



Commonwealth Edison

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

April 15, 1983

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

Subject: Quad Cities Station Units 1 and 2
Resolution of NUREG-0612 "Control
of Heavy Loads at Nuclear Power
Plants"
NRC Docket Nos. 50-254 and 50-265

- References (a): V. Stello letter to All Licensees
dated May 17, 1978.
- (b): E. D. Swartz letter to D. G.
Eisenhut dated June 22, 1981.
- (c): E. D. Swartz letter to D. G.
Eisenhut dated December 11, 1981.
- (d): E. D. Swartz letter to D. G.
Eisenhut dated May 17, 1982.
- (e): Franklin Research Center TER (Draft)
dated December 7, 1982.

Dear Mr. Denton:

We have reviewed a draft TER (Reference (e)) and received comments from you staff and its consultants during a telecon held on March 11, 1983 with the aim to resolve the remaining three (3) issues at Quad Cities for the control of heavy loads. Our response is in the form of an attachment to this letter.

Our position on these three issues were reviewed at the forementioned meeting and it is our belief this response adequately resolves these concerns.

To the best of my knowledge and belief the statements contained herein and in the attachment are true and correct. In some respects these statements are not based on my personal knowledge but upon information furnished by other Commonwealth Edison employees and Consultants. Such information has been reviewed in accordance with Company practice and I believe it to be reliable.

A033

H. R. Denton

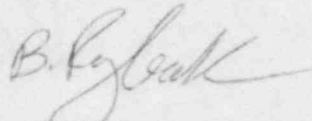
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Please direct any questions you may have concerning this matter to this office.

One (1) signed original and forty (40) copies of this letter with the attachment are provided for your use.

Very truly yours,



B. Rybak
Nuclear Licensing Administrator

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Attachment

cc: NRC Resident Inspector - Quad Cities
R. Bevan - NRR

6379N

ATTACHMENT

1.a FRC Recommendation/Open Item

To ensure that loads are safely handled at Quad Cities Station, Commonwealth Edison (CWE) should verify that suitable visual aids are available to assist crane operators when moving heavy loads.

1.a Response

Crane operators at Quad Cities Station will move heavy loads as defined by NUREG-0612 under the direction of an appropriate signalman. Quad Cities Station is presently writing an administrative procedure to describe the job responsibility of the person directing the heavy load movement. Further more, the existing maintenance and fuel handling procedures are being revised to reflect this administrative procedure.

2.a FRC Recommendations/Open Item

CWE should determine if or verify that stress design factor used in the design of the Quad Cities Station Dryer/Separator lifting rig are in compliance with ANSI N14.6-1978, Section 3.2.

2.a Response

- a. The Dryer/Separator lifting rig is stored in a clean, dry area and are inspected for evidence of physical abuse, damage, or defects prior to each use.
- b. The calculated value of the ratio of ultimate strength to rated load is above 5 for all components except for the weld of the lug to the W6x25 beam which is 4.5. The calculated value of the ratio of yield over the rated load is above 3 for all components except for the weld of the lug to the W6x25 beam which is 2.17 and the weld of the lug to the hook box which is 2.6.
- c. As stated in our June 22, 1981 Heavy Load Movement Report, the special lifting devices are designed according to industrial standards using good engineering practices.
- d. As stated in our June 22, 1981 Heavy Load Movement Report, the Dryer/Separator lifting rig was load tested to 200%, which is in accordance with the proof-load test indicated on the vendor drawings.

3.a FRC Recommendation/Open Item

CWE should implement precautions for the Quad Cities Station Unit 1 turbine building crane auxiliary hoist to accommodate or mitigate the dynamic loads imposed by this hoist. Possible alternatives may include one of the following options: (1) modify the hoist controls or drive train to reduce the maximum speed attainable (to a speed less than 30 feet per minute (fpm); (2) restrict operational use of this hoist so that it is prohibited from lifting any heavy loads within the scope of NUREG-0612; or (3) use specially marked slings which accommodate the dynamic loads imposed by this hoist.

3.a Response

Commonwealth Edison is presently revising the procedure for this crane to incorporate a limitation on the selection of slings. A safety factor of "2" will be used on the selection of slings to accommodate for the dynamic load of this hoist. For example: If a 2000 lb load is to be lifted, the sling selected will be for a 4000 lb load (Original load x 2).