

POOR ORIGINAL

LICENSEE EVENT REPORT

EXHIBIT A

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

01 AIRANOI 02 00-000000-00 03 411111 04 05

CON'T REPORT SOURCE L 06 05000313 07 041378 08 042778 09

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

02 AN ANALYSIS OF A 0.04 FT² RCS PUMP DISCHARGE BREAK WHICH HAD NOT BEEN PREVIOUSLY ANALYZED SHOWED UNACCEPTABLE RESULTS.

09 SYSTEM CODE ZE 11 CAUSE CODE X 12 CAUSE S/B CODE X 13 COMPONENT CODE XIXXIXIX 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16

17 LER/RO REPORT NUMBER 718 21 EVENT YEAR 78 22 SEQUENTIAL REPORT NO. 009 24 OCCURRENCE CODE 1 27 REPORT TYPE T 30 REVISION NO. 0 32

ACTION TAKEN G 18 X 19 EFFECT ON PLANT B 20 SHUTDOWN METHOD Z 21 HOURS 0000 22 ATTACHMENT SUBMITTED Y 23 NPRO-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z999 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

10 THE REEVALUATION OF ECCS ANALYSIS AS A RESULT OF ANALYSIS RESULTS PERFORMED FOR B+W'S NEWER GENERATION PLANTS.

15 FACILITY STATUS G 28 % POWER 000 29 OTHER STATUS NA 30 METHOD OF DISCOVERY D 31 DISCOVERY DESCRIPTION NOTIFICATION FROM NSSS VENDOR 32

16 ACTIVITY RELEASED Z 32 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36

17 PERSONNEL EXPOSURES NUMBER 000 37 TYPE Z 38 DESCRIPTION NA 39

18 PERSONNEL INJURIES NUMBER 000 40 DESCRIPTION NA 41

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43

20 PUBLICITY ISSUED H 44 DESCRIPTION NA 45

NAME OF PREPARER: TED ENOS

PHONE: 501/371-4376

8004150768 S

1. Reportable Occurrence Report No. 50-313/78-9
2. Report Date: April 27, 1978 3. Occurrence Date: April 13, 1978
4. Facility: Arkansas Nuclear One-Unit 1
 Russellville, Arkansas 72801

5. Identification of Occurrence:

Results of an analysis of a 0.04 ft² RCS pump discharge break which had not been previously analyzed and which showed unacceptable results.

6. Conditions Prior to Occurrence:

Steady-State Power _____	Reactor Power _____ 0 _____ MWth
Hot Standby _____	Net Output _____ 0 _____ MWe
Cold Shutdown _____ x _____	Percent of Full Power _____ 0 _____ %
Refueling Shutdown _____	Load Changes During Routine Power Operation _____
Routine Startup Operation _____	
Routine Shutdown Operation _____	
Other (specify) _____	

7. Description of Occurrence:

We were notified on April 13, 1978 by our NSSS vendor of the results of an analysis of a 0.04 ft² RCS pump discharge break which had not been previously analyzed and which showed unacceptable results. The unacceptable results occur after approximately 1700 seconds when one assumes that one high pressure injection train is working and that 50% of the flow from that HPI pump is not reaching the core due to flow out of the break. Additional analyses have been performed by B&W for break sizes of 0.3, 0.2, 0.15, 0.13, 0.1, 0.07, 0.04, ft² which show that the worst case break is 0.13 ft².

8. Designation of Apparent Cause of Occurrence:

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

Reevaluation of ECCS analysis as a result of analysis results performed for B&W's newer generation plants. Due to the small probability of this very specific occurrence with concurrent loss of offsite power and failure of a diesel generator there was no significant hazard to the health and safety of the public.

9. Analysis of Occurrence:

Without proper operator action 10CFR50/46 limits could be exceeded for a limited range of very small break sizes in a specific small portion of RCS piping.

Reportable Occurrence Report No. 50-313/78-9

10. Corrective Action:

Operator action will be taken in the event the Postulated Small Break LOCA should occur. This action will consist of opening the cross connect valve between the two main headers of high pressure injection and opening two isolation valves.

11. Failure Data:

None