

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) ENVIRONMENTALLY UNQUALIFIED TERMINAL STRIPS IN MSIV'S																	
Event Date (5)			L/R 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 8	2 9	8 5	8 5	0 8 6	0 0	0 9	2 7	8 5					0 5 0 0 0				
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)														
POWER LEVEL (10) 0 0 9			20.402(b)			20.405(c)			50.73(a)(2)(iv)				73.71(h)				
			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				
			20.405(a)(1)(iii) X			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)				in Abstract				
			20.405(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)				below and in				
20.405(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(x)				Text)							
LICENSEE CONTACT FOR THIS LER (12)																	
Name Matthew M. Robert, System Test Engineer										TELEPHONE NUMBER Ext. 2383							
ARFA 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 NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS							
B	S B	V	P 0 7 0	Y													
SUPPLEMENTAL REPORT EXPECTED (14)												Expected Submission Date (15)					
Yes (If yes, complete EXPECTED SUBMISSION DATE)												X NO					
ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single-space typewritten lines) (16)																	

The Main Steam Isolation Valves (MSIV's) were declared inoperable due to environmentally unqualified terminal strips located in the junction boxes on the MSIV's. The environmentally unqualified terminal strips were removed and the wires were reattached with Raychem splice kits per approved procedures. Raychem splice connections have been environmentally qualified for the steam tunnel area.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION												
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)				
		Year	///	Sequential Number	///	Revision Number						
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TEXT												

On August 29, 1985, at 1952 hours, with the plant in Mode One and operating at nine percent power, all four MSIV's were declared inoperable due to environmentally unqualified terminal strips located in the MSIV junction boxes.

The inoperability of the four MSIV's required the plant to shutdown to Mode 4, requiring an Unusual Event to be declared. A modification to replace the terminal strips began upon the completion of the plant shutdown.

The unqualified terminal strips were discovered by a visual inspection that was prompted by a notification from Wolf Creek Generating Station. Wolf Creek identified environmentally unqualified terminal strips on their MSIV's and their Feedwater Isolation Valves (FWIV's) on July 31, 1985.

The terminal strips are Model #NU2, nylon strips, manufactured by Connectron. The Connectron terminal strips are environmentally unqualified because long term exposure to low levels of radiation can cause the nylon strips to become brittle and crack. This condition could possibly render the MSIV's inoperable.

The unqualified terminal strips were removed and the wires were reconnected with environmentally qualified Raychem splice kits per approved procedures.

There was no effect on plant or public safety because at the time of the terminal strips replacement there was no evidence of embrittlement or cracking, which could have caused the MSIV's to malfunction.



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

September 27, 1985

LTR: BYRON 85-1326

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

This report is number 85-086-00; Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Manager
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-086-00

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

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