

May 4, 2007

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U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Byron Station, Unit 2
Facility Operating License No. NPF-66
NRC Docket No. 50-455

Subject: Pressurizer Weld Overlay Examination Results Related to Byron Station Relief Request I3R-08

- References:
- (1) Letter from D. M. Hoots (Exelon Generation Company, LLC) to U. S. NRC, "3rd 10-Year Inservice Inspection Interval, Relief Request I3R-08, Preventive Weld Overlays on Pressurizer Spray, Relief, Safety and Surge Nozzles and Associated Alternative Repair Techniques," dated April 28, 2006
 - (2) Letter from D. M. Hoots (Exelon Generation Company, LLC) to U. S. NRC, "Commitment Regarding Byron Station Relief Request I3R-08 for Byron Station Unit 2," dated September 14, 2006
 - (3) Letter from Russell A. Gibbs (U. S NRC) to C. M. Crane (Exelon Generation Company, LLC), "Byron Station, Unit No. 2 - Evaluation of Relief Request I3R-08 Pertaining to Structural Weld Overlays (TAC NO. MD1762)," dated March 19, 2007

The Reference 1 submittal proposed an alternative (i.e., Relief Request I3R-08), in accordance with 10 CFR 50.55a(a)(3)(i), to the repair/replacement requirements of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME Code), Section XI, 2001 Edition, through 2003 Addenda, IWA-4000, for the structural weld overlays on the Byron Station pressurizer spray, relief, safety and surge nozzle safe-ends.

Reference 3 documents a commitment made in Reference 2 to provide the details of the ultrasonic examination results of the structural weld overlays on the Byron Station Unit 2 pressurizer spray, relief, safety and surge nozzle safe-ends to the NRC within 14 days of the completion of the final ultrasonic examination.

In accordance with the Reference 3 commitment, Exelon Generation Company, LLC is providing the details of the ultrasonic examination (UT) results of the structural weld overlays on the Byron Station Unit 2 pressurizer spray, relief, safety and surge nozzles as an attachment to this letter. The final weld overlay UT conducted during the B2R13 outage was completed on April 20, 2007.

The attached Table 1, "Indications for B2R13 Pressurizer Weld Overlays (Pre-Weld Repairs)", provides detailed results of the initial UT inspections performed on the above listed pressurizer nozzles.

The following is a summary of the results.

Nozzle	Number of Indications	Indication Assessment Summary
Safety "A"	2 Laminar Indications	Both laminar indications were unacceptable due to associated assumed flaws. The assumed flaws associated with laminar indications were found to be acceptable per IWB-3640.
Safety "B"	1 Laminar Indication	The laminar indication was unacceptable due to associated assumed flaws. The assumed flaw associated with the laminar indication was found to be acceptable per IWB-3640.
Safety "C"	6 Laminar Indications	The laminar indications were unacceptable due to associated assumed flaws. The assumed flaws associated with laminar indications were found to be acceptable per IWB-3640.
PORV	1 Laminar Indication	The laminar indication was unacceptable due to associated assumed flaws. The assumed flaw associated with the laminar indication was found to be acceptable per IWB-3640.
SPRAY	No Recordable Indications	
SURGE	No Recordable Indications	

This submittal does not contain any regulatory commitments.

Should you have any questions concerning this letter, please contact William Grundmann at (815) 406-2800.

Respectfully,



David M. Hoots
Site Vice President
Byron Station

DMH/JEL/rah

Attachment: Table 1 – Indications for B2R13 Pressurizer Weld Overlays.