

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) BYRON, UNIT 1										DOCKET NUMBER (2) 0 5 0 0 0 4 5 4										PAGE (3) 1 OF 0 2																																																						
TITLE (4) UV DETECTOR FAILURE PRIOR TO LICENSE																																																																										
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 NAME						DOCKET NUMBER (S)																																									
1			0			3			1			8			4			8			4			-			0			4			1			-			0			0			0			3			1			1			8			5			0 5 0 0 0						0 5 0 0 0					
OPERATING MODE (9) 2						THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																																																																				
POWER LEVEL (10) 0 0 0 0						38.4050a)						38.4050a)						66.730a(2)(vi)						73.710a)																																																		
						38.4050a(1)(i)						66.730a(1)						66.730a(2)(vi)						73.710a)																																																		
						38.4050a(1)(ii)						66.730a(2)						66.730a(2)(vi)						OTHER (Specify in Abstract below and in Part 4 of NRC Form 388A)																																																		
						38.4050a(1)(iii)						66.730a(2)(i)						66.730a(2)(vi)(A)																																																								
						38.4050a(1)(iv)						66.730a(2)(ii)						66.730a(2)(vi)(B)																																																								
38.4050a(1)(v)						66.730a(2)(iii)						66.730a(2)(vi)(C)																																																														
LICENSEE CONTACT FOR THIS LER (12)																																																																										
NAME Carlos Diaz, Fire Protection Engineer Ext. 659																TELEPHONE NUMBER AREA CODE 8 1 5 2 3 4 5 4 4 1																																																										
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																																										
CAUSE		SYSTEM		COMPONENT		MANUFAC- TURER		REPORTABLE TO NRC				CAUSE		SYSTEM		COMPONENT		MANUFAC- TURER		REPORTABLE TO NRC																																																						
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SUPPLEMENTAL REPORT EXPECTED (14)																EXPECTED SUBMISSION DATE (5)		MONTH		DAY		YEAR																																																				
YES (if yes, complete EXPECTED SUBMISSION DATE: )																X NO																																																										
ABSTRACT (Limit to 1400 words - a. approximately fifteen single-spaced typewritten lines) (15)																																																																										

An ultraviolet (UV) detector in zone 38, Fuel Handling Bldg, failed to annunciate during the performance of a Tech Spec Surveillance. This incident occurred prior to issuance of the station's operating license. Although the detector was replaced, the replacement was not proven operable as required by the Tech. Specs. until February 8, 1985. Thus a violation of the Tech. Specs occurred from the date of issuance of the operating license, 10/31/84, until a fire watch was initiated in the affected area on 12/21/84 for another reason. The Electrical Maintenance Dept has been instructed to initiate an independent review of future work packages prior to considering a surveillance complete and successful.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 2/21/88

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (3)

PAGE (3)

BYRON, UNIT 1

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TEXT (If more space is required, use additional NRC Form 305A (7/79))

During the performance of Tech Spec Surveillance BHS 3.3.7.1-2 on 10-1-84 it was noted that an ultraviolet detector in zone 38 failed to annunciate. Work request B11220 was initiated to replace the faulty detector. A LCO Action Requirement was not initiated for Byron Unit 1 since this incident occurred prior to issuance of the operating license. The detector was replaced and the trouble alarm was verified to have cleared but the replacement detector was never verified to annunciate when exposed to a UV test source as the surveillance requirement stated. BHS 3.3.7.1-2 was incorrectly signed off as complete. This situation was discovered on 2/13/85 after the surveillance had been reformed. Through a review of the previous surveillance dated 10/1/84 it was noted that zone 38 should have been declared inoperable starting 10/31/84 when Byron Unit 1 received its 5% license. The proper action that should have been initiated per Tech Specs was an hourly fire watch. This action was not implemented until 12/21/84 when unsealed penetrations in the fuel handling building were discovered (See LER 84-032-00).

The level of fire protection and/or plant safety was at no time decreased as the detector was in fact operable at all times.

The electrical maintenance dept. has been instructed by the station's surveillance coordinator to initiate an independent review (BAP 1400-T8) of future work packages prior to considering a surveillance complete and successful.

A prior instance of failing to verify satisfactory completion of a surveillance item prior to entering mode 6 was described in LER 85-018-00.



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

March 11, 1985

LTR: BYRON 85-0374

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 10CFR 50.73(a)(2)(i) which requires a 30 day written report.

This report is number 84-041-00, Docket No. 50-454.

Very truly yours,

R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 84-041-00

cc: J. G. Keppler, NRC Region III Administrator  
J. Hinds, NRC Resident Inspector  
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