

From: George Dick
To: INTERNET:joseph.bauer@exeloncorp.com
Date: Thu, Jan 25, 2001 7:56 AM
Subject: Appendix G & H Questions

Joe,

Please see attached questions regarding compliance with 10 CFR Appendixes G and H for the power uprate request for Byron and Braidwood.

George

CC: Chia-Fu Sheng, Mahesh Chawla

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Subject: Appendix G & H Questions
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QUESTIONS RELATING TO THE
REQUEST TO AMEND THE OPERATING LICENSE
FOR THE BYRON AND BRAIDWOOD, UNITS 1 AND 2:
POWER UPRATE REQUEST

**Questions Regarding Compliance with 10 CFR Part 50, Appendix G,
and 10 CFR Part 50, Appendix H**

1. The licensee's response provides actual data to support the revised higher USE values for certain RPV welds. However, the reference was simply stated as "Record of Filler Wire Qualification Test." Confirm that the "Record of Filler Wire Qualification Test" is just a different name for "Weld QTR" that was used in a previous submittal (ComEd letter of 11/19/93). Otherwise, the licensee needs to address differences, if any, in welding procedure and stress relief of the filler wire qualification test specimen and the actual RPV welds and assess their impact to the USE values. In addition, please address the staff comments in the following table to justify the use of the revised initial USE values proposed for the power uprate. The pages referenced in the "Staff Source" column refer to the 11/19/93 submittal.

Unit	Weld ID and Heat	USE (RVID)	Staff Source	Comment	USE (Uprate)
Byron 1	WF336 (442011)	74	Page 13	To abandon your previous conservative approach, you need to demonstrate that the USE of 78 ft-lb from "Weld QTR" were from three specimens. Otherwise, you need to use the average value of 78 and 74 reported on Page 13.	77
Byron 2	WF447 (442002)	67	Page 15	The document stated, "The source of the 80 ft-lb value is undetermined."	80
	WF562 (442011)	70	Page 15	The document cited WCAP-12685 for this information.	80
Braid-wood 1	WF562 (442011)	70	Page 10	To abandon your previous conservative approach, you need to demonstrate that the USE of 78 ft-lb from "Weld QTR" were from three specimens. Otherwise, you need to use the average value of 78, 70, and 71, reported on Page 10.	80
Braid-wood 2	WF562 (442011)	70	Page 10	Same as above	80

2.

The heatup curves are less conservative than those calculated by the staff by more than 10 F° at high pressure. An additional examination by the staff indicated that the heatup curve generated by P-T Calculator of EPRI agrees with the staff's values. To resolve this discrepancy, provide the detailed calculation for the heatup curve (100 F°/hour) at high pressure (say 1500 psi) for Byron Unit 1.