



**Commonwealth Edison**  
One First National Plaza, Chicago, Illinois  
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Chicago, Illinois 60690

August 22, 1985

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  
Auto-Transfer of Auxiliary  
Power Feeds  
NRC Docket Nos. 50-237 and 50-249

Reference: Telecon between M. S. Turbak, D. J. Scott,  
et. al., (CECo) and J. A. Zwolinski, et. al.,  
(NRR) on August 19, 1985

Dear Mr. Denton:

On August 16, 1985, Dresden Station Unit 2 experienced an event where a design deficiency in an auxiliary power automatic transfer circuit resulted in a failure to transfer two auxiliary power busses to the unit auxiliary transformer. Corrective actions to prevent recurrence of the event were discussed with Region III and NRR personnel on August 16 and on subsequent days. This letter documents commitments made by Commonwealth Edison during the referenced teleconference with members of your staff.

Dresden Station personnel conducted a prompt investigation of the event and have determined the cause of the auto-transfer circuitry failure. A modification was performed to correct the design deficiency. At this time, post-modification testing has been successfully completed. The modification and test procedure were reviewed and partially observed by Region III personnel.

At this time, preparations for startup of Unit 2 are in progress. As discussed in the referenced teleconference, we will retain the previous alignment of feeding the Unit 2 reserve auxiliary transformer from 138 kV bus section 3. This is the preferred alignment at this time from a grid reliability standpoint. Dresden Unit 1 transformer TR12, which initiated the August 16 event, is currently disconnected from bus section 3. Prior to reconnecting TR12, we will review the reliability of the available 138 kV bus sections to determine whether a particular bus section is preferred from a reliability standpoint. The results of this review will be discussed with Region III prior to reconnecting TR12. A copy will be provided for your review.

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As a result of the Dresden Unit 2 event, Commonwealth Edison has initiated a review of our electrical distribution system and related Technical Specifications for both Dresden units to assess compliance with 10 CFR 50, Appendix A, General Design Criteria 17. As an interim measure while this review is in progress and until modifications are complete on Unit 3, Commonwealth Edison will take the following actions to assure availability of adequate AC power supply:


1. An alternate supply of off-site and/or diesel generator AC power is provided by a 4 kV cross-tie between Dresden Units 2 and 3. This cross-tie will be maintained operable to the extent practical and we will inform NRC Region III if it becomes inoperable for any reason.
2. Another potential source of off-site AC power is available by means of back-feeding through the main transformer on each unit. Activating this contingency involves the removal of the disconnect links on the main generator. We will review a procedure used at LaSalle Station to set up this alignment and pre-plan to the extent practical, the steps necessary to utilize this alternate line-up. This will include determining the location and availability of the necessary equipment and personnel to remove the disconnect links.

The above items apply to both Dresden Units 2 and 3 and will provide added assurance that AC power will be available as needed.

If you desire further information on this matter, please contact this office.

One signed original and forty (40) copies of this transmittal are provided for your use.

Very truly yours,

  
for D. L. Farrar  
Director of Nuclear Licensing

lm

cc: R. Gilbert - NRR  
J. Streeter - Region III  
Dresden Resident Inspector