



January 17, 1996

United States Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Attention: Document Control Desk

Subject: Additional Information Regarding Commonwealth Edison Company's BWR Response to Generic Letter 92-01, Revision 1, Supplement 1, Parts (2), (3), and (4) for Dresden Station Units 2 and 3 and Quad Cities Station Units 1 and 2.
NRC Docket Numbers: 50:237, 249, 254 and 265

- References:
- 1) November 17, 1995, Commonwealth Edison Company's Response to NRC Generic Letter 92-01, Revision 1, Supplement 1: "Reactor Vessel Structural Integrity"
 - 2) BWRVIP document "BWR Vessel and Internals Project, Bounding Assessment of BWR/2-6 Reactor Pressure Vessel Integrity Issues (BWRVIP-08)," EPRI Report TR-105908, November 1995

Reference 1 transmitted the Commonwealth Edison Company's (ComEd) response to Generic Letter 92-01, Revision 1, Supplement 1, "Reactor Vessel Structural Integrity. In that response ComEd committed to provide the Nuclear Regulatory Commission (NRC) electroslag weld initial reference temperature-nil ductility transition (IRTNDT), upper shelf energy (USE), and chemistry properties of the electroslag welds, for Dresden Units 2 and 3 and Quad Cities Units 1 and 2.

Attached are:

Attachment 1: BAW-2258, "Evaluation of RT_{NDT} , USE, and Chemical Composition of Core Region Electroslag Welds for Dresden Units 2 and 3," January 1996, and

Attachment 2: BAW-2259, "Evaluation of RT_{NDT} , USE, and Chemical Composition of Core Region Electroslag Welds for Quad Cities Units 1 and 2," January 1996.

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As discussed in Reference 1, for Dresden Units 2 and 3 and Quad Cities Units 1 and 2:

In the BWRVIP "Bounding Assessment of BWR/2-6 Reactor Pressure Vessel Integrity Issues" (Reference 2) evaluation of impact on P-T curves, a bounding approach to electroslag weld chemistry resulted in a negative impact on the Dresden Unit 3 16 EFPY P-T curves of 2.6°F and a negative impact on the Quad Cities Unit 2 16 EFPY P-T curves of 1.3°F. This impact was so minimal it is considered to be inconsequential. However, it was noted that Dresden Unit 3 was at 14.0 EFPY as of September 30, 1995, and Quad Cities Unit 2 was at 14.6 EFPY as of November 3, 1995, and for this reason there was no impact on near-term operation.

ComEd contracted with BWNT, Framatome Technologies, Inc. (now FTI) to perform an evaluation of all available weld properties data for electroslag welds produced by FTI. This included searches for documentation at Babcock & Wilcox facilities at Mt. Vernon, Indiana and Barberton, Ohio.

As a result of this evaluation, analyses of the available data found in the attached reports indicate that the best-estimate copper and nickel values for these electroslag welds are significantly lower than the bounding values utilized in the BWRVIP, "Bounding Assessment of BWR/2-6 Reactor Pressure Vessel Integrity Issues." The mean IRTNDT value based on the available data is also considerably lower than the bounding value used in previously docketed P-T limits. When the mean and standard deviation of the IRTNDT data and the best estimate chemistry data is taken into account in calculating adjusted reference temperature in accordance with Regulatory Guide 1.99 Revision 2, all previously submitted P-T limits remain valid.

Analysis of the available USE data found in the attached reports indicates that the Boiling Water Reactor Owners Group Topical Report on Upper Shelf Energy Equivalent Margin Analysis referred to in the BWRVIP "Bounding Assessment of BWR/2-6 Reactor Pressure Vessel Integrity Issues" (Reference 2) remains bounding for Dresden Units 2 and 3 and Quad Cities Units 1 and 2.

ComEd intends to utilize the best estimate values for electroslag weld chemistry and IRTNDT found in the attached reports when P-T limits are updated for Dresden Units 2 and 3 and Quad Cities Units 1 and 2.

If there are any questions, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Denise M. Saccomando". The signature is written in black ink and is positioned above the printed name.

Denise M. Saccomando
Senior Nuclear Licensing Administrator

Attachments

cc: John Stang, Dresden Project Manager - NRR
R. Pulsifer, Quad Cities Project Manager - NRR
C. Vanderniet, Senior Resident Inspector - Dresden
C. Miller, Senior Resident Inspector - Quad Cities
H. Miller, Regional Administrator - RIII
Office of Nuclear Safety - IDNS