

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) AUTOMATIC ACTUATION OF FUEL HANDLING BUILDING CHARCOAL BOOSTER FAN

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	2	9	8	5	8	5	---	0	7	4	---	0	0	0	8	2	9	8	5		0 5 0 0 0 1 1

OPERATING MODE (9) 4 THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)

POWER LEVEL (10) 0 0 0	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 Tom Tillmann, System Test Engineer TELEPHONE NUMBER 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-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS
A	V	G		N					

SUPPLEMENTAL REPORT EXPECTED (14)

Expected Submission Date (15) X NO

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

During the trouble shooting of a failed open damper, an attempt to close the damper was made by de-energizing and then re-energizing the power to the damper. However, the power supply location was labeled as a 120V distribution panel transfer breaker instead of a specific circuit on the 120V distribution panel. Thus when the breaker was opened and closed the power to the entire 120V distribution panel was temporarily disrupted. When the power was disrupted a Fuel Handling Building (FHB) radiation monitor (also powered from the 120V distribution panel) went into its interlock condition. This resulting interlock automatically started a FHB charcoal booster fan on a high radiation signal, which is a required ESF actuation.

A "CAUTION" card has been placed at the breakers to prevent recurrence, a work request has been written to correct this label, and additional training on breaker function will be provided to operators.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT

At the time of this event, Unit 1 was in Mode 4. The Auxiliary Building (AB) Ventilation was in operation with two supply and two exhaust fans running. The Fuel Handling Building (FHB) Ventilation was in the bypass (or normal) mode.

At approximately 0350 on 7-29-85 while conducting a surveillance on the AB Ventilation System, an exhaust damper failed in the open position. While trouble-shooting the problem, an attempt was made to free the damper by de-energizing and then re-energizing the power to the damper. An operator was dispatched to the power supply breaker as referenced on the damper label in the Control Room. At this time the breaker was opened and then closed again.

This breaker is actually the main circuit breaker for a 120V distribution panel. This distribution panel not only feeds power to the damper but also, among other equipment, to the ORT-AR056 process radiation monitor for the FHB Ventilation System. When the power was disrupted to the monitor, the monitor went into its interlock condition. In accordance with the design, the FHB charcoal booster fan then automatically started. The system was put into its ESF operating mode by the fan start and therefore there was no adverse effect on plant or public safety.

The following is a list of the additional components which had their power momentarily disrupted:

- Post accident neutron monitor channel B.
- Space heater feeds for motor operated valves.
- Reactor Containment Fan Coolers B and D vibration switches.
- Component cooling flow switches.
- Main feed for fire detection at 1PM09J.
- Main feed for fire suppression input cabinet 1PA40J.
- Power for components in fire detection control cabinet 1PA49J.
- Power for components in fire detection control cabinet 1PA39J.
- Motor space heater for 1VP01CB RCFC.
- Misc. panel 1PA34J.
- Process I & C Rack protection cabinet 1PA02J.

None of the components were damaged from the disruption of power. As soon as the power was restored they continued to serve their functions. These components were inoperable for less than one minute.

This was a cognitive error in that the operator failed to recognize that opening the breaker, would de-energize the power to the entire 120V distribution panel.

As immediate corrective action to prevent recurrence, a "CAUTION" card was placed at the breaker to inform operators of the consequences of opening the breaker. Work Request B21696 was then written to change the damper label to read the specific power supply location at the 120V distribution panel and not the main feed to the 120V distribution panel. This will be done for all damper labels in the Control Room. Additionally, operators will be further trained on the power supply feeds for 120V distribution panels. AIR #6-85-282 was written to track the additional operator training and the label changes.



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

August 29, 1985

LTR: BYRON 85-1196

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 85-074-00; Docket No. 50-454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-074-00

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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