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On 4/5/86 with the unit in cold shutdown, the Standby Service Water System experienced an inadvertent start. During the post maintenance energization of the Division III bus, Standby Service Water pump 1SWP\*P2C experienced a signal which started the component. 1SWP\*P2C is Division III powered. Subsequent investigation determined that the event was caused by an electrical transient. This event caused no hazard to the safe operation of the plant or the health and safety of the public.

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## REPORTED CONDITION

On 4/5/86 the Division III bus was energized after maintenance. The bus had been removed from service to implement transformer tap changes. Upon restoration of the bus, Standby Service Water pump 1SWP\*P2C, Division III, started. No engineered safety feature (ESF) signals for Standby Service Water were present at the time of the pump start.

## INVESTIGATION

Condition Report 86-0412 was initiated to identify the event and noted that along with the start of 1SWP\*P2C, annunciator "Division III DFR (Drain Floor Receiver) card out of file or Loss of Power" came in after re-energization of the Division III bus. By analyzing the Service Water and DFR schematic drawings a common DC power supply was found. This power supply powers the Rosemount trip units for the DFR card that alarmed and it also powers the Service Water (SWP) low pressure trip units for Division III. This power supply was de-energized during the work on the Division III transformer 1E22\*S002.

Available evidence indicates that when power was restored to Division III an electrical transient occurred in the 24 VDC power supply to the Rosemount trip units mentioned above, hence the alarm for the Division III DFR card. This transient caused the four, or two of the four Standby Service Water Division III trip units to pick up. Even if this actuation was only momentary the relay providing an

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TEXT (If more apace a required, use additional NRC Form 388A's) (17)		and the second se	and a second second second second second second						
automatic start signal to	o 1SWP*P2C would	pick up and se	eal in,						
beginning a 30 second time of	delay to pump start.	. Since the tra	ansient						
caused by the DC power	supply may have a	only been momentai	cy, the						
annunciator lights associate	ed with the SWP trip	o units may also	b have						
lit only momentarily and	would have gone unit	noticed. The only	/ other						
indication of the 1SWP*P2C	auto-start sequend	ce would have h	been a						
single white annunciator	light on the contr	col panel. After	the 30						
second time delay, pump 1SWI	P*P2C auto-started i	from what it saw	as a						
low SWP pressure signal	in the Division	I service water h	neader.						
Except for the start of 1SWI	P*P2C and the openin	ng of the pump dis	scharge						
valve 1SWP*MOV40C, control	lled by pump start,	, no other action	of the						
Service Water System occurre	ed.								

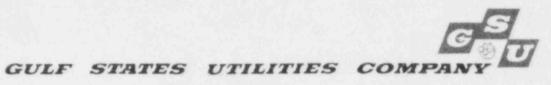
## CORRECTIVE ACTION

Immediate corrective action included securing 1SWP\*P2C and the initiation of Condition Report 86-0412. As stated above the investigation concluded that an electrical transient resulting from restoration of Division III power was the root cause of the ESF actuation as the investigation showed no abnormalities in the 1SWP\*P2C control logic. In an effort to prevent recurrence, an operator aid will be attached to the breaker for 1SWP\*P2C directing that 1SWP\*P2C be left in lock-out during re-energization of power or control circuits.

19-83) * LIC	ENSEE EVENT REPORT (LER) TEXT CONTINU	APPROVED C	UCLEAR REGULATORY COMMISSION APPROVED OMBINO 3150-0104 EXPIRES 8/31 85				
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SAFETY ASSESSMENT

At no time during this event was the plant or the public at any risk. The Service Water System was not in any degraded condition. Had an event occurred requiring Standby Service Water during the transient, Standby Service Water would have been available. No adverse effect on equipment was experienced as 1SWP\*P2C started on a normal start sequence.



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

> May 12, 1986 RBG- 23666 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. 86-029 for River Bend Station - Unit 1. This report is submitted pursuant to 10CFR50.73.

Sincerely,

Booker

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

JEB/TFF/DRG/BEH/je

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