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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. STN 50-455

Subject: Correction to Relaxation Request to First Revised NRC Order EA-03-009,  
Dated February 20, 2004

- References:
- (1) Letter from David M. Hoots (Exelon Generation Company, LLC) to U. S. NRC, "Relaxation Request From First Revised NRC Order EA-03-009 Establishing Interim Inspection Requirements for Reactor Pressure Vessel Heads at Pressurized Water Reactors," dated August 30, 2007
  - (2) Letter from Russell Gibbs (U.S. NRC) to Charles Pardee (Exelon Generation Company, LLC), "Byron Station, Unit No. 2 - Relaxation of the First Revised Order EA-03-009 (TAC No. MD6638)," dated February 7, 2008

In Reference 1, Exelon Generation Company, LLC (EGC), requested relaxation from certain inspection requirements of the First Revised Order EA-03-009. Specifically, the proposed alternative would revise the minimum volumetric inspection coverage requirement for sixteen reactor pressure vessel (RPV) control rod drive mechanism (CRDM) penetration nozzles at Byron Station, Unit 2, to the lowest elevation that can be practically inspected. In Reference 2, the NRC authorized the proposed relaxation.

A101  
NRR

Due to the identification of an indication on CRDM nozzle 68 during the spring 2007 Byron Station Unit 2 refueling outage and the attribution of this indication to primary water stress corrosion cracking (PWSCC), the Byron RPV head was re-categorized as high susceptibility. For an RPV head in the high susceptibility category, the NRC Order EA-03-009 required that the CRDM RPV head penetration nozzles be inspected on an refueling outage frequency.

Recently, after review of the examination data, in preparation for submittal of Byron relief requests I3R-16 and I3R-17, an error was identified in the lower extent of coverage for CRDM nozzle 68. The original relaxation request used a value of 0.800 inches. Due to removal of the lower portion of the nozzle in Spring 2007 to facilitate repair of the nozzle through an embedded flaw technique and repair of the area that had a sample removed, the actual value is 0 inches.

At the time of Byron Station's Relaxation Request submittal, the original data provided by the examination vendor for completion of the CRDM nozzle volumetric examination and subsequent repair were used as the basis for determining coverage found on each of the CRDM nozzles, which was then used as the basis for the relaxation request. The tables did not reflect the actual removal of the lower portion of the nozzle, but when re-review of the actual examination data sheets was completed, the error was identified. This issue has been entered into the Corrective Action Program.

There was no adverse impact resulting from this error. The penetration nozzles for the Unit 2 RPV Head, including CRDM penetration nozzle 68, were inspected in the subsequent Unit 2 refueling outage in fall 2008 (i.e., B2R14).

There are no regulatory commitments contained in this letter. Should you have any questions or desire additional information regarding this letter, please contact David Gudger, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,

A handwritten signature in black ink, appearing to read "Daniel J. Enright". The signature is fluid and cursive, with the first name "Daniel" being the most prominent part.

Daniel J. Enright  
Site Vice President  
Byron Station

DJE/DG/cy