

Docket No.: STN 50-454

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

Subject: Byron 1 - Environmental Effects of High Energy Line Breaks

Your letter of May 17, 1985, provides justification for continued operation of Byron 1 in light of revised predicted environmental parameters resulting from certain high energy line breaks. High energy line breaks in the Steam Generator Blowdown System and the Auxiliary Steam System have been found to have a potentially greater effect on environmental conditions than originally predicted.

Permanent modifications to automatically isolate the break, and keep environmental conditions within the predicted range, will be completed by August 31, 1985. Until then, you have committed to post personnel at locations so that breaks could be promptly detected and terminated manually before environmental conditions have exceeded predicted values. We understand that you may install temporary temperature detectors in strategic locations to eliminate the need to post personnel at similar locations.

We conclude that the interim measures, either posting personnel or using temperature detectors, are adequate to detect and isolate the breaks before the environmental conditions exceed predicted values. These interim measures are adequate until August 31, 1985, when the permanent modifications will be completed.

Provide the details of the permanent modifications as soon as they are available.

Sincerely,

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

cc: See next page

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BYRON

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