

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) **BYRON, UNIT 1** DOCKET NUMBER (2) **0 5 0 0 0 4 5 4 1 OF 2** PAGE 13

TITLE (4) **VC TRAIN B SWITCHOVER CAUSED BY SPURIOUS INTERLOCK ALARM ON RADIATION MONITOR**

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)
01	09	85	85	002	00	01	28	85		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9) **4** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (10)

<input type="checkbox"/> 20.402(a)	<input checked="" type="checkbox"/> 20.409(a)	<input type="checkbox"/> 60.73(a)(2)(iv)	73.71(b) 73.71(e) OTHER (Specify in Abstract below and in Text, NRC Form 305A)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 60.20(a)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	
<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 60.20(a)(2)	<input type="checkbox"/> 60.73(a)(2)(vi)	
<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(i)	<input type="checkbox"/> 60.73(a)(2)(vii)(A)	
<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.405(a)(1)(vi)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(viii)	

POWER LEVEL (10a) **Q 0 0**

LICENSEE CONTACT FOR THIS LER (12) **Rick Hildebrand, System Test Engineer, Ext. 250** TELEPHONE NUMBER **8 1 5 2 3 4 - 1 5 4 4 1**

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
C	IIL	RIB1	G1016 B	N					

SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE)  NO  EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

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

The gas monitor channels on radiation monitor OPR33J (Main Control Room Outside Air Intake "B") went into high radiation and interlock alarm, apparently due to externally generated electrical noise. This caused the B Train of Main Control Room HVAC to shift to its ESF configuration. The alarm reset automatically shortly after it occurred. Investigation of possible causes of the noise spikes is underway.

8502060101 85012B  
PDR ADOCK 05000454  
S PDR

IE22  
1/1

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (3)

PAGE (3)

BYRON, UNIT 1

0	5	0	0	0	4	5	4	8	5	-	0	0	2	-	0	0	0	2	OF	0	2
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	---	---

TEXT (If more space is required, use additional NRC Form 305A's) (17)

On January 9, 1985 at 1950, the gas monitor channels of radiation monitor OPR33J (Main Control Room Outside Air Intake "B") went into high radiation and interlock alarm, apparently due to externally generated electrical noise. Train B of the Main Control LRoom HVAC (VC) System automatically switched into the makeup mode when OPR33J went into its interlock state.

The source of the noise is unknown, but the short duration of the alarm is indicative of a single noise spike. The Radiation Monitoring System RM-11 printer did not record the event because there was a loss of communications at the time with the OPR33J skid, but the alarm itself was not blocked as it is on a dedicated communications link.

Plant and public safety were not affected since switching the VC system to its makeup mode is an ESF function which establishes a safer plant condition.

There have been similar occurrences of electrical noise spiking (LER 84-028-00, LER 84-033-00).

The alarms reset automatically shortly after they occurred. Investigation into possible causes of the noise spikes is underway. Possible causes include line voltage fluctuations due to starting/stopping large plant loads, electrical disturbances induced by welding in Unit 2, and inadequate skid and microprocessor ground. One other item which may be related is the monitor interlock setpoints. Setpoint adequacy is presently under review.



**Commonwealth Edison**  
Byron Nuclear Station  
4450 North German Church Road  
Byron, Illinois 61010

January 28, 1985

LTR: 85-0150

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C.

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10 CFR 50.75 (a) (2) (iv) which requires a 30 day written report.

This report is number 85-002-00 Docket No. 50-454.

Very truly yours,

R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

Enclosure: Licensee Event Report No. 85-002-00

cc: J. G. Keppler, NRC Region III Administrator  
J. Hinds, NRC Resident Inspector  
INPO Record Center  
CECO Distribution List

IE22  
1/1