LICENSEE EVENT REPORT (LER)								USNU	U.S. NUCLEAR REGULATORY COMMISSION APPROVED ONS NO 3150-0104 EXPIRES \$/31/86		
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US NUCLEAR REGULATORY COMMISSION

APPROVED ONE NO 3150-0104 EXPIRES 8 31 85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		VEAR SEQUENTIAL REVISION		
RIVER BEND STATION	0 15 0 0 0 4 5 8	18 8 16 -0 14 19 -0 10	0 12 05 01 2	

REPORTED CONDITION

On 8/5/86 with the unit in Mode 1 operating at 100% power, the Fuel Building Filtration System was automatically initiated by Radiation monitor RMS*RE5A. Normal radiation levels were verified and the system was returned to normal operation.

INVESTIGATION

During the investigation of this event, discussions were held with operations and engineering personnel to determine the cause of the spurious signal. It was found that the normal operating input voltage, measured on the skid and across the transient suppressor, was 130 VAC RMS (184 Vpeak). However, when the mid-high sample line Motor Operated Valve (MOV) was operated, the voltage would rise to 154 VAC RMS (218 Vpeak). The manufacturer (General Semiconductor) was contacted for additional information and it was learned that the suppressor was rated at 220 Vpeak +5%. Thus, the applied voltage exceeded the rating of some (but not all) of the transient suppressors, due to the +5% tolerance.

CORRECTIVE ACTION

A work request was issued to investigate the electrical spike and it was found that the transient suppressor failed because it was under-sized. This failed transient suppressor generated the spurious spike. Both the vendor and the manufacturer of the transient suppressor were contacted. Based on the usage, the manufacturer suggested a larger voltage suppressor be used. The vendor was also contacted for approval of the design change based on the manufacturers recommendations. The vendor stated that since an RC suppression circuit was used in parallel with the transient suppressor, it should not be required but, if replaced, the transient suppressor should be upgraded to a 250 Vpeak rating. In the interim GSU has removed the faulty suppressor and is relying on the RC circuit only. Additionally, GSU has initiated a Modification Request (MR) to determine if the transient suppressor is required. If required, the MR will install upgraded voltage suppressors with a rated peak voltage of 250 VAC. A supplemental LER will be submitted by 10/20/86 describing which course of action is being taken.

SAFETY ASSESSMENT

There was no impact on the safe operation of the plant or to the health of the public. The high alarm condition of RMS*RE5A placed the Fuel Building Ventilation system in a more conservative (i.e., filtered) condition.



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

> September 5, 1986 RBG- 24323 File Nos. G9.5, G9.25.1.3

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Dear Sir:

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River Bend Station - Unit 1 Docket No. 50-458

Please find enclosed Licensee Event Report No. 86-049 for River Bend Station - Unit 1. This report is submitted pursuant to 10CFR50.73.

Sincerely,

J. E. Booker

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

LUX JEB/TFP/PDG/DAS/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