

*docket*



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

March 25, 1981

Docket No. 50-317  
50-318



Mr. A. E. Lundvall, Jr.  
Vice President - Supply  
Baltimore Gas & Electric Company  
P.O. Box 1475  
Baltimore, Maryland 21203

Dear Mr. Lundvall:

The Commission has issued the enclosed Amendment Nos. 49 and 33 to Facility Operating License Nos. DPR-53 and DPR-69 for Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2. These amendments consist of changes to the Technical Specifications in partial response to your request dated July 24, 1979 (Change No. 6) and January 29, 1981 (Change No. 3). Please note that Amendment No. 50 for Unit No. 1 was issued ahead of this amendment.

These amendments modify the Appendix B (Environmental) Technical Specifications to delete Sections 3.1 "Abiotic Nonradiological Surveillance", 4.1 "Thermal Plume Mapping" and 4.2 "Studies to Investigate Alternate Effluent Limitations" and parts of Section 3.1.2 "Biotic Nonradiological Surveillance" which contain monitoring programs for the protection of the aquatic environment. Some of these aquatic programs have been completed. The National Pollutant Discharge Elimination Systems (NPDES) Permit issued by the State of Maryland governs the protection of the aquatic environment.

The remainder of your request for changes dated July 24, 1979 was addressed in our letter of September 10, 1980 issuing Amendments No. 46 and 29 for Units No. 1 and 2, respectively. The other changes requested by your January 29, 1981 letter are still under review and will be addressed at a later time.

We have concluded that, since this is a ministerial action required as a matter of law, no environmental assessment need be prepared as a condition precedent to taking the action.

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The amendments do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

Sincerely,



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Enclosures:

1. Amendment No. 49 to DPR-53
2. Amendment No. 33 to DPR-69
3. Notice of Issuance

cc w/enclosures:  
See next page

Baltimore Gas and Electric Company

cc:

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Prince Frederick, MD 20768

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Director, Criteria and Standards Division  
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U. S. Environmental Protection Agency  
Washington, D. C. 20460

cc w/enclosure(s) and incoming  
dated: 6/24/81, 1/29/81

Administrator, Power Plant Siting Program  
Energy and Coastal Zone Administration  
Department of Natural Resources  
Tawes State Office Building  
Annapolis, MD 21204



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 49  
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendments by Baltimore Gas & Electric Company (the licensee) dated July 24, 1979 and January 29, 1981, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the applications, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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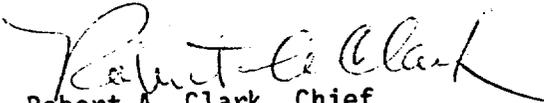
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-53 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 50\*, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the  
Technical Specifications

Date of Issuance: March 25, 1981

\* Note: Amendment No. 50 was inadvertently issued before this Amendment No. 49

ATTACHMENT TO LICENSE AMENDMENT NO. 49

FACILITY OPERATING LICENSE NO. DPR-53

DOCKET NO. 50-317

Remove or replace the following pages of the Appendix B Technical Specifications with the enclosed pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

Remove Page  
Table of Contents

3.1-1  
3.1-2  
3.1-3  
3.1-4  
3.1-5  
3.1-6  
3.1-7  
3.1-8  
3.1-9  
3.1-10  
4.1-1  
4.1-2  
4.1-3  
4.2-1

