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August 26, 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
Post-Accident Sampling
NRC Docket Nos. 50-454, 50-455,
50-456, and 50-457

Dear Mr. Denton:

This is to provide advance FSAR information regarding the Byron/Braidwood post accident sampling system. NRC review of this information should make it unnecessary to impose License Condition 11 contemplated in the Byron SER.

Enclosed with this letter are additions to items 1 and 9 of the response to FSAR question 281.7. Analytical methods to be used under accident conditions are specified and personnel training is discussed. This information will be incorporated into the Byron/Braidwood FSAR at the earliest opportunity.

Please address further questions regarding this matter to this office.

One signed original and fifteen copies of this letter are provided for your review.

Very truly yours,

T. R. Tramm
Nuclear Licensing Administrator

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Enclosure

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ENCLOSURE

Additional information for B/B FSAR Question 281.7, Items 1 and 9

Item 1: "Demonstrate compliance with all requirements of NUREG-0737, II.B.3, for sampling, chemical and radionuclide analysis capability, under accident conditions."

Byron Station High Radiation Sampling System Analyses Capabilities include the following items.

<u>Analyses</u>	<u>Instrumentation/Type</u>	<u>Location</u>
Chloride	Ion Chromatograph (In-line)	Primary Sample Room
Dissolved Hydrogen	Gas Chromatograph (In-Line)	Primary Sample Room
Dissolved Oxygen	Probe (In-line)	Primary Sample Room
pH	Probe (In-line)	Primary Sample Room
Conductivity	Probe (In-line)	Primary Sample Room
Boron	Titration (Grab Sample)	High Level Laboratory

Item 9: "Provide information on (a) testing frequency and type of testing to ensure long term operability of the post accident sampling system and (b) operator training requirements for post accident sampling."

The Byron Station Post-Accident Sampling System is the same system that will be used for routine sampling during normal operations of the plant by the Radiation Chemistry Department. Based on this, minimal periodic training and testing will be required to maintain personnel competence and operability of the system. The following testing and training frequencies will be maintained.

- A. Testing frequency of the Post-Accident Sampling System will be at a minimum of yearly. All analysis functions for chloride, dissolved hydrogen, dissolved oxygen, pH, conductivity and boron will be verified.
- B. Formal initial training will be given to all personnel responsible for operation of the Post-Accident Sampling System. Retraining will be given as necessary to maintain competence (minimum yearly).