



**Commonwealth Edison**

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

July 20, 1979

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

Subject: Byron Station Units 1 and 2 and  
Braidwood Station Units 1 and 2  
Amendment No. 21, FSAR Amendment,  
to the Application for Construction  
Permits and Operating Licenses  
NRC Docket Nos. 50-454, 50-455, 50-456  
and 50-457

- References (a): May 15, 1979 letter from S. A. Varga to  
Cordell Reed transmitting a portion of  
first round questions on Byron and  
Braidwood OL application.
- (b): June 1, 1979 letter from S. A. Varga to  
Cordell Reed transmitting additional  
first round questions on Byron and  
Braidwood OL application.

Dear Mr. Denton:

The application for construction permits and operating licenses for Byron Station Units 1 and 2 and Braidwood Station Units 1 and 2, docketed September 20, 1973 in NRC Docket Nos. 50-454, 50-455, 50-456 and 50-457, are hereby amended by submittal of Amendment No. 21 pursuant to Section 50.34 of 10 CFR 50. In addition to voluntary text and response revisions, this amendment contains Commonwealth Edison Company responses to a portion of the First Round Questions generated by the Staff in Reference (a).

More specifically, this amendment includes responses to the questions transmitted in Reference (a) by the following NRC Branches:

7907230158

2092 005

Mr. Harold R. Denton:

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- 1) Auxiliary Systems Branch (005) - Complete response to all three (3) questions are included herein.
- 2) Power Systems Branch - Electrical Area (040) - Of the forty (40) questions transmitted, thirty-seven (37) are included herein. Responses to Questions 040.44, 040.63 and 040.73 will be included in the next amendment.
- 3) Effluent Treatment Systems Branch (321) - Of the eight (8) questions transmitted, seven (7) are included herein. Response to Question 321.9 will be included in the next amendment.
- 4) Hydrology - Meteorology Branch (hydrology - 371) - Complete responses to all four (4) questions on Byron and all three (3) questions on Braidwood are included herein.

Also included in this amendment is a completely revised Chapter 16 which has been reorganized to conform to the Standard Technical Specification format.

Responses to the questions of the remaining four (4) NRC Branches contained in Reference (a) and those of the two (2) Branches transmitted in Reference (b) will be included in the next FSAR amendment which is currently scheduled to be submitted in late August or early September 1979.

Three (3) signed originals and fifty-seven (57) copies of this amendment are submitted for your review and approval.

Very truly yours,

*C. Reed*

Cordell Reed  
Assistant Vice-President

attachments

SUBSCRIBED and SWORN to  
before me this 20<sup>th</sup> day  
of July 1979.

*Nancy M. Kowczko*  
Notary Public

2092 006