

LICENSEE EVENT REPORT (LER)

Facility Name (1) <div style="text-align: center;">Byron, Unit 1</div>	Docket Number (2) <div style="text-align: center;">0 5 0 0 0 4 5 4</div>	Page (3) <div style="text-align: center;">1 of 0 2</div>
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Title (4) **ESF ACTUATION DUE TO RADIATION MONITOR POWER FAIL**

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	3	2	7	8	5	8	5	---	0	3	6	0	0	0	0	4	1	8	8	5		0 5 0 0 0

OPERATING MODE (9) POWER LEVEL (10) <div style="text-align: center;">0 0 0</div>	5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)									
		20.402(b)		20.405(c)		X		50.73(a)(2)(iv)		73.71(b)	
		20.405(a)(1)(i)		50.36(c)(1)				50.73(a)(2)(v)		73.71(c)	
		20.405(a)(1)(ii)		50.36(c)(2)				50.73(a)(2)(vii)		Other (Specify in	
		20.405(a)(1)(iii)		50.73(a)(2)(i)				50.73(a)(2)(viii)(A)		Abstract below and	
		20.405(a)(1)(iv)		50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)		in Text)	
		20.405(a)(1)(v)		50.73(a)(2)(iii)				50.73(a)(2)(x)			

LICENSEE CONTACT FOR THIS LER (12)

Name <div style="text-align: center;">Michael Ryterski, System Test Engineer, Ext. 415</div>	TELEPHONE NUMBER AREA CODE <div style="text-align: center;">8 1 5 2 3 4 - 5 4 4 1</div>
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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	
C	I	L	/	/	/	G	0	6	3	N	

SUPPLEMENTAL REPORT EXPECTED (14)

Yes (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	Expected Submission Date (15)	Month Day Year
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Radiation Monitors OPR34J (Main Control Room Outside Air Intake "B"), 1RT-AR011 (Containment Fuel Handling Accident), and 1RT-AR012 (Containment Fuel Handling Accident) went into the interlock mode due to a power fail alarm caused by a voltage transient on the CECO 345KV system. The voltage transient was caused by a bushing failure on a 345/138 KV transformer at an offsite transmission substation. This caused the B Train of the Main Control Room Ventilation System to transfer to its ESF configuration. Modifications are in progress to lower the power fail alarm setpoint to a lower voltage in order to reduce the sensitivity of the process and area radiation monitoring system to voltage transients.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT

On March 27, 1985, at 1757, during mode 5 operation, radiation monitors OPR34J (Main Control Room Outside Air Intake "B"), 1RT-AR011 (Containment Fuel Handling Accident), and 1RT-AR012 (Containment Fuel Handling Accident) went into the interlock mode due to a power fail alarm caused by a voltage transient on the CECO 345KV system. This caused the Main Control Room Ventilation System to transfer to the makeup mode, which is its ESF configuration. The voltage transient was caused by a bushing failure on a 345/138KV transformer at an offsite transmission substation. The reason for the power fail function and alarm (line voltage less than 100 volts AC) of the radiation monitoring system microprocessor is to allow the data base to be transferred to a battery storage prior to an anticipated loss of AC voltage. Once the voltage transient passed, the monitors returned to normal operating status.

Plant and public safety were not affected since switching the Main Control Room Ventilation System to the makeup mode is an ESF function which establishes a safer plant condition.

There have been similar occurrences of Main Control Room Ventilation System actuations caused by voltage transients (LER 85-007-00, 85-010-00). Modifications are in progress to lower the power fail setpoint to 90 volts and the reset setpoint to 95 volts in order to reduce process and area radiation monitor sensitivity to voltage transients.



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

April 18, 1985

LTR: BYRON 85-0584

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 in accordance with the requirements of 10CFR50.73(a)(2)(iv) which requires a 30 day written report.

This report is number 85-036-00, Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-036-00

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

#3/017

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