



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

ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY



May 7, 1981

U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Docket Nos. 50-317  
50-318  
License Nos. DPR-53  
DPR-69

ATTENTION: Mr. B. H. Grier, Director

Gentlemen:

This refers to IE Bulletin 81-03, "Flow Blockage of Cooling Water to Safety System Components for CORBICULA SP. (Asiatic Clam) and MYTILUS SP. (Mussel)". The applicable items of this bulletin are addressed below.

ITEM 1

Neither Corbicula sp. or Mytilus sp. is found in the molluscan species lists in submerged substrate studies or benthic studies in the vicinity of Calvert Cliffs Nuclear Power Plant. These studies were conducted by the Academy of Natural Sciences of Philadelphia. The submerged substrate studies which are directly applicable to biofouling concerns were begun in 1968 and terminated in 1978. Since this study was for our own information and not required by the Environmental Technical Specifications, a ten-year data base was considered adequate. In addition, benthic studies conducted in 1977 and 1978 substantiated the biofouling species noted in the submerged substrate studies. Neither of these studies have ever shown Mytilus sp. or Corbicula sp. to be present. The estuarine salinity regime (8-15 o/oo) at Calvert Cliffs Nuclear Power Plant is inappropriate for these species, (e.g., too saline for Corbicula sp., which is essentially a fresh water organism, and too brackish for Mytilus sp., which requires a more saline regime).

ITEM 4

Our present practices require all component cooling and service water heat exchangers to be opened, inspected, and mechanically cleaned (including tube

8106080 039

May 7, 1981

bulleting) quarterly. Our experience has shown that this schedule supports optimum heat exchanger performance and minimizes tube degradation.

ITEM 5

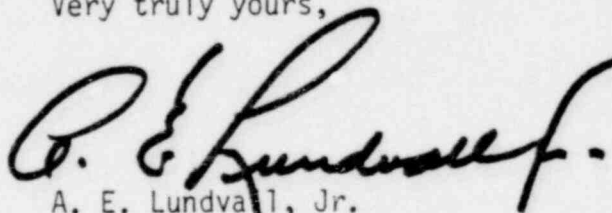
The studies have been terminated and were not part of the Environmental Technical Specifications. The following citations are for the most recent reports.

Abbe, George R. and William L. Yates, Jr. 1980 Submerged Substrate Studies on the Chesapeake Bay at Calvert Cliffs, Maryland, January-December 1978 for the Baltimore Gas and Electric Company. No. 80-15. Academy of Natural Sciences of Philadelphia, Philadelphia, Pennsylvania.

Loi, Tran-ngoc. 1979. 1978 Benthic Studies near the Calvert Cliffs Nuclear Power Plant of the Baltimore Gas and Electric Company No. 79-29. Academy of Natural Sciences of Philadelphia, Philadelphia, Pennsylvania.

Should you have further questions regarding this matter, we would be pleased to discuss them with you.

Very truly yours,

  
A. E. Lundvall, Jr.  
Vice President-Supply

AEL/RED/gla

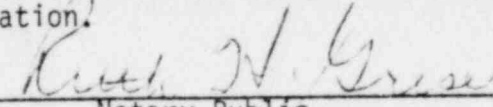
STATE OF MARYLAND:

: TO WIT:

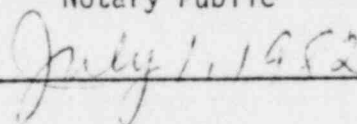
CITY OF BALTIMORE:

A. E. Lundvall, Jr., being duly sworn states that he is Vice President of the Baltimore Gas and Electric Company, a corporation of the State of Maryland; that he provides the foregoing response for the purposes therein set forth; that the statements are true and correct to the best of his knowledge, information, and belief; and that he was authorized to provide the response on behalf of said Corporation.

WITNESS my Hand and Notarial Seal

  
Notary Public

My Commission Expires:



Mr. B. H. Grier, Director

-3-

May 7, 1981

cc: J. A. Biddison, Esquire  
G. F. Trowbridge, Esquire  
Director, Office of Inspection & Enforcement  
R. E. Architzel, Resident Inspector (NRC)  
Dr. E. I. Bauereis