

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
BYRON, UNIT 1

DOCKET NUMBER (2)  
0 5 0 0 0 4 | 5 4 1 OFD | 2

TITLE (4)  
NON ESF BUS 243 DOWN POWERED RESULTING IN DE-ENERGIZING SEVERAL RADIATION MONITORS

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
11	10	84	484	012	01	01	24	85			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9) 6

POWER LEVEL (10) 990

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

<input type="checkbox"/> 20.400(a)	<input type="checkbox"/> 20.400(a)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.400(a)(1)(ii)	<input type="checkbox"/> 60.30(a)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.400(a)(1)(iii)	<input type="checkbox"/> 60.30(a)(2)	<input checked="" type="checkbox"/> 60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
<input type="checkbox"/> 20.400(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(vii)(A)	
<input type="checkbox"/> 20.400(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.400(a)(1)(vi)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 60.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Andrew J. Selep, Technical Staff Engineer, Ext. 607

TELEPHONE NUMBER: 815 213 4154

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

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)

A Unit 2 Non-Engineered Safety Feature electrical bus was powered down resulting in an unexpected loss of power to 5 Process Radiation Monitors required to be operable by Technical Specifications. Radiation Monitoring of the Gas Decay Tank effluent, Liquid Radwaste effluent, Station Blowdown, and Unit 1 and Unit 2 Auxiliary Building Vent Stack effluent was affected. The Technical Specification action requirements were initiated immediately for the 5 monitors.

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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 8 4	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	0 1 2	0 1	0 2	0 2

TEXT // more space is required, use additional NRC Form 388A's (17)

On November 10, 1984 a Unit 2 Non-Engineered Safety Feature electrical bus was powered down to support Unit 2 testing activities. This resulted in an unexpected loss of communications between the Radiation Monitoring System Computer (RM-11) and 5 process radiation monitors. The plant was operating in Mode 6 with initial fuel loading in progress.

In preparation for the bus outage, operating and testing personnel reviewed the power supply book to determine what equipment would be affected. The radiation monitors were not clearly identified in the book; therefore, the monitor power supply was not evaluated as a piece of equipment that would be lost during the bus outage. The Technical Specification action requirements were initiated for the affected monitors. Radiation monitoring of the Gas Decay Tank effluent, Liquid Radwaste effluent, Station Blowdown, and Unit 1 and Unit 2 Auxiliary Building Vent Stack effluent was affected.

Plant and/or public safety was not affected due to prompt initiation of the action requirements and the designed automatic isolations associated with the Liquid Radwaste effluent and Gas Decay Tank effluent monitors.

The Technical Staff and Operating Special Projects Group have incorporated changes to the power supply book which correctly indicate electrical feeds to plant radiation monitors.



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

January 24, 1985

LTR: BYRON 85-0117

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 84-012-00.

This report is number 84-012-01, Docket No. 50-454.

Very truly yours,

R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 84-012-01

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

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