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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPR	OVE	0 0	MC	BNO	31	50-01	04
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FACILITY NAME (1)		DOCKET NUMBER (2)							LER NUMBER (6)						PAGE (3)			
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EVENT DESCRIPTION

NRC Form 366A

On January 4, 1984, a discharge test was performed on the newly installed '2A' 48 volt battery (DC power system - Class IE -- EJ). After the test, the '2A' battery was placed on charge. During this time, the '2A' and '2B' 48 volt DC distribution panels were temporarily interconnected; the power for them being supplied by the 2B battery.

On January 6, 1984, the '2A' 48 volt battery was sufficiently charged to allow transferring the '2A' and '2B' distribution panels to the '2A' battery in order to replace the '2B' 48 volt battery. A Technical Staff Engineer made arrangements for the transfer and informed the Unit 2 Control Room Operator that the transfer would cause a half scram. At 1:10 p.m., under the supervision of the Technical Staff Engineer, an Equipment Operator began the transfer. While the transfer was taking place, a full scram occurred on Unit 2 rather than the expected half scram.

At the '2A' and '28' 48 volt DC distribution panels, the Technical Staff Engineer realized, while performing the transfer, that both distribution panels had de-energized, because all four of the panel voltmeters had dropped to zero. He instructed the Equipment Operator to complete the transfer quickly and restored power to both distribution panels.

Throughout this course of events, Unit 2 was in the REFUEL mode with no fuel moves taking place. At the time of the scram, all control rods were fully inserted. The scram was caused by a simultaneous loss of power to the '2A' and '2B' 48 volt DC distribution panels. These panels supply power to the two divisions of Source Range and Intermediate Range Monitors of the neutron monitoring system (incore/excore contoring system -- IG). Loss of both divisions of neutron monitoring caused both channels of the Reactor Protection System (plant protection system -- JC) to actuate, which resulted in a full scram. The neutron monitoring system and RPS functioned as designed.

This occurrence is reported in accordance with 10 CFN 50.73(a)(2)(iv).

CAUSE

The cause of this occurrence was a cognitive error on the part of the Technical Staff Engineer. He failed to realize that with the crosstie in place, the '2A' and '2B' 48 volt DC distribution panels would have to be separated and transferred individually rather than together. This resulted in both neutron monitoring channels being de-energized simultaneously instead of individually.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

ACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)	PAGE (3)		
Quad-Cities Nuclear Power Station		YEAR	SEQUENTIAL	REVISION NUMBER		
Unit 2	0 15 10 10 10 12 16 15	8 4	-0 1012	- 010	013	DF 0 3

CORRECTIVE ACTION

NRC Form 366A

On seeing that both the '2A' and '2B' 48 volt DC distribution panels had de-energized, the Technical Staff Engineer instructed the Equipment Operator to complete the transfer to re-energize them. When this was done, the Unit 2 Control Room Operator was able to reset the scram. The duration of the scram signal was less than 30 seconds.

Transferring loads on the 48 volt DC distribution panels is performed routinely during unit outages for maintenance and battery discharge tests. Care is taken during transfers to prevent paralleling the batteries and battery chargers. The battery systems were not put in parallel and all systems operated as designed, therefore, no corrective action is deemed necessary at this time.



Commonwealth Edison

Quad Cities Nuclear Power Station 22710 206 Avenue North Cordova, Illinois 61242 Telephone 309/654-2241

NJK-84-35

January 27, 1984

U. S. Kuclear Regulatory Commission Document Control Desk Washington, DC 20555

Reference: Quad-Cities Nuclear Power Station Docket Number 50-265, DPR-30, Unit Two

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Enclosed please find Licensee Event Report Number (LER) 84-2 for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2) (iv), as an event that resulted in the automatic actuation of the Reactor Protection System.

Respectfully,

COMMONWEALTH EDISON COMPANY QUAD-CATIES NUCLEAR POWER STATION

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N. J. Kalivianakis Station Superintendent

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Enclosure

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cc B. Rybak A. Morrongiello INPO Records Center NRC Region III