

2007-268 \_\_\_\_\_ BWR Vessel & Internals Project (BWRVIP)

September 13, 2007

Document Control Desk  
U. S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

Attention: John Honcharik

Subject: Project No. 704 – Supplemental Analyses Supporting BWRVIP-108

References: 1. Letter from William A. Eaton (BWRVIP Chairman) to Document Control Desk (NRC), "Project No. 704 – BWRVIP Response to NRC Request for Additional Information on BWRVIP-108," dated July 25, 2006.  
2. Letter from Carl Terry (BWRVIP Chairman) to Document Control Desk (NRC), "Project No. 704 – BWRVIP-108: BWR Vessel and Internals Project, Technical Basis for the Reduction of Inspection Requirements for the Boiling Water Reactor Nozzle-to-Vessel Shell Welds and Nozzle Blend Radii," dated November 25, 2002.

The purpose of this letter is to provide the NRC with the enclosed supplemental analyses supporting the position documented in the BWRVIP report entitled "BWRVIP-108: BWR Vessel and Internals Project, Technical Basis for the Reduction of Inspection Requirements for the Boiling Water Reactor Nozzle-to-Vessel Shell Welds and Nozzle Blend Radii," EPRI Technical Report 1003557, October 2002.

The BWRVIP responded to a NRC Request for Additional Information (RAI) on BWRVIP-108 by submitting the Reference 1 letter identified above. Subsequent to that submittal, the NRC informally relayed additional comments to the BWRVIP regarding the inputs and sensitivity analysis performed as part of the BWRVIP-108 probabilistic fracture mechanics (PFM) analysis. Discussions between the BWRVIP and NRC staff were held over the course of several months and resulted in a number of changes to the PFM inputs. Several analyses were performed to recompute the failure probabilities. The results of these additional analyses are provided in the enclosure to this letter.

The enclosed document contains proprietary information. Therefore, the request to withhold the BWRVIP-108 report from public disclosure that was transmitted to the NRC by the Reference 2 letter identified above also applies to the enclosed document.

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If you have any questions on this subject please Bob Geier (Exelon, BWRVIP Assessment Committee Technical Chairman) by telephone at 630.657.3830 or by e-mail at [robert.geier@exeloncorp.com](mailto:robert.geier@exeloncorp.com)

Sincerely,

A handwritten signature in black ink that reads "Rick Libra". The signature is written in a cursive, flowing style.

Rick Libra  
Exelon  
Chairman, BWR Vessel and Internals Project