

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	-0108	-01	02	OF	04

TEXT (if more space is required, use additional NRC Form 365A (17))

Description of the Event:

On April 27, 1984, Unit 2 was operating at 80% power coasting down to begin the end of cycle 6 outage. At 6:00 p.m., the 'A' fan of the SGBT system was manually started to commence the drywell deinerting; however, no flow was achieved using the 'A' fan because both the inlet and outlet dampers failed to open.

The Peach Bottom Units 2 & 3 SGBT system consists of an 'A' and a 'B' filter assembly, and three fans, 'A', 'B', and 'C' ducted in parallel to the filter assemblies. The 'A' fan is utilized for Unit 2, with 'B' as a standby, and the 'C' fan is utilized for Unit 3 with the 'B' fan as a standby.

Consequences of the Event:

As a result of an investigation into the consequences of the SV-0009 failure, it was determined that the potential existed for a single failure to have prevented the fulfillment of the safety function of the SGBT system.

If, on the date of the occurrence, a Group III isolation had occurred on Unit 2, the 'A' SGBT system fan would have started automatically, but there would have been no flow and the 'B' SGBT system fan would not have received the low 'A' fan differential pressure signal to start due to the orientation of the differential pressure switch sensing lines.

The high and low sensing taps of the differential pressure switch are piped between the dampers to the inlet and outlet of the 'A' fan to prove flow. With the dampers closed and the fan running, the switch would have sensed a differential pressure preventing the 'B' fan from automatically starting.

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FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0500027784	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		84	008	01	03	OF 04

TEXT (if more space is required, use additional NRC Form 366A (17))

Cause of the Event:

The inlet and outlet dampers on the SBT system fans are actuated by pneumatic operators. Each fan has a 120V.AC 3-way Asco solenoid valve (Catalog Number HT8320A83) which is normally energized, and wired into the fan control circuit. When the SBT system is actuated, the solenoids pass a pneumatic signal to open the inlet and outlet dampers. When the 'A' fan was manually started, solenoid valve, SV-0009, failed to operate and the dampers remained closed.

If the SBT had been automatically started, 'B' fan would not have received a standby start signal from the 'A' fan differential pressure switch because the low and high pressure taps for the switch are located within the inlet and outlet dampers. With the 'A' fan running and these dampers closed, the differential pressure switch would have measured a differential between the inlet and outlet of the fan indicating that there was 'A' fan flow, thus inhibiting the automatic 'B' fan start.

Corrective Actions:

The defective solenoid on the 'A' fan was replaced, the system was satisfactorily tested and placed in service at 2:20 a.m. on April 28, 1984. The defective solenoid was inspected by station personnel. There were no visible causes for the failure. The solenoid will be given to the Electrical Engineering Division for further analysis to determine the cause of failure.

The standby start differential pressure switches on the 'A' and 'C' fans will be replaced with a flow sensor using a duct pitot tube. An engineering evaluation has determined that the optimum position of the flow sensors is between the outlet and the backdraft dampers of the 'A' and 'C' SBT system fans. In these positions, the flow instrument will sense a closed outlet damper and provide the required automatic start signal for the standby ('B') fan.

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Due to equipment procurement difficulties, however, the modification cannot be completed within the previously estimated four-week time frame. The flow sensors originally intended to alleviate this problem were obtained from Limerick Generating Station. The response time of these sensors was found to be unacceptable for this application and the instruments were returned to the vendor for improvement. Because of the vendor/subvendor interface time and the required testing time, the flow sensors are not expected to be at the Peach Bottom site before the end of August 1984. The modification is expected to be complete within six weeks following receipt of the improved flow sensors and associated material.

Until the flow sensor modification is completed, the site will continue to perform a daily routine test to ensure the operability of the SBT system fans and dampers.

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July 24, 1984

Docket No. 50-277

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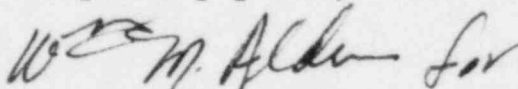
SUBJECT: Licensee Event Report

This revision of a previously submitted LER concerns the failure of a solenoid valve in the Standby Gas Treatment System on Peach Bottom Unit 2. The revised section is indicated by a vertical bar in the page margin.

Reference:	Docket No. 50-277
Report Number:	2-84-08
Revision Number:	01
Event Date:	April 27, 1984
Report Date:	July 24, 1984
Facility:	Peach Bottom Atomic Power Station RD #1, Box 208, Delta, PA 17314

This LER is submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(v).

Very truly yours,



R. H. Logue
Superintendent
Nuclear Services

cc: Dr. Thomas E. Murley, Administrator
Region I, USNRC

Mr. A. R. Blough, Site Inspector

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