



CHARLES CENTER • P.O. BOX 1475 • BALTIMORE, MARYLAND 21203

ELECTRIC ENGINEERING  
DEPARTMENT

October 22, 1979

Mr. Boyce H. Grier, Director  
Office of Inspection and Enforcement  
Region 1, USNRC  
631 Park Avenue  
King of Prussia, PA. 19406

Dear Mr. Grier:

Subject: Calvert Cliffs Nuclear Power Plant  
Units No. 1 and 2.  
License Nos. DPR-53 and 69  
Nonroutine Radiological Environmental  
Operating Report.

This report is submitted, in duplicate, to comply with the requirements of Appendix B Environmental Technical Specifications Section 5.6.2.b.

The Oyster samples were collected on August 27, 1979 from the Camp Conoy sampling location and analyzed for gamma-emitting radionuclides as required. The results of the analyses showed the presence of Ag-110 at  $266 \pm 4\%$  pCi/Kg(wet). The oyster samples collected on the same date from the Kenwood Beach sampling location (the background location) showed Ag-110m at  $\leq 4$  pCi/Kg(wet). A review of the available effluent release data indicates that Ag-100 m in oysters is plant related.

Based on the observed levels of Ag-100m during August 1979, for an average adult consuming one kilogram of oysters per year the doses to the GI Tract and Whole Body are estimated at  $\sim 1.6 \times 10^{-2}$  mrem/year and  $\sim 2.3 \times 10^{-5}$  mrem/year, respectively. These are very small fractions of the allowable 25 mrem/year (GI Tract) and 25 mrem/year (Whole Body) doses to members of the general public, (40 CFR Part 190 Environmental Radiation Protection Standards for Nuclear Power Operations) and are considered to be of no consequence to the health and safety of the public.

Very truly yours,

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J. W. Stout, Jr.  
Chief Environmental Engineer

cc: Director, Office of Nuclear Reactor Regulation  
Washington, DC 20555 (17 copies)

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