

October 23, 1995

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE PNO-III-95-055

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by Region III staff (Lisle, Illinois) on this date.

Facility	Licensee Emergency Classification
Commonwealth Edison Co.	Notification of Unusual Event
Quad Cities 1 2	Alert
Cordova, Illinois	Site Area Emergency
Dockets: 50-254,50-265	General Emergency
	X Not Applicable

Subject: SHUTDOWNS TO MODIFY REACTOR PROTECTION SYSTEM LOGIC

On October 21, 1995, Quad Cities Units 1 and 2 commenced plant shutdowns because the units did not meet the single failure criteria for the scram discharge instrument volume logic circuit. The scram discharge instrument volume has redundant and diverse instrumentation; however, the one-out-of-two taken twice logic scheme was found susceptible to a single failure if an increasing level occurred in one instrument volume and an associated relay (e.g. 590-100A) failed to move to its deenergized position. The resultant configuration would only provide a "half-scram" signal without any control rod movement. The increasing level should trigger a scram of the reactor.

The logic problem was initially discovered at Dresden while performing instrument surveillance testing at Dresden Unit 2 on October 20, 1995. Dresden Unit 2 is in a refueling outage and in a defueled condition. Dresden Unit 3 is presently operating and has been verified to have the correct logic configuration.

The licensee anticipates the units being shutdown for approximately five days.

The State of Illinois will be notified. The information in this preliminary notification has been reviewed with licensee management.

The licensee notified the NRC Operations Center at 8:33 p.m. (CDT) on October 21, 1995. This information is current as of 2:00 p.m. (CDT) on October 23, 1995.

Contact: PAT HILAND	BRENT CLAYTON
(708)829-9603	(708)829-9602

9510250273 951023
PDR I&E
PNO-III-95-055 PDR

JE34/10