

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) BYRON UNIT ONE										DOCKET NUMBER (2) 0 5 0 0 0 4 5 4										PAGE (3) 1 OF 0 2	
TITLE (4) REACTOR TRIP FROM TRAIN A OF THE SOLID STATE PROTECTION SYSTEM																					
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 1	2 4	8 5	8 5	0 1 6	0 0 0	2 1	9 8	5							0 5 0 0 0						
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																		
3			20.402(a)				20.406(a)				<input checked="" type="checkbox"/> 90.73(a)(2)(vi)				73.71(a)						
POWER LEVEL (10)			20.406(a)(1)(i)				90.36(a)(1)				90.73(a)(2)(v)				73.71(a)						
0 0 0			20.406(a)(1)(ii)				90.36(a)(2)				90.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Part 4 of Form 306A)						
			20.406(a)(1)(iii)				90.73(a)(2)(i)				90.73(a)(2)(viii)(A)										
			20.406(a)(1)(iv)				90.73(a)(2)(ii)				90.73(a)(2)(viii)(B)										
			20.406(a)(1)(v)				90.73(a)(2)(iii)				90.73(a)(2)(ix)										
LICENSEE CONTACT FOR THIS LER (12)																					
NAME										TELEPHONE NUMBER											
Lowell Larson, System Test Engineer, Ext. 415										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 TURE	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NRC											
A	J	G									N										
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (5)				MONTH DAY YEAR							
YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO											

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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

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

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