

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Zion Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 2 9 5					PAGE (3) 1 OF 0 2											
TITLE (4) Failure to Periodically Test Service Bus Undervoltage Start of Stm. Driven Aux. FW Pump																										
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)													
0	8	0	6	8	5	8	5	0	2	8	0	0	0	9	0	5	8	5	0	5	0	0	0	0	0	0
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																							
POWER LEVEL (10)			20.402(b)				20.406(a)				60.73(a)(2)(iv)				73.71(b)											
0 9 8			20.406(a)(1)(i)				60.36(e)(1)				60.73(a)(2)(v)				73.71(e)											
			20.406(a)(1)(ii)				60.36(e)(2)				60.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)											
			20.406(a)(1)(iii)				X 60.73(a)(2)(i)				60.73(a)(2)(viii)(A)															
			20.406(a)(1)(iv)				60.73(a)(2)(ii)				60.73(a)(2)(viii)(B)															
			20.406(a)(1)(v)				60.73(a)(2)(iii)				60.73(a)(2)(ix)															
LICENSEE CONTACT FOR THIS LER (12)																										
NAME Xavier Polanski, Tech. Staff Engineer										TELEPHONE NUMBER																
										AREA CODE 3 1 2 7 4 6 - 2 0 8 4																
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC																
D				No																						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR										
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO														

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

During a review of Technical Specification surveillance requirements, it was discovered that the service bus undervoltage start of the steam-driven Aux. Feedwater Pump, is not periodically tested. The Tech.-Spec.-required test frequency is on a refueling interval. A new procedure to test the automatic start was prepared and performed successfully with the unit at power. The protection afforded by this feature is not employed in the plant safety analysis.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Zion Unit 1	DOCKET NUMBER (2)  0 5 0 0 0 2 9 5	LER NUMBER (6)			PAGE (3)		
		YEAR  8 5	SEQUENTIAL NUMBER  0 2 8	REVISION NUMBER  0 0			0 2 OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During a review of the surveillance requirements specified in Technical Specification Table 4.4-1, it was discovered that the service bus undervoltage start of the steam-driven Aux. Feedwater pump is not periodically tested. The Tech. Spec. table requires such testing on a refueling interval. The logic is the same as that for the bus undervoltage reactor trip (an undervoltage signal on 2/4 service buses) which is tested monthly. However, for the Aux. Feedwater Pump start, the logic matrix feeds a time-delay relay. During monthly reactor trip testing, a coincidence is not normally made up long enough for that relay to time out. Consequently, neither the operation of the relay, nor its ability to start the pump is tested.

The plant was in Mode 1 at the time of this discovery. NRC Region III was contacted, and it was agreed that the best course of action would be to continue operation and immediately prepare test procedures. A new procedure, PT-5C, was written to test the pump start while the plant is operating. It consists of setting up for RX. Trip logic testing, and then holding the undervoltage test switches, for each combination, long enough for the time delay relays to operate the solenoid for the aux. feedwater pump steam admission valve. The test was completed successfully. The procedure, or one similar to it, will be placed on the surveillance schedule by 11-15-85.

It was noted during this investigation that the protection afforded by the automatic start is not employed in the plant's safety analysis. A Tech. Spec. change to delete the testing requirement will be considered.

Because this protection is not employed in the safety analysis, effects on the public health and safety, of failing to perform this testing, is negligible.

This is the first known occurrence of this type of failure to test. The systematic review, that uncovered this problem, included all surveillances required by Technical Specifications; therefore, we believe that this is an isolated occurrence.



**Commonwealth Edison**

Zion Generating Station  
101 Shiloh Blvd.  
Zion, Illinois 60099  
Telephone 312/746-2084

September 5, 1985

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

References: 10CFR50

Dear Sir:

The enclosed Licensee Event Report from Zion Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73(a)(2)(i) which requires a 30 day written report when there has been an operation or condition prohibited by the plant's Technical Specifications.

This report is number 85-028-00, Docket No.50-295  
/DPR-39.

Very truly yours,

G. J. Pliml  
Station Manager  
Zion Generating Station

KLG/gn

Enclosure: Licensee Event Report No. 85-028-00

Attachment

cc: J. G. Keppler, NRC Region III Administrator  
M. Holzmer, NRC Resident Inspector  
INPO Record Center  
CECo Distribution List

1E22  
1/1