

GULF STATES UTILITIES COMPA

RIVER BEND STATION POST OFFICE BOX 220 ST FRANCISVILLE, LOUISJANA 70775 AREA CODE 504 S35-6094 346-8651

> November 26, 1990 RBG- 34065 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. 90-634 for River Bend Station - Unit 1. This report is being submitted pursuant to 10CFR50.73.

Sincerely,

Manager-Oversight River Bend Nuclear Group

PDG/DEJ/DCH/RCL/pg

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

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

NEC FORM 300 U.S. NUCLEAR RED.	ULATORY	COMMISS	lion	APPROVED	OMB NO. 3150-010							
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At approximately 1338 on 10/27/90 Condition 5 (Refueling), the reactor on high neutron flux signals from int and G. No rod movement resulted from cause was shorting in two IRM 3 introduction of water into the connec pursuant to 10CFR50.73(a)(2)(iv) actuation.	wi prot erme thi euec tors as	th ecti diat s RP tor . T an	the uni on syste e range S actua connect his even engineer	t in C m (RPS) monitor tion. ors du t is ed saf	peration actuat s (IRMs The ro te to reportal ety (E)	nal ted) F pot the ple SF)						
The maintenance procedure governing c revised. A precaution will be add for ca when performing decontaminat instruments. In addition, prerequi integrity of the cable guards which p to CRD removal work.	ontr ed t ion site rote	ol r o al whil s wi ct t	od drive ert pers e in pro ll be ad he îRM c	remova onnel t ximity ded to onnecto	1 will to the net to nucle ver.fy rs, pr	be eed ear the ior						
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REPORTED CONDITION

At approximately 1138 on 10/27/90, with the unit in Operational Condition 5 (Refueling), the reactor protection system (RPS) (*JE*) actuated on high neutron flux signals from intermedfate range monitors (IRMs) (*IG*) F and G. All installed control rods were previously inserted and no additional rod motion occurred due to the RPS (*JE*) actuation. The root cause of this actuation was shorting in two IRM connectors due to the introduction of water into the connectors. This event is reportable pursuant to 10CFR50.73 (a)(2)(iv) as an engineered safety feature (ESF) actuation.

INVESTIGATION

On October 27, 1990, contract personnel had completed torquing of control rod drive mechanism flange bolts and were in the process of decontaminating the undervessel equipment handling platform using a water spray wand. Near the end of the decontamination operation, the RFS satuation occurred.

Following the RPS actuation, the operators followed plant procedures and reset the scram at 1142. Prompt maintenance work orders (MWOs) 056642 and 056648 were written to trouble shoot and repair the IRM connectors. Upon disassembly, maintenance personnel discovered water present in both connectors. The connectors were removed, dried, cleaned, and then replaced in their respective IRMs. The individual IRMs were tested satisfactorily per their surveillance test procedures and were returned to service.

CORRECTIVE ACTION

Following the RPS actuation, the shift supervisor suspended undervessel activities and initiated prompt MWOs to investigate IRM F and IRM G as stated in the investigation section. In addition, the plant manager reviewed the circumstances of the event with the personnel involved.

The maintenance procedure governing control rod drive removal will be revised. A precaution will be added to alert personnel to the need for care when performing decontamination while in proximity to nuclear instruments. In addition, prerequisites will be added to verify the integrity of the cable guards which protect the IRM connectors, prior to CRD removal work.

SAFETY ASSESSMENT

All installed control rods were inserted prior to this event. Note that some control rods had been removed for replacement. Additionally, no rod motion occurred as a result of the unplanned RPS

LICENSEE EVENT REPORT (LER)						APPROVED OME NO. 3150-0104 EXPIRES 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTIC REQUEST 500 HRS. FORWARD COMMENTS REGARDING BUHDEF STIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F430). US. NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20565. AND TO THE FAPERWORK REDUCTION FROLECT (S150-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON DC 20503.																	
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(*JE*) actuation, and the system responded as designed. Therefore, this event did not adversely affect the health and safety of the public.

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