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CALVERT CLIFFS  
NUCLEAR POWER PLANT

February 22, 2012

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit No. 2; Docket No. 50-318  
Transmittal of Unit 2 Reactor Vessel Surveillance Capsule Report

In accordance with 10 CFR Part 50, Appendix H IV.A, Calvert Cliffs hereby submits Westinghouse Report WCAP-17501-NP, "Analysis of Capsule 104° from the Calvert Cliffs Unit No. 2 Reactor Vessel Radiation Surveillance Program," Revision 0 (Attachment 1). This report presents the analysis of the test results from the Unit 2 104° capsule. The 104° capsule test results were used to evaluate reactor vessel material properties following 27.13 effective full power years of plant operation. Based on this analysis, properties of the reactor beltline materials are predicted to remain more than adequate for the continued safe operation of Unit 2 through the end of the renewed license period. There are no changes to the pressure temperature limits associated with the Technical Specifications or to the operating procedures required to meet the limits in this report.

Should you have questions regarding this matter, please contact Mr. Douglas E. Lauver at (410) 495-5219.

Very truly yours,

James J. Stanley  
Manager-Engineering Services

JJS/PSF/bjd

Attachment: (1) WCAP-17501-NP, Revision 0, Analysis of Capsule 104° from the Calvert Cliffs Unit No. 2 Reactor Vessel Radiation Surveillance Program

cc: **(Without Attachment)**  
D. V. Pickett, NRC  
W. M. Dean, NRC

Resident Inspector, NRC  
S. Gray, DNR

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NIRK