



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

May 14, 1982

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

Subject: Byron Station Units 1 and 2
Braidwood Station Units 1 and 2
Auxiliary Feedwater System
Reliability
NRC Docket Nos. 50-454, 50-455,
50-456 and 50-457

- References (a): September 18, 1981, letter from
T. R. Tramm to H. R. Denton.
- (b): October 27, 1981, letter from
T. R. Tramm to H. R. Denton.
- (c): October 30, 1981, letter from
D. G. Eisenhut to L. DelGeorge
- (d): November 10, 1981, letter from
T. R. Tramm to H. R. Denton.
- (e): December 15, 1981, letter from
T. R. Tramm to H. R. Denton.
- (f): January 7, 1982, letter from
T. R. Tramm to H. R. Denton.

Dear Mr. Denton:

This is to provide additional information regarding the
reliability of the Byron/Braidwood Auxiliary Feedwater System (AFWS).

Enclosed is the final report of the reliability analysis
for the Byron/Braidwood auxiliary feedwater systems. This report
contains the supporting details for the reliability estimate
reported in reference (f) and referenced in the Byron SER. It
replaces the analyses discussed in references (a), (b), (d) and (e). BOO!
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The analysis reported here includes changes in assumptions
for the Loss of Offsite Power (LOOP) initiating event and the
addition of a fault tree path to evaluate a "failure to supply bus
141 from bus 241". Those were the final changes requested by the
NRC Staff in their review of the original analysis. An AFWS
unavailability per demand of 9.2×10^{-5} has been demonstrated for
the LOOP event. We understand that with these changes our analysis
is acceptable according to the guidance contained in NUREG-0800.

H. R. Denton

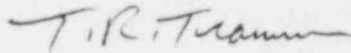
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The results of this analysis will be incorporated into the FSAR at the earliest opportunity. Please address questions regarding this matter to this office.

One signed original and fifteen copies of this letter are provided for your use. Fifteen copies of the report are also enclosed.

Very truly yours,



T. R. Tramm
Nuclear Licensing Administrator

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Enclosure: "Byron Units 1 & 2, Braidwood Units 1 & 2
Auxiliary Feedwater System Reliability
Analysis; Final Report" - Revision 1,
April, 1982, Torrey Pines Technology,
GA-Cl6444

cc: I. Papazoglou, Brookhaven Nat'l Laboratory

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