

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) BYRON UNIT ONE DOCKET NUMBER (2) 05000454 PAGE 3  
1 OF 02

TITLE (4) REACTOR TRIP FROM TRAIN A OF THE SOLID STATE PROTECTION SYSTEM

EVENT DATE (8)			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	5	0	0	0	0	0	5	0			0 5 0 0 0
0	5	0	0	0	0	0	5	0			0 5 0 0 0

OPERATING MODE (9) 3

POWER LEVEL (10) 0.00

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 37. (Check one or more of the following) (11):

20.402(a)	20.408(a)	<input checked="" type="checkbox"/>	90.73(a)(2)(iv)	73.71(a)
20.408(a)(1)(i)	90.38(a)(1)	<input type="checkbox"/>	90.73(a)(2)(v)	73.71(a)
20.408(a)(1)(ii)	90.38(a)(2)	<input type="checkbox"/>	90.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Part. NRC Form 305A)
20.408(a)(1)(iii)	90.73(a)(2)(i)	<input type="checkbox"/>	90.73(a)(2)(vii)(A)	
20.408(a)(1)(iv)	90.73(a)(2)(ii)	<input type="checkbox"/>	90.73(a)(2)(vii)(B)	
20.408(a)(1)(v)	90.73(a)(2)(iii)	<input type="checkbox"/>	90.73(a)(2)(viii)	
20.408(a)(1)(vi)	90.73(a)(2)(iv)	<input type="checkbox"/>	90.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Lowell Larson, System Test Engineer, Ext. 415 TELEPHONE NUMBER 815 2345444

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
A	JIG			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 or approximately fifteen single-space typewritten lines) (16)

With the plant operating in Mode 3 and start-up testing which involved the Solid State Protection System (SSPS) in progress, a reactor trip occurred. The trip occurred when an Instrument Mechanic grounded a strip chart recorder connector which induced an electrical spike on the Train A (Channel II) SSPS inputs. The Train A reactor trip breaker opened on a Source Range High Flux Reactor Trip signal.

The connector was grounded because it was not the correct size for the application. Recurrence will be prevented by using the correct connectors in the future.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  BYRON UNIT ONE	DOCKET NUMBER (2)				LER NUMBER (6)			PAGE (3)													
					YEAR	SEQUENTIAL NUMBER	REVISION NUMBER														
	0	5	0	0	0	4	5	4	8	5	-	0	1	6	-	0	0	0	2	OF	0

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 1-24-85 at 0615 CST, the plant experienced a reactor trip. The plant was in mode 3, Hot Standby, with the reactor trip breakers closed when the event occurred.

During start up testing involving the Solid State Protection System (SSPS), an electrical spike was induced by an Instrument Mechanic grounding a strip chart recorder connector that was attached to one of the terminal strips in the channel II input bay of the Train A SSPS. Although the Source Range Trip input itself was not being monitored by the strip chart recorder, the electrical spike produced a Train A reactor trip from a Source Range High Flux signal. The separation of trains prevented the Train B SSPS from receiving the same Source Range trip signal. Source Range monitors indicated normal flux levels before and after the trip occurred.

Because the exact relationship between the electrical spike and the Source Range Trip could not be determined, surveillances were performed to verify proper operation of both trains of the SSPS and both reactor trip breakers. All the surveillance results were acceptable.

The connector was grounded because it was not the correct size for the application. Recurrence will be prevented by ensuring that the Instrument Maintenance Department uses the correct connectors in the future.

The event in no way endangered the health and safety of the public as the reactor trip is an actuation of a protection system.

Previous occurrences: None



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

February 19, 1985

LTR: BYRON 85-0256

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)(iv) which requires a 30 day written report.

This report is number 85-016-00, Docket No. 50-454.

Very truly yours,

R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

Enclosure: Licensee Event Report No. 85-016-00

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

IE22  
11