	NRC FORM 366		
		LICENSEE EVENT REPO	RT
	CONTROL BLOCK:	PLEASE PR	INT OR TYPE ALL REQUIRED INFORMATION
	O 1 A L B R F 3 7 B 9 LICENSEE CODE 14	2 0 0 0 - 0 0 0 0 0 0 - 0 15 LICENSE NUMBER	
	CON'T AREPORT L 6 0 7 8 SOURCE 60 61	5 0 0 0 2 9 6 0 0 5 2	
	EVENT DESCRIPTION AND P	ROBABLE CONSEQUENCES 10	DATE 74 75 REFORT DATE BO
	Color Loging a power inc	rease while calibrating pressure	switches that initiate or control
	[0]3] the core standby c	cooling systems on unit 3, pressu	re switches PS-68-95 sw. 1 & 2 and
	[0]4] [PS-3-74B sw. 2 ope	erated at 251.7, 466.7, & 250.93	psig respectively. T.S. Table
	0 5 3.2.B requires the	se switches to operate at 230 +	15 psig, 450 + 15 psig, & 230 +
	0 6 15 psig. There wa	is no effect on public health or	safety because redundant switches
	0 7 were available and	operable.	
	0 8 L 7 8 9		
		CAUSE COMPONENT CODE SUBCODE COMPONENT COD	E SUBCODE SUBCODE 10 (14) S (15) Z (16)
	(17) LER/RO EVENT YEAR	SEQUENTIAL OC REPORT NO.	18 19 20 CURRENCE REPORT REVISION
	NUMBER 21 22	$\begin{array}{c c} \hline \\ 23 \\ 23 \\ 24 \\ 26 \\ 27 \\ 26 \\ 27 \\ 27 \\ 27 \\ 27 \\ 27$	
	E 18 F 19 Z 2	METHOD HOURS (22) ATTACHN SUBMITT 20) [2] [0] 0 [0] 0 [0] 1 Y [ED FORM SUB SUPPLIER COMPONENT
	CAUSE DESCRIPTION AND CO	36 37 40 41 DRRECTIVE ACTIONS (27)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1 0 The Barton model 28	38 (PS-3-74B sw.1) and the Barksd	ale model B2T-M12SS (PS-68-95 sw.]
1	1 1 1 & 2) pressure swi	ltches' calibration had drifted.	They were immediately recalibrated,
-	1 2 [functionally tested	, and returned to service. See	attached action plan for corrective
[1 3 Laction, category 3.		
11			
ç	FACILITY STATUS ICCOB 0 3 8 20	OTHER STATUS 30 METHOD OF DISCOVERY NA B (31)	DISCOVERY DESCRIPTION (32) Surveillance tests
Ļ		NOUNT OF ACTIVITY (3) NA	LOCATION OF RELEASE 36
-	NUMBER TYPE DESC	44 45	08
	B 9 PERSONNEL INJURIES	NA	
		1) NA	80
	8 9 11 12 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION	43)	80
1	1 0 Z (42) 8 9 10	NA	
2	2 0 ISSUED DESCRIPTION (45)	PDR ADOCK 05000296	80 NRC USE ONLY
-	B 0 10	PDR	
	NAME OF PREPARER	Bobby J. Irby	PHONE (205) 729-0841

Tennessee Valley Authority Browns Ferry Nuclear Plant

Form BF 17 BF 15.2 2/12/82

LER SUPPLEMENTAL INFORMATION

BFRO-50- 296 / 8221 Technical Specification Involved Table 3.2.B Reported Under Technical Specification 6.7.2.b(1) * Date Due NRC 6/23/82

Event Narrative:

Units 1 and 2 were operating normally. Unit 3 was ascending in power following an outage. Unit 3 was the only unit affected by this event. While performing Surveillance Instruction 4.2.B-7 (Instrumentation that Initiate or Control the CSCS Reactor Low Pressure) on unit 3, pressure switches PS-68-95 switches 1 and 2 and PS-3-74B switch 1 operated at 251.7 psi, 466.7 psi, and 250.93 psi respectively. Technical Specification Table 3.2.B requires PS-68-95 switch 1 to operate at 230 ± 15 psig, PS-68-95 switch 2 to operate at 450 ± 15 psig, and PS-3-74B switch 1 to operate at 230 ± 15 psig. The trip level settings on PS-68-95 switch 1 and PS-3-74B switch 1 actuate the recirculation discharge valves. The trip level setting on PS-68-95 switch 2 actuates a permissive for opening core spray and LPCI injection valves. The setpoints on the switches had drifted. The Barton model 288 (PS-3-74B switch 1) and the Barksdale model B2T-MI2SS (PS-68-95 switch 1 and switch 2) pressure switches were immediately recalibrated per SI 4.2.B-7 and returned to service. There was no effect on public health or safety because redundant switches were available and operable. See attached action plan for corrective action, category 3.

* Previous Similar Events: - Barton Switches - (Code B080)

50-259/77007, 77002, 81071, 78010, 73027W, 73026W, 73022W, 73041W, 73033W, 78024, 74001W, 81084, 82006, 82016, 80089, 81001, 80087, 73052W, 74010W, 73046W, 73040W,

50-260/81055, 81068, 82006, 82013, 80029, 81004, 81027, 82003 50-296/81055, 80028, 82005, 82011, 80018, 79010, 79028

- Barksdale Switches - (Code B069)

50-259/81032, 81038, 81064

50-260/81028, 81059

50-296/80052

Retention: Period - Lifetime; Responsibility - Document Control Supervisor *Revision:

ACTION PLAN BROWNS FERRY NUCLEAR PLANT - REACTOR PROTECTION SYSTEM PRIMARY CONTAINMENT ISOLATION SYSTEM AND CORE STANDBY COOLING SYSTEMS PRIMARY SENSOR SWITCHES

BACKGROUND

The reactor protection system (RPS), the primary containment isolation system (PCIS), and the core standby cooling systems (CSCS) use mechanical-type switches in the sensors that monitor plant process parameters. The plant technical specifications have put very close tolerances on these instruments. As a result, almost any change in switch setpoint requires submittal of a licensee event report (LER). To reduce the frequency of this type LER, the following action plan has been developed.

LONG-TERM SOLUTION

Advances in technology make it possible to replace the mechan. al-type switches with a more-accurate and more-stable electronic transmitter-electronic switch system. This modification is a major change to these safety systems and requires fully qualified safety-grade equipment. This equipment is in limited supply and has long procurement times. TVA is presently reviewing bids for this equipment. The tiein of the new system to the balance of the RPS, the PCIS, and the CSCS requires a refueling outage. TVA expects to install the electronic systems during the first refueling outage after receipt of equipment.

INTERIM ACTIONS

Because of the long leadtime to implement the long-term solution, several interim actions have been taken. They are based on a review of licensee event reports which can be categorized as follows:

- Category 1: Individual instruments whose setpoints have drifted two consecutive times.
- Category 2: Groups of instruments which exhibit a predictable cyclic setpoint drift pattern.
- Category 3: Individual, randomly occurring instruments setpoint drifts which cannot be put in category 1 or 2.

For each category the following action is taken:

- Category 1: The instrument is replaced with an identical instrument.
- Category 2: The margin between the instrument setting and the technical specification limit is increased.

Category 3: The instrument is readjusted to the specified setpoint.