



**Commonwealth Edison**  
 One First National Plaza, Chicago, Illinois  
 Address Reply to: Post Office Box 767  
 Chicago, Illinois 60690

March 4, 1982



Mr. Harold R. Denton, Director  
 Office of Nuclear Reactor Regulation  
 U.S. Nuclear Regulatory Commission  
 Washington, DC 20555

Subject: Dresden Station Units 2 and 3  
 Quad Cities Station Units 1 and 2  
 Proposed Technical Specifications  
 Changes to Implement Second-Level  
 Undervoltage Relays  
 NRC Docket Nos. 50-237/249 and  
 50-254/265

- References (a): D. Davis letter to R. Bolger dated June 3, 1977.
- (b): R. Bolger letter to K. Goller dated June 26, 1977.
- (c): R. Janecek letter to W. Gammill dated October 9, 1979.
- (d): R. Janecek letter to D. Eisenhut dated June 26, 1980.
- (e): T. Novak letter to D. Peoples dated August 13, 1980.
- (f): R. Janecek letter to T. Novak dated October 1, 1980.
- (g): T. Rausch letter to D. Eisenhut dated October 28, 1981.
- (h): T. Rausch letter to P. O'Connor dated January 6, 1982.

*AOIS w/check \$8,800*

Dear Mr. Denton:

Pursuant to 10 CFR 50.59, Commonwealth Edison hereby proposes to amend Appendix A, Technical Specifications to Operating Licenses DPR-19, DPR-25, DPR-29 and DPR-30 for Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2, respectively. The proposed changes anticipate the addition of second level undervoltage protection relays to the on-site power systems of the four Dresden and Quad Cities Units. These relays, also called degraded voltage relays, are planned to be installed in response to NRC concerns identified in Reference (a).

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References (b) and (c) responded to the original concerns and to further NRC requests for information relative to the analyses we submitted which indicated that the probability of system voltages degrading to a level which could cause equipment failures was in the range of  $10^{-7}$  to  $10^{-15}$ . In Reference (d), we provided a revised response to the original concerns which was later augmented by Reference (f); following receipt of the Reference (e) request for more information.

Reference (e) also requested a copy of draft or final form Technical Specifications so that our submittals could be completely evaluated. Draft Technical Specifications for Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2 were provided in Reference (g). Following numerous telephone conversations with your staff, revised draft Technical Specifications were submitted in Reference (h). The changes proposed in this letter incorporate all the comments and items discussed with your staff subsequent to our Reference (h) transmittal.

The proposed changes for Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2 are contained in Attachments 1-4 to this letter. These changes have received On-Site and Off-Site review and approval.

This amendment request incorporates Limiting Conditions for Operation, Trip Level Setpoints, and Surveillance Requirements associated with the addition of degraded voltage relays. An additional surveillance of the existing undervoltage relays has also been added at the insistence of your staff to further ensure the operability of the undervoltage relay contacts. Because it is convenient at this time, the Dresden Station Units 2 and 3 Technical Specification Section 3.9/4.9 is also being rearranged to be in a more logical order.

The Degraded Voltage Relay "inherent time delay" has been specified as  $7 \pm 20\%$  seconds. The rationale for this setting is that (a) this setting will minimize unnecessary alarming during pump start voltage dips, and (b) the maximum allowable setpoint of 8.4 seconds will not alter the way emergency power is analyzed to respond to a degraded voltage condition during an ECCS signal because a Diesel Generator acceleration time of 10 seconds following the loss of off-site power is already assumed in the accident analyses.

In response to an informal NRC question, please note that Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2 presently have adequate protection for the inter-unit 4160V bus tie and intra-unit 480V bus tie --- Dresden buses 28(38) and 29(39) and Quad Cities buses 18(28) and 28(38) already have undervoltage alarms and relays.

Our current plans are to install the degraded voltage relays at Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2 in each unit's first refueling outage following receipt of the necessary equipment. At this time, we would anticipate beginning installation in the first refueling outage commencing in 1983 (Dresden Unit 2 January - March 1983 outage). The amendments proposed herein cannot be made effective until the equipment is installed. Commonwealth Edison will keep the NRC Dresden and Quad Cities Stations project managers informed of our installation status.

We have determined that these proposed changes constitutes two (2) Class I and two (2) Class III amendment requests. Accordingly, a fee remittance of \$8,800 is enclosed.

Please direct any questions you may have concerning this matter to this office.

Three (3) signed originals and fifty-seven (57) copies of this transmittal are provided for your use.

Very truly yours,



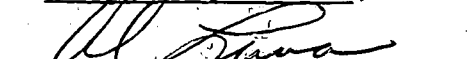
Thomas J. Rausch  
Nuclear Licensing Administrator  
Boiling Water Reactors

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Attachments

cc: Region III Inspector - Dresden  
Region III Inspector - Quad Cities

SUBSCRIBED and SWORN to  
before me this 4th day  
of March, 1982



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Notary Public