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May 12, 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
Testing of P-4 Interlock
NRC Docket Nos. 50-454, 50-455,
50-456 and 50-457

Reference (a): January 26, 1982, letter from
T. R. Tramm to H. R. Denton.

Dear Mr. Denton:

This is to provide information regarding the testing of P-4 interlocks in the Reactor Protection Systems at Byron and Braidwood Stations. Prompt review of this information should close out Confirmatory Issue 24 of the Byron SER.

In a meeting with the NRC Staff on November 12 and 13, 1981, we agreed to install test jacks to facilitate the routine testing of the P-4 interlocks. This commitment was documented in notes of that meeting which were transmitted in reference (a).

Upon further review we have decided to permanently install voltmeters which can be switched into the circuit to check the interlock inputs. These additional components will be safety-related and will eliminate the need for temporary connection of portable testing equipment. Attachment A to this letter contains details of the revised circuit.

This information will be incorporated into the Byron/Braidwood FSAR in a revised response to question 031.21.

Please address further questions regarding this matter to this office. One signed original and fifteen copies of this letter and the attachment are provided for your review and approval.

Very truly yours,

T. R. Tramm

T. R. Tramm
Nuclear Licensing Administrator

Boo!
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Attachment

4102N

During normal plant operation it is required to periodically on line test (manually) the "P4" interlock which is developed from the reactor trip breaker position inputs. To provide this test feature, the circuit below has been developed.

The test circuit, as shown, monitors the actual contacts from each trip breaker and bypass breaker independently through a qualified double throw (with off) double pole momentary (spring return) action rotary switch which then is in series with a voltmeter.

RTS CABINET 2 (TRAIN A)

