LICENSEE EVENT REPORT (LER)

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Title (4) MAIN STEAMLINE ISOLATION DURING SURVEILLANCE TESTING

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 7	1 7	8 5	8 5	0 7 1	0 0	0 8	1 4	8 5		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9): 5

POWER LEVEL (10): 0 0 0

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

___ 20.402(b)	___ 20.405(c)	X 50.73(a)(2)(iv)	___ 73.71(b)		
___ 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 in Abstract below and in Text)		
___ 20.405(a)(1)(iii)	___ 50.73(a)(2)(i)	___ 50.73(a)(2)(viii)(A)			
___ 20.405(a)(1)(iv)	___ 50.73(a)(2)(ii)	___ 50.73(a)(2)(viii)(B)			
___ 20.405(a)(1)(v)	___ 50.73(a)(2)(iii)	___ 50.73(a)(2)(x)			

LICENSEE CONTACT FOR THIS LER (12)

Name	TELEPHONE NUMBER
Harold Long Ext. 2276	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	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
D	J E			N					

SUPPLEMENTAL REPORT EXPECTED (14)

___ Yes (If yes, complete EXPECTED SUBMISSION DATE)

X NO

Expected Submission Date (15): Month | Day | Year

ABSTRACT (Limit to 1400 spaces, i.e, approximately fifteen single-space typewritten lines) (16)

While conducting a functional test of Steam Generator 1B Pressure Protection Channel III, an inadvertent Main Steamline Isolation Signal (MSIS) was initiated. The MSIS was due to an incorrect note in the procedure which, while in Mode 5, allowed redundant steamline pressure rate bistables to be tripped when performing the surveillance When the channel to be tested was placed in "TEST", a second rate bistable was already tripped due to a failed circuit card, and the MSIS actuation coincidence logic was satisfied.

The functional test procedures for the steam generator pressure protection channels have been revised to correct the note.

(0639M)

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT

On July 17, 1985 at 1318 CDT, a Main Steamline Isolation Signal (MSIS) was initiated while performing a functional test on Steam Generator (S/G) 1B Pressure Protection Channel III. At the time of the MSIS the unit was in Mode 5. In this condition, the Low Steamline Pressure Safety Injection Signal is disabled by protective interlock P-11 (Pressurizer Pressure less than 1930 psig), and the Steamline Pressure Rate (pressure decrease greater than 100 psig in 50 sec.) MSIS is enabled.

Prior to the functional test being initiated, a redundant S/G steamline rate bistable was in a tripped condition due to a failed circuit card and the appropriate Technical Specification Action Requirements were being followed.

Prior to commencing the test the control systems technician (CST) received authorization from the Shift Engineer and briefed the Shift Control Room Engineer and Unit One Nuclear Station Operator (NSO) on the test. The Unit One NSO placed orange stickers on the Annunciators and Indicators listed in the procedure to denote items involved in the test. In accordance with the procedure the Solid State Protection System was placed in the Multiplex (MPX) A&B mode and the bistable trip status lights verified. An incorrect note in the procedure allowed the procedure to be continued with a redundant steamline pressure rate bistable tripped.

When the instrument loop was placed in test, the two out of three coincidence logic was satisfied and MSIS generated. The three open Main Steamline Isolation valves closed as required. The fourth valve was closed and out of service. The Unit One NSO notified the CST of the MSIS and the loop was returned to service. Normal system alignment was restored in accordance with station procedures.

This event caused no effect on plant or public safety as plant systems responded as required.

To prevent recurrence, the functional test procedures for S/G pressure protection channels have been revised to provide the correct status of the S/G pressure bistables. This event has been reviewed within the Instrument Maintenance Department stressing the Engineered Safeguards Feature Actuation Signal logic differences that exist while in a shutdown condition. The Operating Department will review this as part of the station's required reading program.

Previous occurrences: None

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

August 14, 1985

LTR: BYRON 85-1150

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 85-071-00; Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-071-00

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

#3/017

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