

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) BYRON, UNIT 1										DOCKET NUMBER (2) 0 5 0 0 0 4 5 4 1 OF 0 2										PAGE 3																								
TITLE (4) MANUAL AUX FEED INITIATION																																												
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 None						DOCKET NUMBER(S) 0 5 0 0 0																													
0	3	1	3	8	5	8	5	0	3	0	0	0	4	0	5	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)																																										
1		<table border="0"><tr><td>20.402(a)</td><td>20.408(a)</td><td><input checked="" type="checkbox"/> 80.73(a)(2)(iv)</td><td>73.71(b)</td></tr><tr><td>20.408(a)(1)(i)</td><td>80.30(a)(1)</td><td>80.73(a)(2)(vi)</td><td>73.71(a)</td></tr><tr><td>20.408(a)(1)(ii)</td><td>80.30(a)(2)</td><td>80.73(a)(2)(viii)</td><td>OTHER (Specify in Addendum below and in Text, NRC Form 308A)</td></tr><tr><td>20.408(a)(1)(iii)</td><td>80.73(a)(2)(i)</td><td>80.73(a)(2)(viii)(A)</td><td></td></tr><tr><td>20.408(a)(1)(iv)</td><td>80.73(a)(2)(ii)</td><td>80.73(a)(2)(viii)(B)</td><td></td></tr><tr><td>20.408(a)(1)(v)</td><td>80.73(a)(2)(iii)</td><td>80.73(a)(2)(ix)</td><td></td></tr></table>																			20.402(a)	20.408(a)	<input checked="" type="checkbox"/> 80.73(a)(2)(iv)	73.71(b)	20.408(a)(1)(i)	80.30(a)(1)	80.73(a)(2)(vi)	73.71(a)	20.408(a)(1)(ii)	80.30(a)(2)	80.73(a)(2)(viii)	OTHER (Specify in Addendum below and in Text, NRC Form 308A)	20.408(a)(1)(iii)	80.73(a)(2)(i)	80.73(a)(2)(viii)(A)		20.408(a)(1)(iv)	80.73(a)(2)(ii)	80.73(a)(2)(viii)(B)		20.408(a)(1)(v)	80.73(a)(2)(iii)	80.73(a)(2)(ix)	
20.402(a)	20.408(a)	<input checked="" type="checkbox"/> 80.73(a)(2)(iv)	73.71(b)																																									
20.408(a)(1)(i)	80.30(a)(1)	80.73(a)(2)(vi)	73.71(a)																																									
20.408(a)(1)(ii)	80.30(a)(2)	80.73(a)(2)(viii)	OTHER (Specify in Addendum below and in Text, NRC Form 308A)																																									
20.408(a)(1)(iii)	80.73(a)(2)(i)	80.73(a)(2)(viii)(A)																																										
20.408(a)(1)(iv)	80.73(a)(2)(ii)	80.73(a)(2)(viii)(B)																																										
20.408(a)(1)(v)	80.73(a)(2)(iii)	80.73(a)(2)(ix)																																										
POWER LEVEL (10) 0 1 1 0																																												
LICENSEE CONTACT FOR THIS LER (12)										TELEPHONE NUMBER																																		
NAME Joe Reister, System Engineer, Ext. 384										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. TURNER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURNER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURNER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURNER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURNER	REPORTABLE TO NPDOS																				
B	FW	/ / / / /	/ / / / /	N																																								
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)										MONTH	DAY	YEAR																						
YES (If yes, complete EXPECTED SUBMISSION DATE:)										<input checked="" type="checkbox"/> NO																																		

ABSTRACT Limit to 400 words - 4 approximately 17000 single space typewritten words (16)

During an up-power maneuver to 10%, steam generator narrow range levels decreased to 4% above the LO LO setpoint as excessive pressure drop across the Condensate Polishers caused suction pressure at the Startup Feedwater Pump to decrease. The 1A Aux Feed Pump was manually started. Also, a low pressure drop flow path in parallel with the polishers was throttled open, increasing FW suction pressure. Steam generator levels were recovered and Aux Feed was secured.

A modification is in progress to provide for automatic polisher bypass on low condensate booster pump suction pressure.

8504170499 850405
PDR ADOCK 05000454
S PDR

IER22
11

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (3)

PAGE (3)

BYRON, UNIT 1

0 5 0 0 0 4 5 4 8 5 - 0 3 b - 0 b 0 2 OF 0 2

TEXT (If more space is required, use additional Form NRC-288A's) (17)

On 3/13/85 with the plant initially at 7% power and an up-power maneuver in progress, steam generator levels were being controlled manually. At 0650 the Unit operator noted low FW suction pressure (590 psig) causing steam generator levels to drop. A third condensate pump was placed in service. At 0712, generator load was shed by 15 MW to 60 MW. At 0713, the 1A Aux Feed Pump was started with its throttle valves mostly closed to not further shrink levels. At 0720, a gland steam condenser outlet valve (LCD043B) was opened. This parallel path to the polishers had negligible pressure drop compared with the polishers. Condensate Booster and Feedwater suction header pressures then increased (720 psig) allowing for adequate feedwater discharge flow which led to steam generator level recovery. At 0721 the 1A Aux Feed pump was secured.

Two conditions led to this event:

First the condensate polishers were imposing an excessive pressure drop on the condensate/condensate booster system which degraded the performance of the Start-up Feedwater Pump. Polisher flows were at maximum in support of secondary cleanup efforts to meet chemistry restrictions.

Secondly, the recirculation valve for the Start-up Feedwater Pump is not currently throttlable. Due to the pump's large recirculation flow requirement, discharge flow never reaches the point where the recirculation valve closes automatically.

System modifications are in progress to auto bypass the polishers on condensate booster pump low suction pressure and to upgrade the start-up FW pump recirculation control system to modulate the valve proportionally with discharge flow.

This event did not affect plant or public safety since the auxiliary feedwater system was available to supply the necessary feedwater should a reactor trip have occurred.

Previous occurrence: NONE



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

April 5, 1985

LTR: BYRON 85-0490

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

This report is number 85-030-00, Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-030-00

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

#3/017

IE 22
1/1