Insert Pages  
Table of Contents

3.1-1  
3.1-2  
3.1-3  
3.1-4  
3.1-5  
  
4.1-1

TABLE OF CONTENTS

<u>Section</u>	<u>Description</u>	<u>Page</u>
1.0	Definitions	1.0
2.0	Limiting Conditions for Operation	2.1-1
2.1	Thermal Limitation on Condenser Cooling Water Discharge	2.1-1
2.1.1	Maximum $\Delta T$ Across the Condenser	2.1-1
2.2	Chemical Limitations	2.2-1
2.2.1	Dissolved Solids and pH	2.2-1
2.3	Radioactive Effluents	2.3-1
3.0	Environmental Surveillance and Monitoring	3.1-1
3.1	Non-Radiological Surveillance	3.1-1
3.1.2	Biotic	3.1-1
3.1.2.a	General Aquatic Ecological Surveys	3.1-1
3.1.2.b	Impingement of Organisms	3.1-4
3.2	Radiological Environmental Monitoring	3.2-1
4.0	Special Surveillance and Study Activities	4.1-1
5.0	Administrative Controls	5.0
5.1	Responsibility	5.1-1
5.2	Organization	5.2-1
5.3	Review and Audit	5.3-1
5.4	Action to be Taken if a Limiting Condition for Operation is Exceeded	5.4-1
5.5	Operating Procedures	5.5-1
5.6	Plant Reporting Requirements	5.6-1
5.7	Records Retention	5.7-1

3.0 ENVIRONMENTAL SURVEILLANCE AND MONITORING

3.1 Non-Radiological Surveillance

3.1.1 Abiotic

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3.1.2 Biotic

3.1.2.a General Aquatic Ecological Surveys

Objective

The purpose of the general aquatic ecological surveys is to investigate and determine the effects, if any, of the plant circulating water discharge on (1) certain physical and chemical parameters indicative of aquatic ecological conditions in the vicinity of the plant and (2) the planktonic, nektonic, and benthic communities in the vicinity of the plant.

Specifications

3.1.2.a(1) Fish Surveys

Fish trawls shall be made once each calendar month at stations KB, PS, and RP. All fish collected will be separated according to species, counted and measured to the nearest 1/2 centimeter of total length. If more than 100 of any species are present, an estimate of total numbers shall be made and a random sample of 100 of that species shall be measured.

3.1.2.a(2) Crab Studies

Crab pots will be baited and fished during one week of each month from May to November at stations KB, PS, and RP. Each month sample means will be calculated for the number, size, and weight of males and females, separately.

3.1.2.a(3) Oyster Tray Studies

Trays containing various size losses of oysters shall be located at KB, RP, CP, and PS. The number of living and dead oysters in each tray and the

length and width of each oyster will be tabulated once each calendar quarter (March, June, September and December). Samples shall also be collected from the PS and KB trays for an analysis of copper concentration in the oyster meat.

#### Reporting Requirements

Results of these studies will be reported in the Annual Environmental Operating Report as described in Specification 5.6.1.a.

#### Basis

In 1968 a program of ecological surveys was begun to gather information regarding possible environmental effects of the Calvert Cliffs Nuclear Power Plant. In designing this program, sampling stations were selected so that areas influenced and areas not influenced by plant activities were represented. Over the years this program has been expanded and modified to reflect changing concerns and the experience gained in previous years. This program is still evolving in response to the above factors and to changing State and Federal regulatory requirements. The above specifications are considered to be the nucleus of these studies and are not expected to change. Data collected during these surveys shall be evaluated annually and recommendations made to modify or continue the program of studies. The approximate location of sampling stations is shown in Figure 3.1.2.a.-1.

