

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1) Zion Unit 1	Docket Number (2) 0   5   0   0   0   2   9   4	Page (3) 1   of   0   2
Title (4) Non-Functional Fire Barrier Due to Personnel Error During Modification		

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)	
1	1	0   2   8   8	8   8	0   2   2	0   0	1	2	0   1   8   8	Zion Unit 2	0   5   0   0   0   3   0   4	

OPERATING MODE (9)  3

POWER LEVEL (10) 0 | 0 | 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> Other (Specify in Abstract below and in Text)
<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

Name	TELEPHONE NUMBER
F. M. Berry ext. 338	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	MANUFAC-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS
A	K   P	P   E   N	X   9   9   9	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

Expected Submission Date (15) 0 | 2 | 3 | 0 | 8 | 9

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

On 11/02/88 at 1115 hrs, during a routine inspection by the Shift Foreman, a 3" core hole penetration was found in the west wall of the inner Crib House (Row BB) which degraded the functional integrity of the fire barrier.

As an immediate corrective action, an hourly inspection of the affected safety-related penetration was established. ZAP-04, Station Housekeeping/Fire Protection, Appendix G was posted at the penetration and PT-14, Inoperable Equipment Surveillance, was initiated.

At 1330 hrs the penetration was sealed and the subject barrier was declared functional.

The event was caused primarily by a deficiency in identifying fire protection concerns during the preparation of an Engineering Change Notice (ECN) to design the routing of a conduit for the new bottle storage building.

Another cause is personnel error in identifying/implementing station approved procedure ZAP-04, Station Housekeeping/Fire Protection, prior to construction.

IE2211

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)				Page (3)		
		Year	Sequential Number	Revision Number				
Zion Unit 1	0   5   0   0   0   2   9   5	8   8	-   0   2   2	-	0   0	0   2	OF	0   2

TEXT Energy Industry Identification System (EIIIS) codes are identified in the text as [XX].

A. CONDITION PRIOR TO EVENT

MODE 3 - Hot Shutdown RX Power 0 RCS [AB] Temperature/ Pressure 540 °F/2235 psig

B. DESCRIPTION OF EVENT

On 10/14/88, a 3" core hole was drilled in a fire barrier (west wall of the inner Crib House [MK]) protecting safety-related equipment (Service Water Pumps [BI]) to route a conduit for the new bottle storage building. On 11/02/88, a Shift Foreman discovered the degraded fire barrier during a routine inspection and declared the barrier inoperable.

C. APPARENT CAUSE OF EVENT

The root cause of the event involves two factors:

- A deficiency in identifying fire protection concerns (impairment of a fire barrier protecting the service water pumps) during the preparation of engineering change notice (ECN) No. 20-727-S-001, Rev. A, to design the routing of a conduit for the new bottle storage building.
- A personnel error by Projects and Construction Services (PACS) in identifying and implementing the approved station procedure ZAP-04 (Station Housekeeping/Fire Protection) which requires notification of the Shift Engineer prior to core hole drilling and the implementation of non-functional penetration fire barrier surveillance.

D. SAFETY ANALYSIS OF EVENT

The effect on the safety of the plant or the operation of the Service Water pumps was insignificant due to the number of ionization detectors located in the area that would alarm in the Control Room when actuated. This alarm would cause the immediate dispatch of the Fire Brigade to the affected area.

E. CORRECTIVE ACTIONS

Immediate corrective actions were to initiate hourly inspections of the degraded fire barrier; ZAP-04, Appendix G was posted at the affected barrier; PT-14 was initiated until the core hole was sealed properly.

The core hole was properly sealed at 1330 hrs and the fire barrier was declared functional.

The Station will implement an administrative procedure to govern all maintenance to Technical Specification fire barriers. All appropriate personnel will be trained in the new procedure.

PWRE will evaluate existing instructions for ECN preparation by responsible Architect/Engineers and consider appropriate actions to prevent such an occurrence. A supplemental report will be submitted when the evaluation is complete. The open items will be tracked by Commitment #295-200-88-2200.

F. PREVIOUS EVENTS

Similar events occurred in 1986 and are documented in LERs #86-015, 86-24, 86-27, 86-30 (all Unit 1) and 86-20 for Unit 2.

G. COMPONENT FAILURE DATA

None



Commonwealth Edison

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

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

Dear Sir:

The enclosed Licensee Event Report number 88-22-00, Docket No. 50-295/DPR-39 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 any operation or condition is prohibited by the plant's Technical Specifications.

Very truly yours,

*for* G. J. Pliml  
Station Manager  
Zion Generating Station

GJP/ts

Enclosure: Licensee Event Report

cc: NRC Region III Administrator  
NRC Resident Inspector  
INPO Record Center  
CECo Distribution List

JE22  
7/1