

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: \_\_\_\_\_ (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | A | R | A | N | 0 | 2 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 1 | 1 | 4 | \_\_\_\_\_ | 5

7 8 9 14 15 25 26 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CONT

01 | R | E | P | O | R | T | S | O | U | R | C | E | L | 6 | 0 | 5 | 0 | 0 | 0 | 3 | 6 | 8 | 7 | 1 | 2 | 2 | 0 | 8 | 1 | 0 | 8 | 1 | 2 | 2 | 6 | 8 | 1 | 0 | 9

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During Mode 1 operation, while performing routine Refueling Water Tank

03 | (RWT) level indication checks, it was observed that Channels A, C, & D

04 | were indicating > 100% and Channel B was 82%. Previous checks indicated

05 | approximately 94%. All ESFAS RWT Instrumentation channels being declared

06 | inoperable, the L.C.O. of Action Statement #9 per T.S. 3.3-3 Item 6b,

07 | T.S. 3.3.2.1 could not be satisfied. Reactor shutdown to Mode 3 was

08 | \_\_\_\_\_ (see attached) \_\_\_\_\_

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

09 | I | I | E | 11 | E | 12 | X | 13 | I | N | I | S | T | R | U | 14 | T | 15 | Z | 16

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUP. CODE VALVE SUBCODE

17 | L | E | R | N | O | R | E | P | O | R | T | N | U | M | B | E | R | 8 | 0 | 21 | 22 | 0 | 9 | 1 | 24 | 25 | 0 | 1 | 28 | 29 | T | 30 | 31 | 0 | 32

18 | A | 18 | X | 19 | A | 20 | B | 21 | 0 | 0 | 4 | 5 | 40 | Y | 23 | N | 24 | Z | 25 | Z | 9 | 9 | 9 | 26

ACTION TAKEN: FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRC FORM 504 PRIME COMP SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The instrument indication discrepancy was diagnosed as frozen RWT level

11 | transmitters due to 15°F ambient temperature. The system heat tracing

12 | circuit was found de-energized because the main line fuse was removed.

13 | The fuse was replaced and RWT level indication returned to operable status.

14 | \_\_\_\_\_ (See Attached) \_\_\_\_\_

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

15 | E | 28 | 0 | 1 | 7 | 7 | 29 | NA | 30 | A | 31 | Operator Observation | 32

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

16 | Z | 33 | Z | 34 | NA | 35 | NA | 36

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 | 0 | 0 | 0 | 37 | Z | 38 | NA | 39

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 | 0 | 0 | 0 | 40 | NA | 41

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

PERSONNEL INJURIES NUMBER DESCRIPTION

19 | Z | 42 | NA | 43

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 | N | 44 | NA | 45

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

PUBLICITY ISSUED DESCRIPTION

POOR ORIGINAL

(Continued)

10

initiated per T.S. 3.0.3; however, to meet the 1 hour "time-clock" a manual Reactor trip was required at 30% power. Similar to LER's 50-368/79-001, 79-002, 79-008, 79-101. Reportable per T.S. 6.9.1.8.b.

27

Investigation revealed fusible disconnect did not conform to design drawings. Ramifications and long term corrective actions are being evaluated.

1. Reportable Occurrence Report No. 50-368/80-091
2. Report Date: 12/26/80                      3. Occurrence Date: 12/20/80
4. Facility: Arkansas Nuclear One - Unit Two  
Russellville, Arkansas

5. Identification of Occurrence:

Operation of the unit with Engineered Safety Features Actuation System instrumentation subject to a Limiting Condition for Operation (LCO) per T.S. 3.3.2.1, T. S. Table 3.3-3 Item 6b (Refueling Water Tank level instrumentation) in a less conservative than the least conservative aspect of the LCO as established by Action Statement #9 (allowing one inoperable channel). Reportable per T.S. 6.9.1.8.b.

6. Conditions Prior to Occurrence:

Steady-State Power	<u>    X    </u>	Reactor Power	<u>  2168  </u> MWth
Hot Standby	<u>          </u>	Net Output	<u>    685    </u> MWe
Cold Shutdown	<u>          </u>	Percent of Full Power	<u>  77  </u> %
Refueling Shutdown	<u>          </u>	Load Changes During Routine Power Operation	<u>          </u>
Routine Startup Operation	<u>          </u>	Mode	<u>  1  </u>
Routine Shutdown Operation	<u>          </u>		
Other (specify)	<u>          </u>		

7. Description of Occurrence:

While performing routine Refueling Water Tank (RWT) level indication checks, as required by T.S. 4.3.2.1.1, T.S. Table 4.3-2 Item 6b, it was observed that Channels A, C, & D were indicating a level of >100% and Channel B was indicating 82%. The previous channel check readings ranged from 93 to 95% on all RWT level indications. All EFSAS RWT instrumentation being declared inoperable, the LCO and associated action statement could not be satisfied; therefore, a Reactor shutdown to Mode 3 operation was initiated per the requirements of T. S. 3.0.3. To meet the 1 hour time clock, a manual Reactor trip was required at 30% power.

8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____ X
Manufacture	_____	Unusual Service Condition Including Environmental	_____
Installation/ Construction	_____ X	Component Failure (See Failure Data)	_____ X
Operator	_____	Personnel Error	_____ X
Other (specify)			

The instrument indication discrepancy was diagnosed as frozen RWT level transmitters due to 150F ambient temperature. The system heat tracing (added per corrective action to previous occurrences) was found de-energized because of a missing power fuse in a fusible disconnect located in terminal box, 2TB-608.

9. Analysis of Occurrence:

Investigation revealed that the installation of a fusible disconnect in the heat tracing circuit did not conform to the original design configuration. The power fuse was apparently removed when an unrelated plant design change required that the RWT level sensing lines be re-routed due to space utilization requirements. The post design modification check out failed to reverify the operability of the heat tracing circuitry.

Reportable Occurrence Report No. 50-368/80-091

10. Corrective Action:

The short term corrective action was to replace the missing power fuse, thaw the RWT level transmitter, and return the ESFAS Refueling Water Tank instrumentation to an operable status.

Long term corrective actions are being evaluated.

11. Failure Data:

Refueling Water Tank, frozen level transmitter, occurrences were reported in LER's 50-368/79-001, 79-002, 79-008, and 79-101.