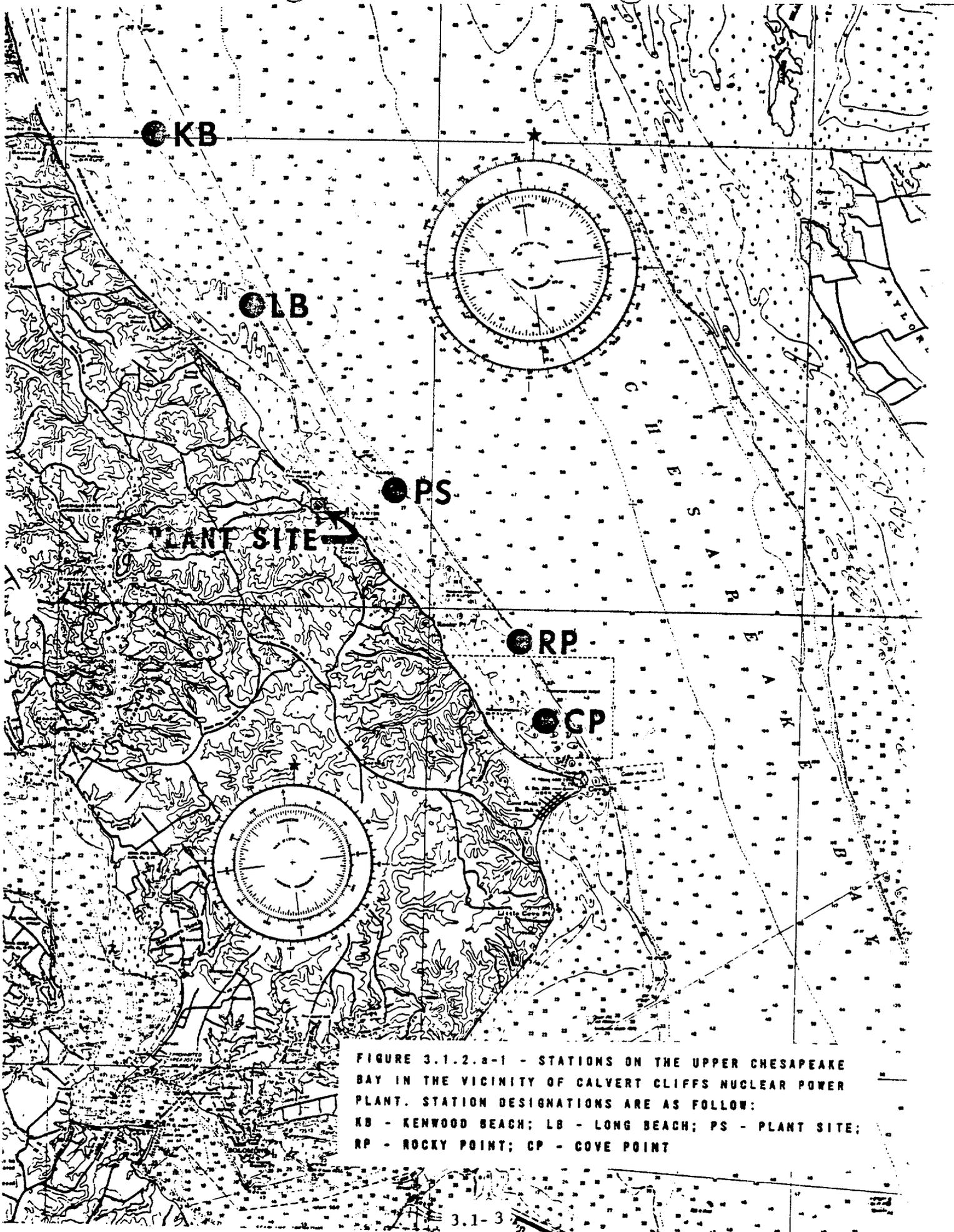


FIGURE 3.1.2.a-1 - STATIONS ON THE UPPER CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS NUCLEAR POWER PLANT. STATION DESIGNATIONS ARE AS FOLLO:

KB - KENWOOD BEACH; LB - LONG BEACH; PS - PLANT SITE;  
 RP - ROCKY POINT; CP - COVE POINT

### 3.1.2.b Impingement of Organisms

#### Objective

The purpose of this specification is to estimate both the number of organisms impinged on the travelling screens and the condition of these organisms when they are returned to the Chesapeake Bay.

#### Specification

Impingement studies shall be conducted to determine both the number of organisms impinged on the travelling screens and the condition of these organisms when they are returned to the Chesapeake Bay.

The following general specifications shall apply to any program which is conducted:

1. Fish and crabs collected during each sampling period shall be identified to the lowest positive taxonomic group, counted and measured to the nearest 1/2 centimeter.
2. If numbers exceeding 100 of any species are caught, a random sample of only 100 of that species shall be measured.
3. Total weight of each species caught during each sampling period shall be tabulated.
4. A survival study to determine the condition of impinged fish shall be conducted in such a manner as is necessary to determine the average survival of each species whose impingement rates may be important with respect to the local fishery.

#### Reporting Requirements

Results of these studies shall be submitted in the Annual Environmental Operating Report. Whenever an obviously unusual event occurs with regard to either the number of a fish species or blue crabs being impinged or their survival, a Non-Routine Report shall be made to the NRC. Report levels shall not be established for this study.

