

### LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>BYRON, UNIT 1</b>		DOCKET NUMBER (2) <b>0 5 0 0 0 4 5 4</b>	PAGE (3) <b>1 OF 0 2</b>
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TITLE (4)  
**FAILURE OF PROCESS RADIATION MONITOR AUTOMATIC CHECK RESULTING IN VC SHIFTING TO ESF MODE**

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	
11	27	84	84	021	01	10	12	48		
									DOCKET NUMBER(S) <b>0 5 0 0 0</b>	

OPERATING MODE (9) <b>5</b>	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) <b>0 0 0</b>	<input type="checkbox"/> 20.402(b)	<input checked="" type="checkbox"/> 20.408(e)	<input type="checkbox"/> 20.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.408(a)(1)(i)	<input type="checkbox"/> 20.38(a)(1)	<input type="checkbox"/> 20.73(a)(2)(v)	<input type="checkbox"/> 73.71(d)						
	<input type="checkbox"/> 20.408(a)(1)(ii)	<input type="checkbox"/> 20.38(a)(2)	<input type="checkbox"/> 20.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 386A)						
	<input type="checkbox"/> 20.408(a)(1)(iii)	<input type="checkbox"/> 20.73(a)(2)(i)	<input type="checkbox"/> 20.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.408(a)(1)(iv)	<input type="checkbox"/> 20.73(a)(2)(ii)	<input type="checkbox"/> 20.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.408(a)(1)(v)	<input type="checkbox"/> 20.73(a)(2)(iii)	<input type="checkbox"/> 20.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME <b>Andrew J. Selep, Technical Staff Engineer, Ext. 607</b>		AREA CODE <b>8 1 5</b>	<b>2 3 4 - 5 4 4 1</b>

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	
D	I L	R E	G O 6 3	N						

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)

Main Control Room Process Radiation Monitors have failed their automatic check source tests on six occasions between 11/27/84 and 12/03/84, causing the Main Control Room Ventilation System (VC) to switch to the ESF (Filtered Make Up) Mode of Operation. In each case, a manual check source test was subsequently performed and the monitor responded correctly. The VC system was restored to its normal operating mode in each case. The cause of the occurrences is insufficient tolerance in the check source setpoints.

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# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  BYRON, UNIT 1	DOCKET NUMBER (2)  0 5 0 0 0 4 5 4	LER NUMBER (8)	PAGE (3)									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">YEAR</th> <th style="width: 35%;">SEQUENTIAL NUMBER</th> <th style="width: 50%;">REVISION NUMBER</th> </tr> <tr> <td style="text-align: center;">8 4</td> <td style="text-align: center;">- 0 2 1</td> <td style="text-align: center;">- 0 1</td> </tr> </table>	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	8 4	- 0 2 1	- 0 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">0 2</td> <td style="width: 15%; text-align: center;">OF</td> <td style="width: 70%; text-align: center;">0 2</td> </tr> </table>	0 2	OF	0 2
YEAR	SEQUENTIAL NUMBER	REVISION NUMBER										
8 4	- 0 2 1	- 0 1										
0 2	OF	0 2										

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

Between November 27, 1984 and December 3, 1984 with the plant in Mode 5 there were six occurrences of a Main Control Room Process Radiation Monitor failing its check source test which places the Main Control Room Ventilation System in the ESF (Filter Make-up) Mode of Operation as designed. The six occurrences occurred at 11:14-11/27/84, 11:30-11/28/84, 3:11-11/30/84, 12:10-11/30/84, 11:15-12/01/84 and 3:13-12/03/84, and occurred in either of the two Train A Outside Air Intake Monitors OPR31J or OPR32J. A manual check source test of the monitor was subsequently performed in each case and the monitor responded correctly. The Main Control Room Ventilation System was subsequently returned to a normal operating mode. The plant was in operating Mode 5 at the time of the occurrences.

The impact of a check source test failure is that the Main Control Room Ventilation System switches to the Make Up Mode of Operation. This does not have an adverse effect on plant or public safety as this is the conservative response. There have been no previous occurrences.

The cause of these occurrences is insufficient tolerance in the check source setpoints. The check source setpoints are currently being revised to incorporate the required tolerances. Upon completion of the setpoint changes, automatic check source tests will be reinstated.



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

January 24, 1985

LTR: BYRON 85-0116

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

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you as a Supplemental Report to LER 84-021-00.

This report is number 84-021-01, Docket No. 50-454.

Very truly yours,

R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 84-021-01

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

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