



**Commonwealth Edison**

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

November 30, 1978

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

Subject: Byron Station Units 1 and 2 and  
Braidwood Station Units 1 and 2  
Amendment No. 17, Final Safety  
Analysis Report, to the Application  
for Construction Permits and  
Operating Licenses  
NRC Docket Nos. 50-454, 50-455, 50-456  
and 50-457

Reference (a): October 20, 1978 letter from Roger S.  
Boyd to Cordell Reed titled "Results  
of Byron and Braidwood Acceptance  
Review."

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. 17 pursuant to Section 50.34 of 10 CFR 50. Said amendment consists of the Byron and Braidwood Stations Final Safety Analysis Report including the proposed technical specifications.

The Final Safety Analysis Report (FSAR) analyzes the design of each unit for operation at the ultimate power level currently contemplated, 3425 MWT, or the equivalent net electrical output of 1120 MWe.

Accordingly, it is requested that the design of Byron Units 1 and 2 and Braidwood Units 1 and 2 be reviewed for operation at power levels up to 3425 MWT and that the facility licenses be issued authorizing operation of each unit at this power level subject to the conduct of such tests and demonstrations and the submission of such future reports as the NRC may deem appropriate.

7812040 20(

LOJ 4  
SE  
15/15

KRC Docket Nos. 50-454  
50-455  
50-456  
50-457

Mr. Harold R. Denton:

- 2 -

November 30, 1978

Every effort has been made to format the FSAR in accordance with Regulatory Guide 1.70, Revision 2, in order to facilitate your review. However, at this time, the FSAR does not contain the additional information requested in Enclosure 2 of Reference (a). This information will be provided in a subsequent amendment by January 31, 1979. Also, included under separate cover are the oversize drawings indicated in Section 1.7 of the FSAR.

The Operating License Stage Byron and Braidwood Environmental Report required by 10 CFR 51 is being submitted under separate cover.

In accordance with the NRC letter of October 20, 1978, Reference (a), and 10 CFR 50.30, Commonwealth Edison has included three (3) signed originals transmitting fifteen (15) copies of the general information of 10 CFR 50.33 and 50.37 and forty (40) copies of the Final Safety Analysis Report. In addition, ten (10) copies of the general information and thirty (30) copies of the Final Safety Analysis Report will be retained and distributed in accordance with the instructions contained in Reference (a).

An affidavit confirming distribution in accordance with Enclosure 1 of Reference (a) will be provided within ten (10) days after receipt of an acknowledgement that the enclosed information has been docketed.

\* FSAR CONTROLLED & Very truly yours,

DISTRIBUTED

SEPARATELY

C. Reed

Cordell Reed  
Assistant Vice-President

attachments

SUBSCRIBED and SWORN to  
before me this 30th day  
of November, 1978.

Nancy M. Dascenzo  
Notary Public