## Basis

Information on species, quantities, and survival of fish and crabs impinged on the travelling screens during the first year of operation at Calvert Cliffs Unit No. 1 was obtained during a sampling program specified in the Environmental Technical Specifications for Unit No. 1. Using this information a different study program was designed for 1976. Since future results and changes in Federal and State regulatory requirements may necessitate changes in this program, the exact details of the impingement studies have been submitted to the NRC as a separate document. This will enable changes to be made in this program without changing the Environmental Technical Specifications.

Results of the first year of impingement sampling have shown that the numbers of fish being impinged and their survival at any time are highly variable and are not only heavily species dependent, but also depend on the temperature and dissolved oxygen concentration of the water. Because of this, a reporting level which depends on the number of fish of each species impinged during any one sampling period would be relatively meaningless and may result in numerous non-routine reports which may not be indicative of "impending unacceptable environmental stress". In order to develop a reporting level which is indicative of "impending unacceptable environmental stress", the effect of impingement and subsequent survival of returned fish on the local fishery would have to be known. This would require a very complex ecological model which is not available at the present time. In fact, the ultimate decision of whether an impact is unacceptable or not lies with the various State and Federal regulatory agencies. For these reasons a reporting level will not be established for this study.

4.0 SPECIAL SURVEILLANCE AND STUDY ACTIVITIES

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 33  
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendments by Baltimore Gas & Electric Company (the licensee) dated July 24, 1979 and January 29, 1981, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the applications, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

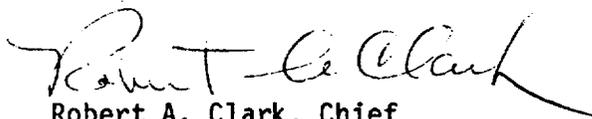
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2 of Facility Operating License No. DPR-69 is hereby amended to read as follows:

2. Technical Specifications

- The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 33, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the  
Technical Specifications

Date of Issuance: March 25, 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 33

FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NO. 50-318

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Remove Page  
Table of Contents

3.1-1  
3.1-2  
3.1-3  
3.1-4  
3.1-5  
3.1-6  
3.1-7  
3.1-8  
3.1-9  
3.1-10  
4.1-1  
4.1-2  
4.1-3  
4.2-1

Insert Pages  
Table of Contents

3.1-1  
3.1-2  
3.1-3  
3.1-4  
3.1-5  
  
4.1-1

UNITED STATES NUCLEAR REGULATORY COMMISSION  
DOCKET NOS. 50-317 AND 318  
BALTIMORE GAS AND ELECTRIC COMPANY  
NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 49 and 33 to Facility Operating Licenses Nos. DPR-53 and DPR-69, issued to Baltimore Gas and Electric Company, which revised Technical Specifications for operation of the Calvert Cliffs Nuclear Power Plant, Units Nos. 1 and 2. The amendments are effective as of the date of issuance.

These amendments modify the Appendix B (Environmental) Technical Specifications to delete Sections 3.1 "Abiotic Nonradiological Surveillance", 4.1 "Thermal Plume Mapping" and 4.2 "Studies to Investigate Alternate Effluent Limitations" and parts of Section 3.1.2 "Biotic Nonradiological Surveillance" which contain monitoring programs for the protection of the aquatic environment. Some of these aquatic programs have been completed. The NRC will rely on the requirements of the National Pollutant Discharge Elimination Systems (NPDES) Permit issued by the State of Maryland for the protection of the aquatic environment.

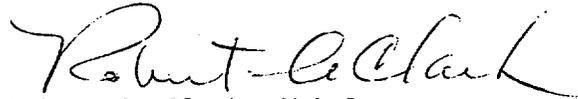
The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of the amendments was not required since the amendments do not involve a significant hazards consideration.

- 2 -

For further details with respect to this action, see (1) the applications for amendments dated July 24, 1979 and January 29, 1981, (2) Amendment Nos. 49 and 33 to License Nos. DPR-53 and DPR-69, and (3) the Commission's related letter to the licensee dated March 25, 1981. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D.C. and at the Calvert County Library, Prince Frederick, Maryland. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 25th day of March, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing