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differential temperature switch began actuating erratically. The															
Reactor Water Cleanup (RWCU) heat exchanger room high temperature															
alarm annunciated once and stayed on a second time due to the															
differential temperature switch actuations, but the expected RWCU															
isolation did not occur. The RWCU isolation logic bypass switch was															
taken to the bypass position to facilitate removing the demineralizer															
filter beds from service. When this switch was returned to the normal															
po	position, the Division II RWCU valves isolated. The differential														
	temperature and logic bypass switches were replaced, after which the														
	RWCU system was restored to operation. Fince the isolation signal														
	generated by the failed differential temperature switch was not valid,														
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REPORTED CONDITION

At 0633 on 8/7/86 with the plant in mode 1 and operating at 100 percent rated reactor power, the Reactor Water Cleanup (RWCU) *CE* Division II leakage detection system *IJ* differential temperature switch *TDS* (1E31-N612B) began actuating erratically. Alarm 2376 "RWCU HX ROOM HI TEMP" annunciated once and then stayed on a second time due to the differential temperature switch actuations, but the expected RWCU isolation did not occur. At approximately 0635, the RWCU system logic bypass switch 1E31A-S1B *HS* was placed into the bypass position to facilitate removing the demineralizer filter beds *FDM* from service. After the filter beds were removed from service, at 0708 the bypass switch was placed back into the normal position and the Division II RWCU system isolation valves (1G33-MOVF001, F028, F040, and F053) *ISV* automatically closed.

INVESTIGATION

The root cause of the Division II isolation signal being generated was the failure of the Riley differential temperature switch module. The temperature module was returned to the manufacturer for a failure analysis. The manufacturer found that after the temperature module was heated mildly, the burnout sense circuit activated, causing the relay *94* to change state generating an isolation signal. This turned out to be due to a defective diode. The diode was examined on a curve tracer and was found to allow the passage of current in both directions. The manufacturer sampled production diodes and found them to be acceptable. Additional investigation by General Electric found no other reports of similar failures. Therefore, it is concluded that this is an isolated case.

To determine the root cause of the bypass switch failure, the switch was tested in the panel in both the normal and bypass modes several times with no recurrence of the problem. The switch was then replaced as a precaution and normal operation of the new bypass switch was verified. The malfunctioning switch was bench tested, again with no recurrence of the anomally. Investigations by General Electric found no other reports of similar failures of this key lock switch. The switch which was removed has been scrapped and therefore, no further failure analysis can be performed. Due to the extensive successful operating history of this type switch with no known similar failures, it is felt that this switch did not actually fail. Therefore, the root cause of this apparent anomaly is indeterminate. In addition, this switch has been successfully operated on at least a once per shift basis since its replacement on 8/8/86 without any further problems being noted.

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CORRECTIVE ACTION

The differential temperature switch was replaced, calibrated per Surveillance Test Procedure STP-207-5244, and placed back into service. At that time, it was felt that the logic bypass switch 1E31A-S1B caused the failure of the Division II valves to isolate, so it was also replaced. The RWCU system was successfully restored to operation at 1110 on 8/8/86. Since this failure was determined to be an isolated occurrence, no generic corrective action is planned.

SAFETY ASSESSMENT

Since the isolation signal generated by the failed differential temperature switch was not valid, the health and safety of the public was not affected by this event.

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



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October 19, 1987 RBG- 26830 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. 86-050 Revision 1 for River Bend Station - Unit 1. This report is being submitted pursuant to 10CFR50.73 to provide the results of additional investigation.

Sincerely,

J. E. Booker

Manager-River Bend Oversight River Bend Nuclear Group

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