LICENSEE EVENT REPORT (LER)								U.S. NUCLEAR REGULATORY COMMISSION APPROVED OM8 NO: 3150-0104 EXPIRES: 8/31/85					
FACILITY N									OCKET NUMBER			GE (3)	
BYR	ON,	UNIT 1						!	0 15 0 0	0 4 5	4 1 OF	012	
BOR	ON D	ILUTION P	PROTECTION	ACTUAT	ION								
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MOD			402(b)	DPORSUANT	20.406(c)	ENTS OF 10	X	50.73(a)(2)(iv)	t the fallowing) (11) 73,71(b)			
POWER 20.406(a)(1)(0)				50.36(e)(1) 50.73(a)(2)(v)				73.71(e)					
(10)	LEVEL 0 0 0 0 20.406(a)(1)(8)				50.35(c)(2) 50.73(c)(2)					OTHER (Specify in Abstract			
			.406(a)(1)(iv)	-	50.73(a)(2)(i) 50.73(a)(2)(ii)		-	50.73(a)(2)(viii)(A		366A)			
20.408(a)(1)(iv) 20.408(a)(1)(v)				50.73(a)(2)(iii) 50.73(a)(2)(x)									
				L	ICENSEE CONTACT	FOR THIS	LER (12)						
NAME	14.00	P. 6-145	Merchal	1 01 0	6 Providence				TELEPHON		IMBER		
Will	LIAM	E. Smith	, Technica	al Staff	Engineer	r, Ext	. 607			2 13 14 1-15 14 1411			
			COMPLETE	ONE LINE FOR	EACH COMPONEN	T FAILURE	DESCRIBE	D IN THIS REPOR	the second s	-1-1-1	I'I'	1-1-	
CAUSE ST	YSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABL TO NPROS	E .		
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X YES /			SURMISSION DATE		NO				SUBMISSION DATE (15)		3 3 1	815	
On 1 actu in e Rang was valv	11/2 uated each ge cl in p ve 1	7/84 (2 e d resulti case was hannels. progress, ine-up wa	events), 1 ng in a cl determine After det and clea: s restored noise sp:	1/28/84 harging ed to ha terminat rance of d. West	, and 12/2 pump such ave been of tion by sh f the BDPS	tion s caused hift p S alar	witch by a erson m, th	over to t noise sp nel that e normal	he RWST. ike seen no dilut: charging	The ac on the lon tran pump su	tuatio Source sient ction	'n	
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NRC Form 366A (9-83)	LICENSEE EVEN	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
FACILITY NAME (1)	Que autorau-	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
			YEAR	SEQUENTIAL	REVISION		T
BYRON, UNIT	L	0 5 0 0 0 4 5 4	8 4 -	1 016	- 010	0120	FOR

TEXT (If more space is required, use additional NRC Form 386A's) (17)

On four separate occasions while in Mode 5 performing post-core loading pre-criticality tests and surveillances, the Boron Dilution Protection Systems (BDPS) actuated resulting in a charging pump suction valve switchover as designed. In each case, the actuation was caused by noise spiking on the Source Range channels. The actuations occurred on 11/27/84 at 0746, on 11/27/84 at 1540, on 11/28/84 at 1135, and on 12/2/84 at 1458.

Currently, if a noise spike of sufficient amplitude and duration occurs to trip the Boron Dilution Protection System (flux doubling in ten minutes or less) the charging pump suction switchover occurs. This is a conservative occurrence which poses no safety hazard to the plant or public.

Byron Station has requested Westinghouse to determine the feasibility of filtering the input to BDPS to eliminate or reduce the actuations resulting from spiking or to modify the BDPS microprocessor software to include some type of smoothing algorithm to provide a time delay in BDPS response to step input changes (spikes).

There have been no previous similar events.



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

December 26, 1984

LTR: Byron 84-1566

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 84-019-00, Docket No. 50-454.

Very truly yours,

Churio

R. E. Querio Station Superintendent Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 84-019-00

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

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