



**Commonwealth Edison**

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Chicago, Illinois 60690

May 29, 1985

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

Subject: Quad Cities Station Unit 2  
Supplemental Information on  
Use of GE Advanced Control  
Blades  
NRC Docket No. 50-265

References (a): B. Rybak letter to H. R. Denton  
dated October 2, 1984.

(b): GE NEDE 22290 - Safety Evaluation  
of the GE Hybrid I Control Rod  
Assembly.

Dear Mr. Denton:

As noted in Reference (a), it is Commonwealth Edison's intent to install control rod blades using hafnium in upcoming outages for its Dresden and Quad Cities units. Members of your staff required specific information as to the number and type of control rod blades to be installed at Quad Cities Unit 2 during its current refueling outage. The purpose of this letter is to provide that information.

The control rod blades to be used are what GE calls their Advanced Longer Life Control Rod design (ALLCR). This design is an extension of the Hybrid I Control Rod design (HICR) previously approved by the NRC. The significant differences between the HICR and ALLCR designs are:

- A 6 inch long hafnium absorber plate is added to the top of each blade wing.
- A new lightweight velocity limiter is incorporated to offset the slightly higher weight of the hafnium absorber plates.

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H. R. Denton

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General Electric has provided detailed information on the ALLCR design in Supplement 2 to NEDE 22290 (reference (b)). Specific information on the lattice design for plants such as Quad Cities Unit 2 is contained in Section 2.1 as well as other sections of that supplement.

If you have any further questions regarding this matter, please contact this office.

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

Very truly yours,



B. Rybak  
Nuclear Licensing Administrator

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cc: R. Bevan - NRR  
NRC Resident Inspector - Quad Cities  
G. N. Wright - State of IL

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