

LICENSEE EVENT REPORT

CONTROL BLOCK: _____ ①

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | A | L | B | R | F | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
7 8 9 | LICENSEE CODE | 14 15 | LICENSE NUMBER | 25 26 | LICENSE TYPE | 30 57 | CAT | 58

0 1 | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 5 | 9 | 7 | 0 | 2 | 0 | 2 | 8 | 2 | 8 | 0 | 8 | 1 | 0 | 8 | 2 | 9
7 8 | REPORT SOURCE | 60 61 | DOCKET NUMBER | 68 69 | EVENT DATE | 74 75 | REPORT DATE | 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

0 2 | During SI 4.9.A.4.C calibration of the degraded voltage relays on the 4KV
0 3 | shutdown boards (common to units 1 & 2), the trip setpoint of all 12 relays
0 4 | was found to be below the minimum trip point of 3900V (T.S. Table 4.9.A.4.C).
6 5 | There was no danger to the health or safety of the public in that T.S. 3.9.B.11.b
0 6 | permits operation for 10 days with degraded voltage relays inoperable on a board.
0 7 | Loss-of-voltage relays were operable (within SI 4.9.A.4.b Surveillance Schedule).
0 8 | No previous similar events.

0 9 | E | B | 11 | E | 12 | G | 13 | R | E | L | A | Y | X | 14 | D | 15 | Z | 16
7 8 | SYSTEM CODE | 9 10 | CAUSE CODE | 11 12 | CAUSE SUBCODE | 13 18 | COMPONENT CODE | 19 20 | COMP. SUBCODE | 20 21 | VALVE SUBCODE

17 | LER/RO REPORT NUMBER | 21 22 | 8 | 2 | 23 | SEQUENTIAL REPORT NO. | 24 26 | 0 | 1 | 3 | 27 | OCCURRENCE CODE | 28 29 | 0 | 1 | 30 | REPORT TYPE | 31 32 | X | 31 | 1 | 32 | REVISION NO.

ACTION TAKEN | 33 34 | FUTURE ACTION | 35 36 | EFFECT ON PLANT | 37 38 | SHUTDOWN METHOD | 39 40 | HOURS | 41 42 | 0 | 0 | 0 | 0 | 40 | ATTACHMENT SUBMITTED | 43 44 | Y | 43 | NPRD-4 FORM SUB. | 45 46 | Y | 44 | PRIME COMP. SUPPLIER | 47 48 | L | 45 | COMPONENT MANUFACTURER | 49 50 | B | 4 | 5 | 5 | 50

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ⑳

1 0 | The setpoint had drifted down about 3% in 6 months since installation. The Gould-
1 1 | Brown Boveri type ITE 27/59H relays were recalibrated and returned to service.
1 2 | Drift was mainly due to initial stabilization of the new relays. Calibration
1 3 | frequently was increased as recurrence control pending evaluation of expanding the
1 4 | setpoint tolerance criteria.

1 5 | E | 28 | 0 | 9 | 8 | 29 | NA | 30 | OTHER STATUS | 31 | B | 31 | Surveillance test | 32 | DISCOVERY DESCRIPTION

1 6 | Z | 33 | Z | 34 | NA | 35 | AMOUNT OF ACTIVITY | 36 | NA | 36 | LOCATION OF RELEASE

1 7 | 0 | 0 | 0 | 37 | Z | 38 | NA | 39 | DESCRIPTION

1 8 | 0 | 0 | 0 | 40 | NA | 41 | DESCRIPTION

1 9 | Z | 42 | NA | 43 | LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

2 0 | N | 44 | NA | 45 | PUBLICITY ISSUED DESCRIPTION

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PDR ADOCK 05000259
S PDR

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NRC USE ONLY

GPO 81-7-426

LER SUPPLEMENTAL INFORMATION

BFRO-50- 259/ 82013 R1 Technical Specification Involved 3.9.B.11.b

Reported Under Technical Specification 6.7.2.a.9 * Date Due NRC N/A

Event Narrative:

Unit 1 was operating at 98-percent; unit 2 was operating at 100-percent; unit 3 was in refueling outage. Units 1 and 2 share the 4KV shutdown boards and diesel generators. Unit 3 was unaffected by this event. During the performance of Surveillance Instruction (SI) 4.9.A.4.A (Auxiliary Electrical Equipment Undervoltage Relay Calibration for Start Buses 1A and 1B and 4KV Shutdown Boards units 1 and 2 or 3), the degraded voltage relay "27-211-(A,B,C, or D)" on 4KV shutdown boards A,B,C, and D trip setpoint were found to be approximately 3815 volts. The limit in Technical Specification Table 4.9.A.4.C requires these relays to operate between 3900 and 3940 volts. These undervoltage sensing relays start the associated diesel-generator on degraded voltage. The loss-of-voltage relay channel was available and operable (within the surveillance schedule of SI 4.9.A.4.b) and had been calibrated per SI 4.9.A.4.C. The degraded voltage relays were recalibrated and returned to service within the time limits prescribed by Technical Specification 3.9.B.11.b. There was no danger to the health and safety of the public, plant employees, or equipment at any time.

The setpoint drift of the degraded voltage relays was mainly due to the fact that the relays require about two months of operation to stabilize. Ambient temperature and control voltage variations can also cause the relays to slightly exceed the 1/2-percent technical specification criteria. This report is also a followup report to LERs BFRO-50-259/8228, and BFRO-50-259/8233. Resolution will depend on the results of an evaluation of the effect of expanding the setpoint tolerance criteria. This evaluation is expected to be completed by November 1, 1982.

* Previous Similar Events:

NONE

Retention: Period - Lifetime; Responsibility - Document Control Supervisor

*Revision: JRP