## LICENSEE EVENT REPORT

A LICENSEE EVENT REPORT
*CONTROL BLOCK:
0 1 8 9 LICENSEE CODE 14 15 16 O O O O O O O O O O O O O O O O O O
CON'T  O 1 REPORT L 6 0 5 0 0 0 2 9 6 7 0 4 0 7 8 2 8 0 5 0 5 8 2 9  EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 0  O 2 During refueling outage on unit 3, while performing SI 4.2.A-6 (Main Steam Line)
[0] 3 [Low Pressure] pressure switches 3-PS-1-76 and 3-PS-1-82 had as-found setpoints of
[0]4] 815.7 psig (1.13% low)and 813.7 psig (1.36% low) respectively. T.S. Table 3.2.A
[0]5 [limit is 2 825 psig. There was no danger to the health or safety of the public
[0 6] because redundant switches were available and operable in each trip system.
07
0 8 1
SYSTEM
Pressure switches 3-PS-1-76 and 3-PS-1-82 setpoints had drifted. The Barksdale
[1] [ switches, model B2TA12SS, were recalibrated, functionally tested, and returned
[1] to service. See attached action plan for corrective action.
1   5   H   28   C   O   0   29   NA
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39)  1 7 0 0 0 0 0 2 38 NA  PERSONNEL INJURIES NUMBER DESCRIPTION (41)
1 8 9 11 12  LOSS OF GR DAMAGE TO FACILITY (43)  TYPE DESCRIPTION NA  NA
## PUBLICITY   15SUED   DESCRIPTION (45)   NRC USE ONLY   15SUED   DESCRIPTION (45)   NRC USE ONLY   15SUED   DESCRIPTION (45)   NA
B. J. Irby PHONE (205) 729-8100

Tennessen Vathey Authority Browns Ferry Euclean Plan-

Form RF 17 RF 15.2 2 12/85

# LER SUPPLEMENTAL INFORMATION

BF309-30- 296 / 8209 Technical Specification Involved 3.2.A

Reported Under Technical Specification 6.7, 2. b. 1 | Plate Due NRC 5/6/82

Allered Margarithme

Units 1 and 2 were operating normally when the event occurred; unit 3 was in a refueling outage. Only unit 3 was affected by this event. During the performance of Surveillance Instruction (SI) 4.2.A-6, Primary Containment and Reactor Building Isolation Instrumentation Low Pressure Main Steam Line, pressure switches 3-PS-1-76 and 3-PS-1-82 were found to operate outside the limits of Technical Specification Table 3.2.A. The pressure switches operated at 815.7 psig and 813.7 psig respectively Table 3.2.A specifies the trip setting to be ≥ 825 psig. Pressure below this setting initiates isolation of the main steam lines. The failure of these switches was due to setpoint drift.

The switches were recalibrated in accordance with SI 4.2.A-6 and were returned to service. Redundant pressure switches 3-PS-1-72 and 3-PS-1-86 were available and operable in each trip system.

The attached action plan delineates the recurrence control to be implemented.

\* Previous Similar Events:

BFRO 260/79024, 80057; 296/80045, 81007

ACTION PLAN

IMPOUNDED FERRY HUCLEAR PLANT - REACTOR PROTECTION SYSTEM
PRIMARY CONTAINMENT ISOLATION SYSTEM
AND CORE STANDBY COOLING SYSTEMS
PRIMARY SENSOR SWITCHES

#### TACEGROUND

The reactor protection system (RPS), the primary containment isolation system (PCIS), and the core standby cooling systems (CSCS) use togetherical-type switches in the sensors that monitor plant process partmeters. The plant technical specifications have put very close tolerances on these instruments. As a result, alsost any change in switch setjoint 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 mechanical-type switches with a more accurate and more stable electronic transmitter-electronic switch system. This modification is a major change to these safety systems are 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 tie-in of the new system outsite. IVA expects to install the electronic systems during the first refusing outsign after receipt of equipment.

## INTE IN ACCIONS

Because of the long leadtime to implement the long-term solution, several interim stions 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 .
- Category 2: Groups of instruments which exhibit a predictable cyclic metpoint drift pattern.
- Category 3: Individual, randomly occurring instrument 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.