



December 3, 1997

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Supplemental Information Pertaining to Byron & Braidwood's Reactor
Vessel Integrated Surveillance Program

Byron Nuclear Power Station
Braidwood Nuclear Power Stations
NRC Docket Numbers: 50-454, 50-455, 50-456 and 50-457

References: 1.J. Hosmer letter to NRC dated May 6, 1997, transmitting Byron &
Braidwood Reactor Vessel Integrated Surveillance Program, 10 CFR 50
Appendix H Section III.C.

2.J. Hosmer letter to the NRC dated November 18, 1997, transmitting
Supplement to the Technical Specification Amendment Request

Reference 1 transmitted the Commonwealth Edison Company's (ComEd's) request to integrate the weld metal surveillance program of Byron Unit 1 and Unit 2, and Braidwood Unit 1 and Unit 2. WCAP-14824, Revision 1, "Byron Unit 1 Heat Up and Cool Down Limit Curves for Normal Operations and Surveillance Weld Metal Integration for Byron & Braidwood" was included in that correspondence. Subsequent to that submittal, ComEd and the Staff have had several conversations regarding this WCAP. Accordingly, ComEd has revised WCAP-14824 to address these comments. Revision 2 contains:

- All newly available data based on the June 30, 1997, FTI letter INS-97-2526 (referenced in NDIT BYR97-346, Rev. 0). This data has been incorporated into the weld metal best-estimate chemistry values. The new data had no adverse impact.
- Irradiation environment analysis. This analysis has been expanded using the October 14, 1996, Zion submittal Item 11 as a guide.

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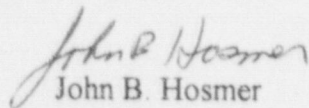
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- Additional information on presence and location of neutron pads, their impact on neutron transport calculation methodology, and dosimetry location.
- Clarification and additional justification of the ComEd commitment to revise fluence estimates using ENDF/B-VI neutron cross-section libraries at the next scheduled capsule withdrawal.
- Detailed explanation of the ComEd approach to Regulatory Guide 1.99, Revision 2 margin term and ratio procedure.
- Corrected approach to surveillance data credibility evaluation with detailed explanation.

Attached is WCAP-14824, Rev. 2 and its associated errata (Westinghouse Letter CAE-97-220/ CCE-97-304) for your review. Additionally, Reference 2 transmitted a supplement to amend the Technical Specifications regarding the Reactor Coolant System Pressure and Temperature Limits, which references the attached WCAP. Please note that the attached errata should be included when reviewing this WCAP. ComEd would appreciate your prompt review of the attached WCAP to avoid delays in the restart of Byron Unit 1 for the current Steam Generator replacement outage.

Please address any comments to this office.

Sincerely,



John B. Hosmer
Engineering Vice President

cc: Byron/Braidwood Project Manager - NRR
Senior Resident Inspector - Byron
Senior Resident Inspector - Braidwood
Regional Administrator - RIII
Office of Nuclear Safety - IDNS



CAE-97-220
CCE-97-304

Westinghouse
Electric Corporation

Energy Systems

Box 304
Pittsburgh, Pennsylvania 15230-0304

November 26, 1997

Mr. Brad Adams
ComEd
Byron Nuclear Station
4450 North German Church Road
Byron, IL 61010

ComEd
Byron Unit 1
Clarification in WCAP-14824, Rev. 2

Reference: G.O. WM70540, Customer Order 114771 YY67

Dear Mr. Adams:

The following clarifications of WCAP-14824, Rev. 2 are provided per discussions with Mr. Tom Spry of ComEd.

- On page C-5 on Appendix C, third sentence under the "Note" should read, "Braidwood 1 capsule X was withdrawn at the end of cycle 4 and Braidwood 2 capsule X was withdrawn near the end of cycle 4."
- On page C-5 on Appendix C, last paragraph; the third sentence should read Table A-2 not

Please insert this letter into your copies of WCAP-14824 Rev. 2 (copies transmitted per Westinghouse letter CAE-97-218/CCE-97-302 to Messrs. Adams, Gorski and Spry of ComEd). If you have any questions or need additional information, please contact me or Mr. Tom I on (412) 374-6788.

Very truly yours,

WESTINGHOUSE ELECTRIC CORP.

Janet M. Buneck
C. S. Hauser, Project Manager
ComEd Project
Nuclear Services

cc: P. M. McHale
D. B. Woznick - Byron
J. R. Meister - Braidwood
T. Spry - Downers Grove
M. Gorski - Braidwood