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November 2, 1984

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
Amendment 5 to Fire Protection Report
NRC Docket Nos. 50-454/435 & 50-456/457

- References (a): August 16, 1982 letter from T. R. Tramm
to H. R. Denton.
- (b): August 20, 1984 letter from T. R. Tramm
to H. R. Denton.
- (c): October 11, 1984 letter from T. R. Tramm
to H. R. Denton.

Dear Mr. Denton:

This letter provides Amendment 5 to the Byron/Braidwood Fire Protection Report (FPR) which was submitted in reference (a). References (b) and (c) provided advance copies of FPR revisions which are included in this amendment. Attachment A to this letter provides an itemized summary of the changes included with this amendment. This attachment is being provided at the request of the NRC Staff as an aid to the identification of FPR changes requiring further evaluation by the Staff.

One signed original and forty copies of this letter, the attachment and Amendment 5 are being provided for your use.

Very truly yours,

T. R. Tramm

T. R. Tramm
Nuclear Licensing Administrator

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Attachment

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ATTACHMENT A

SUMMARY OF CHANGES CONTAINED IN

B/B FPR AMENDMENT 5

<u>Page Numbers</u>	<u>Description</u>
2.4-22	A clarification regarding the fuel supply to the diesel-driven AFW pump day tank is added to Subsection 2.4.2.30. Also, a clarification regarding alternate shutdown capability following fire damage to both centrifugal charging pumps lube oil pumps is added to Subsection 2.4.2.33. These changes were requested by the Auxiliary Systems Branch.
2.4-23	The change to Subsection 2.4.2.33 discussed above continues on this page.
2.4-24	Subsection 2.4.2.37 was revised to add a more detailed explanation regarding the effect on safe shutdown capability of fire damage to the main steam atmospheric relief valves and the component cooling pumps. These changes were requested by the Auxiliary Systems Branch. Also, the term "hot shutdown" was replaced by the term "hot standby" in three places on this page. Hot standby, as defined in the Technical Specifications, is the safe "hot shutdown" condition for Westinghouse PWR's.
2.4-26	Correction of typographical error.
2.4-27	The discussion of isolation of controls and instruments between the control room and the remote shutdown panels is revised to correctly state that instruments are isolated so that a fire in one zone will not affect instruments in the other. Only controls would be affected.
2.4-29	The commitment to provide an interim fire watch in Fire Zone 11.5-0 is deleted. Credit is taken for utilizing reactor vessel level instrumentation in place of RC hot leg temperature and incore thermocouples, and supporting information is provided.

Page Numbers

Description

2.4-31	The commitment to provide an interim fire watch in Fire Zone 11.6-0 is deleted. Credit is taken for utilizing reactor vessel level instrumentation in place of RC hot leg temperature and incore thermocouples, and supporting information is provided.
2.4-33	The refueling water storage tank level instruments are deleted from the safe shutdown analysis.
2.4-53	Non-safety-related switchgear 143 is deleted from the safe shutdown support systems equipment list.
2.4-54	Non-safety-related switchgear 144 is deleted from the safe shutdown support systems equipment list.
2.4-55	The component description for equipment number 1AP92E is corrected.
2.4-70	The refueling water storage tank level instruments are deleted from the safe shutdown analysis.
2.4-75, 75a and 76	Table 2.4-6 is updated. This update was inadvertently omitted from FPR Amendment 3.
3.7-3	The commitment to include SCRA units inside containment is deleted. Such units would become contaminated and would not be usable.
3-5 thru 3-18, 3-20, 3-22 thru 3-29, 3-31 thru 3-38, 3-40, 3-42 thru 3-45, 3-47 and 3-48	The status and schedule for resolving NFPA code deviations are revised to reflect the current status.
Appendix 5.1	The resume of Thomas J. Kramer, fire protection consultant during the preparation of the Fire Hazards Analysis, is deleted. Resumes of three fire protection engineers currently employed by CECO, all of whom have some responsibility for the Byron/Braidwood fire protection program, are added. This change is made in response to an NRC request.

<u>Page Number</u>	<u>Description</u>
A5.2-3	The manual CO ₂ backup capability for the lower cable spreading rooms is added to the list of suppression systems provided.
A5.4-8 and 9	The description of the Halon 1301 systems is revised to reflect recent design changes to the system.
A5.4-11 and 12	The description of the Cardox CO ₂ system is revised to reflect recent design changes to the system.
A5.8.16-1	Correction of typographical error.
A5.8.18-1	The "Justification for Deviation" is revised to more clearly explain the need for the modification described. This clarification is made at the NRC Staff request.
A5.8.28-2	At the Staff's request, the "Justification for Deviation" is expanded to include a more detailed explanation.
A5.8.29-1, A5.8.30-1, A5.8.31-1, and A5.8.32-1	The term "hot shutdown" is replaced by the more technically correct term "hot standby".
A5.8.33-1	At the Staff's request, the "Justification for Deviation" is expanded to include a more detailed explanation and to incorporate a revised commitment for installation of the modification.
A5.8.34-1 and 2	The deviation has been revised to also include the incore thermocouples, and expanded "Description of Deviation" and "Justification for Deviation" sections are provided. A revised commitment for installation of the modification is also included at the Staff's request.
A5.8.35-1	Recently identified Deviation A.28 is included in this Appendix.

Instructions for Updating

Changes to the Byron/Braidwood Fire Protection Report are identified by the amendment number and date and by a vertical line in the right margin of the page. To update your copy of the Byron/Braidwood Fire Protection Report, remove and destroy the following pages and figures and insert pages and figures as indicated.

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Pages 2.4-75, 2.4-75a, and
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Chapter 5.0

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and Page A5.1-1
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