

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Zion Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 1 0 4										PAGE (3) 1 OF 1																																		
TITLE (4) Closure of Purge Valves from High Rad Signal																																																						
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 7		0 2		8 5		8 5		0 1		2 0		1 1		0 1		5 8												0 5 0 0 0																										
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OPERATING MODE (9)						THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																																																
1						20.402(b)						20.406(e)						X 50.73(a)(2)(iv)						73.71(b)																														
POWER LEVEL (10)						20.406(a)(1)(i)						50.36(e)(1)						50.73(a)(2)(v)						73.71(e)																														
0 1 8 1 4						20.406(a)(1)(ii)						50.36(e)(2)						50.73(a)(2)(vi)						OTHER (Specify in Abstract below and in Text, NRC Form 355A)																														
						20.406(a)(1)(iii)						50.73(a)(2)(i)						50.73(a)(2)(vii)(A)																																				
						20.406(a)(1)(iv)						50.73(a)(2)(ii)						50.73(a)(2)(vii)(B)																																				
						20.406(a)(1)(v)						50.73(a)(2)(iii)						50.73(a)(2)(ix)																																				
LICENSEE CONTACT FOR THIS LER (12)																																																						
NAME																				TELEPHONE NUMBER																																		
Christopher Kuechle																				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 NPDOS					CAUSE					SYSTEM					COMPONENT					MANUFAC. TURER					REPORTABLE TO NPDOS									
D					1 C					1 R A N					3 0 5					No																																		
SUPPLEMENTAL REPORT EXPECTED (14)																				EXPECTED SUBMISSION DATE (15)										MONTH DAY YEAR																								
YES (If yes, complete EXPECTED SUBMISSION DATE)																				X NO																																		

ABSTRACT (Limit to 1400 spaces = approximately fifteen single space typewritten lines) (10)

A High Radiation Signal from the Unit 2 Containment Purge Exhaust Noble Gas Radiation Monitor (2RT-PR09A) caused the closure of Unit 2 purge valves, an engineered safety feature. This was caused by a procedure deficiency, which resulted in High Alarm Setpoint for the monitor being set below the value necessary to complete the purge. A procedure revision was implemented on 8/27/85. There were no safety implications.

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PDR ADOCK 05000304
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 6/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Zion Station, Unit 2	0500030485	-	012	-	0102	OF 02

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

Due to reported high levels of carbon monoxide in Unit 2 containment, operators were attempting a purge when a high alarm signal was received from the containment purge exhaust noble gas radiation monitor (2RT-PR09A). This alarm resulted in auto-closure of the Unit 2 containment isolation valves, an engineered safety feature. There were no safety implications according to the Radiation Chemistry Foreman's Standing Log. The Shift Control Room Engineer reported the incident to the Radiation Chemistry Foreman as difficulty with the monitor's alarm setpoints, and not as a high alarm condition. As a result, no verification gas sample was obtained, however, a sample taken approximately 2.5 hours prior to the start of the attempted purge showed noble gas activities to be within acceptable limits. The analysis results from this sample were in fact, used to complete the documentation necessary for the release to occur (ZCP-304). Examination of the strip chart recorder for the monitor during the period in question showed the monitor to be operating correctly. The high alarm resulted when the count rate exceeded the 400 cpm alarm setpoint determined for the release by one of the station's chemists, using the procedure referenced earlier. This procedure establishes setpoints on a case - by - case basis for each release and makes the assumption that all other release path noble gas radiation monitors are at their high alarm setpoints (corresponding to a release rate of 42% of the Zion Tech Spec limit). The setpoint for 2RT-PR09A is then derived by selecting a value slightly higher than the projected instrument response to the known noble gas concentration. The 2RT-PR09A setpoint must be below 58% of the Tech Spec limit, but it can be lower than that at the chemist's discretion.

This procedure permitted substantial flexibility in establishing setpoints. One chemist could select a low value; and a second chemist looking at the same noble gas analysis results, might set it higher. As long as the setpoint fell below the prescribed limit, each chemist would have been procedurally correct.

In fact, this is what took place. A second chemist reevaluated the documentation and authorized an increase in the setpoint to 1000 cpm, which permitted the purge to take place.

A revision to ZCP-304 was implemented on 8/27/85. This established setpoints for each unit to be used when purging above cold shutdown. These setpoints will secure a purge in the event that the detected release rate exceeds 74% of the Tech Spec limit.

Rad-chem and Control Room personnel will be reminded of the importance of communication and follow-up of Radiation monitor events. This item is being tracked by Commitment No. 295-180-85-012.



Commonwealth Edison

Zion Generating Station
Shiloh Blvd. & Lake Michigan
Zion, Illinois 60099
Telephone 312/746-2084

October 15, 1985

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

Dear Sir:

The enclosed revised Licensee Event Report from Zion Generating Station is being transmitted to you as an update to the original report.

This report is number 85-012-01, Docket No.50-295/DPR-48.

Very truly yours,

G. J. Pliml
Station Manager
Zion Generating Station

GJP/gn

Enclosure: Licensee Event Report No. 85-012-01

Attachment

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

TEZZ
11

Please return this document to sender

- ☐ Missing pages
- ☐ Document normally PUR available but not so marked
- ☐ No CF subject assigned
- ☐ Document not normally processed by DCS
- ☒ ~~Inconsistent~~
~~Incorrect~~ docket numbers
- ☐ Document contains unmarked proprietary information
- ☐ Forwarding letter and enclosures unrelated
- ☐ Task and/or reg guide number not indicated
- ☐ Research File level not assigned
- ☐ Docket Date illegible
- ☐ Document contains copyrighted material

- ☒ Other even though Forwarding ltr indicates LER is revised, ltr identifies 50-295 as applicable docket while LER lists 50-304. Which one applies?

Please correct noted problem and resubmit documents to DCS, c/o Records Services Branch (016)

Name LEE MCNALLYWork Phone# 29028

MS 016

Date 10/21/85

NRC notes:

I talked with Zion station on 10/30/85.
Zion will be submitting a correction letter to
state that the LER docket # 50-304 is correct.
The transmitted letter is in error.

J. Norris, Zion
 Proj. Manager, DCS
 4/15/85