is present. This work has been completed. These corrective actions will provide the necessary protection against inadvertent or unnecessary water spray on the main turbine bearings.

In the interim, the deluge system had its manual isolation valve closed, under administrative control, to preclude inadvertent actuation.

SAFETY ASSESSMENT

All systems responded normally to the turbine trip and reactor scram. There was no adverse affect on the safe operation of the plant or to the health and safety of the public since the reactor scram placed the unit in a more conservative condition.

NOTE: Energy Industry Identification System Codes are identified in the text as (*XX*).



RIVER BEND STATION POST OFFICE 6UX 220 ST. FRANCISVILLE, LOUISIANA 70776 AREA CODE 504 635-6094 346-8651

> May 27, 1988 RBG-27995 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. 86-039 Revision 1 for River Bend Station - Unit 1. This report is being submitted to provide additional information.

Sincerely,

A. E. Becke

J. E. Booker Manager-River Bend Oversight River Bend Nuclear Group

JEB/TFP/PDG/RRS/ch

cc: U.S. Nuclear Regulatory Commission 611 Ryan Plaza Drive, Suite 1000 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