LICENSEE EVENT REPORT (LER)	U s	NUCLEAR REGULATORY COMMISSION APPROVED ONE NO 3150-0104 EXPIRES 8/01/96
River Bend Station	DOCKET NUM	
TITLE (4)		0 0 4 5 8 1 0F 0 4
Reactor Scram Due to Stuck Open Feed Water Regulate	or Valve	
MONTH DAY YEAR YEAR BEQUENTIAL NEVINON MONTH DAY YEAR FACILITY		OOCKET NUMBERIS
		0 5 0 0 0 1 1
0 1 1 5 8 6 8 6 0 0 7 0 0 0 2 1 4 8 6		0 15 0 10 01 1 1
OPERATING MODE (8) 1 20.402(6) 20.408(c) X 80,73(a)(2)		73.71(b)
POWER 20.406(a)(1)(i) 90.36(a)(1) 90.73(a)(2)	(w)	73.71(a)
(10) () 1 7 20.408(a)(1)(8) 50.38(a)(2) 50.73(a)(2)(1) 20.408(a)(1)(30) 50.73(a)(2)(1) 50.73(a)(2)(1) 50.73(a)(2)(1)		OTHER (Specify in Abstract below and in Tast NRC Form 366A)
20.405(a)(1)(h) 50.73(a)(2)(a) 50.73(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)(a)(2)		
20.405(a)(1)(v) 50.73(a)(2)(ii) 50.73(a)(1)(ii) 50.73(a)(1)(ii) 50.73(a)(1)(ii) 50.73(a)(1)(ii) 50.73(a)(1)(ii	a)	1
AME	AREA CO	TELEPHONE NUMBER
Richard H. Martin - Sr. Systems Engineer	5 10	4 6 3 5 - 6 0 9
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS R	1	
CAUSE SYSTEM COMPONENT MANUFAC. REPORTABLE CAUSE SYSTEM COMPONE	NT TURER	
		A Star Star Star
BUPPLEMENTAL REPORT EXPECTED (14)		MONTH DAY YEAR
YES (If yes complete EXPECTED SUBMISSION DATE)	SUBM	ICTED ISSION E IISI
BETRACT /Limit to 1400 speces, i.e., sporoximetery fifteen single-spece typewritten lines (18)	_	
On 01/15/86 at 0329 while preparing to line u	up one o	f the main feed
water regulator valves the operator placed the cor	ntrol s	witch for 'B'
feed water regulator valve inlet isolation valv	ID (IFWS	-MOV27B) to the
open position. When 1FWS-MOV27B started to come	open	reactor vessel
level increased rapidly to the reactor scram,	main tu	rbine trip, and
reactor feed pump trip setpoints. Immediate action	was t	aken to place
the unit in a safe shutdown condition. Feed w	vater pu	mp 1FWS-P1B was
restarted and level control was restored without	at diff	iculty. Plant
conditions were stabilized at 0341. Investigati	on late	r revealed that
the 'B' feed water regulator valve was stuck 70 per	cent op	en but appeared
closed with its controller indicating zero de	emand.	In an effort to
prevent recurrence a modification is underway to	provide	actual valve
position indication.		
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Reported Condition

On 01/15/86 at 0329 with the unit at 17 percent power and 950 psig, an automatic reactor scram occurred on high water level while attempting to line up the 'B' feedwater train. Prior to the scram the feedwater system was in normal line up with one feedwater pump (1FWS-P1B) maintaining level and the startup feedwater regulator valve (1C33-LVF002) in automatic. All feedwater regulator valves (1C33-LVF001A, B & C) were in manual and indicating zero demand on the controllers at panel P680 in the main control room. All feedwater regulator valve inlet isolation valves (1FWS-MOV27A, B & C) were closed. While attempting to line up 'B' feedwater regulator valve to control water level for continued power ascension, the operator placed the control switch for "B" feedwater regulator valve inlet isolation valve (1FWS-MOV27B) to the open position. However, the 'B' feedwater regulator valve was actually open with its controller indicating zero demand and water was injected into the vessel as 1FWS-MOV27B went open. Within a few seconds reactor vessel level increased to the reactor scram, main turbine, and reactor feed pump trip setpoints. Abnormal Operating Procedures AOP-0001 "Reactor Scram" and AOP-0002 "Main Turbine and Generator Trips" were entered to place the unit in a safe shutdown condition. Feedwater pump 1FWS-P1B was restarted and level control restored without difficulty. All steam loads were secured to minimize reactor plant cooldown. At 0341 plant conditions were stabilized.

IS-631 LICENSEE EVEN	T REPORT (LER) TEXT CONTINU	AT	ION	1					VED	OMB	NO		0104	
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Investigation

Upon visual inspection of the 'B' feedwater regulator valve, it was discovered that the valve was stuck approximately 70 percent open. Since the controller for this valve in the main control room only shows the demand signal, the valve appeared closed because the controller showed zero demand.

When the valve was disassembled, abrasions were found between the plug and the cage. The vendor was brought on site to inspect the valve and it was determined that the abrasions were caused by small particles wedging themselves between the plug and the cage at continuous low flow conditions. This was the first time the 'B' feed water regulator valve had been placed into service since the startup and test program.

Corrective Action

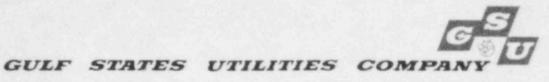
The valve plug and cage were polished to remove the high spots and to smooth out any pits. Two new sets of plug and cage with harder trim are on order and will be placed in the warehouse as spares to be used as needed.

In an effort to prevent a similar occurence, Maintenance Work Request 18905 has been initiated to repair the existing feed water regulator valve position indication to the Emergency Response Information System (ERIS). In the interim, Station Operating

NRC Form 388A (9-33) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OM8 NO 3150-0104 EXPIRES 4.31 85								
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Procedure SOP-009 "Reactor 86-191) to require an oper opening the feed water	rator to locally ver	rify valve positio	n before					
Furthermore, Modification positive feed water regula	n Request 86-0256	was initiated to	provide					
room.								

Safety Assessment

There were no safety consequences or implication to the public as a result of this event. The reactor scram, main turbine, and feed pump trip functions performed as designed to mitigate the consequences of a feed water level control failure.



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

> February 19, 1986 RBG- 23198 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. 86-007 for River Bend Station - Unit 1. This report is submitted pursuant to 10CFR50.73.

Sincerely,

J.E. Booky

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

JEB/TFP/DRG/BEH/ebm

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

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

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