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March 22, 1993

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit No. 1; Docket No. 50-317
Reactor Vessel Surveillance Capsule Report - Request for Extension of
Submittal Date

Gentlemen:

Pursuant to 10 CFR Part 50, Appendix H, Section III.A, Baltimore Gas and Electric Company hereby requests an extension of the submittal date for the subject report from April 23, 1993, to June 23, 1993. The surveillance capsule, which was located at the 97⁰ position of the Unit 1 reactor vessel beltline region, was withdrawn on April 23, 1992. Appendix H requires the report to be submitted within one year after capsule withdrawal unless an extension is granted.

Baltimore Gas and Electric Company has contracted Asea Brown Boveri-Combustion Engineering (ABB-CE) and Babcock and Wilcox Company to perform the capsule analysis and generate the necessary report. A significant effort has been made to improve the capsule analysis methodology and has required considerably more time than we originally anticipated. Several of these improvements are listed below:

- ▶ The source distribution in the reactor fuel was derived from three dimensional diffusion theory depletion calculations. All ten cycles of Unit 1 history were redepleted via the ABB-CE ROCS/DIT/MC computer codes. Each cycle was distinctly modeled. In the previous capsule analyses, cycles were grouped by length and each group modeled separately;
- ▶ Detailed time-dependent power distributions were integrated to yield average cycle characteristics. Previously, middle of cycle power distributions simulated the integrated results;
- ▶ The geometry was researched in ABB-CE's archives and then rigorously modeled; and
- ▶ The first surveillance capsule withdrawn (the 263⁰ location capsule) was re-analyzed, and the results were utilized in the current capsule analysis.

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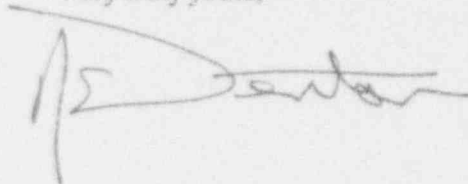
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Your consideration of this extension request is greatly appreciated. Should you have any questions, we will be pleased to discuss them with you.

Very truly yours,

A handwritten signature in dark ink, appearing to be "J. E. Silberg", written over a horizontal line.

RED/GT/gt/bjd/dlm

cc: D. A. Brune, Esquire
J. E. Silberg, Esquire
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