



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

March 9, 1992

Dr. Thomas E. Murley, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attn: Document Control Desk

Subject: Dresden Nuclear Power Station Units 2 and 3
Quad Cities Nuclear Power Station Units 1 and 2
Zion Nuclear Power Station Units 1 and 2
LaSalle County Nuclear Power Station Units 1 and 2
Byron Nuclear Power Station Units 1 and 2
Braidwood Nuclear Power Station Units 1 and 2
Second-Level Undervoltage (Degraded
Voltage) Setpoint Verification
NRC Docket Nos. 50-237/249, 50-254/265,
50-295/304 50-373/374, 50-454/455, 50-456/457

Reference: T. Kovach (CECo) letter to U.S. Nuclear Regulatory
Commission, dated November 4, 1991.

Dear Dr. Murley:

During the Electrical Distribution System Functional Inspection (EDSFI) for Dresden Station, Commonwealth Edison Company (CECo) was requested to verify that the existing second-level undervoltage (degraded voltage) setpoint for the station's 4 kV safety buses was sufficient to ensure adequate voltage to start and operate all Class 1E equipment. Based on the results of that verification for Dresden Station, CECo is evaluating the second-level undervoltage setpoint for each of its nuclear stations. To support these evaluations, CECo is pursuing revised critical voltage calculations for each station. A schedule for the completion of those critical voltage calculations (for the first/initial division of each station) was presented in the referenced letter. Because of a greater than anticipated engineering work scope (20,000 person-hours to-date with an estimated additional 22,000 person-hours to complete all remaining calculations), a schedule slippage has occurred. The purpose of this letter is to update the status (and schedule) for the critical voltage calculations.

Dresden Station (Units 2 and 3)

The critical voltage calculations for each unit have been completed, and a new second-level undervoltage (degraded voltage) setpoint for Unit 2 has been implemented. The new setpoint for Unit 3 has been implemented to support unit startup from the current refueling outage.

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Quad Cities (Units 1 and 2)

The critical voltage calculation for the first/initial-division (Unit 2 Division II) will be completed by March 30, 1992. The calculations for the remaining divisions (for each unit) will be completed by July 31, 1992.

Zion Station (Units 1 and 2)

Preliminary critical voltage calculations for the first/initial division (Unit 1 Division 19) have been completed. These calculations justify the existing second-level undervoltage setpoint for Division 19. While engineering assumptions are being verified, administrative measures (applicable to both units) have been established to maintain safety bus voltage. The calculations for the remaining divisions (for each unit) will be completed by August 30, 1992.

LaSalle County Station (Units 1 and 2)

The critical voltage calculations for Unit 1 (Divisions I, II and III) have been completed. As a result of those calculations, the second-level undervoltage setpoint has been increased (from a normal setpoint of 3814 to 3885 volts) for Unit 1 Divisions I and II. In addition, administrative measures have been established (applicable to both units) to maintain safety bus voltage. The calculations for Unit 2 will be completed by May 31, 1992.

Byron/Braidwood Stations (Units 1 and 2)

A critical voltage calculation for a composite division is being performed for Byron/Braidwood Stations. This calculation which is utilizing the bounding loads and cable lengths from all divisions, will be completed by April 30, 1992. Based on the bounding approach being utilized, it is not anticipated that critical voltage calculations will be performed on a divisional basis.

Please contact this office should further information be required.

Respectfully,


for Milton H. Richter
Nuclear Licensing Administrator

cc: A. Bert Davis, Regional Administrator - Region III
D.S. Butler, Region III Inspector
NRR Project Managers - D/QC/Z/LSC/BY/BW
Senior Resident Inspectors - D/QC/Z/LSC/BY/BW