

May 1, 1985

Docket Nos. 50-317  
and 50-318

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

Dear Mr. Lundvall:

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The Commission has issued the enclosed Amendment Nos. 102 and 84 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 licenses in response to your application dated June 15, 1984.

The amendments change the expiration date for the Unit 1 Operating License, DPR-53, from July 7, 2009, to July 31, 2014, and change the expiration date for the Unit 2 Operating License, DPR-69, from July 7, 2009, to August 13, 2016.

A copy of the related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next monthly Federal Register notice.

Sincerely,

/S/

David H. Jaffe, Project Manager  
Operating Reactors Branch #3  
Division of Licensing

Enclosures:

1. Amendment No. 102 to DPR-53
2. Amendment No. 84 to DPR-69
3. Safety Evaluation

cc w/enclosure:  
See next page

\*\*See previous white for concurrences

ORB#3:DL PMKreutzer 4/26/85	ORB#3:DL DJaffe 4/26/85	AD/DHFS** WRussell 4/17/85	AD/CSE** RBosnak 4/16/85	AD/MC&E** WJohnston 4/12/85	AD/RS** RHouston 4/15/85	AD/CPS** LRubenstein 4/15/85
AD/GP/DSI** FSchroeder 4/15/85	ORB#3:DL** JRMiller 4/18/85	OELD** CWoodward 4/22/85	AD:OR:DL GClairas 4/30/85	D/DL HThompson 5/1/85		

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Mr. A. E. Lundvall, Jr.  
Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant

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Calvert County Board of County  
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NRC Inspector and Enforcement  
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Nuclear Power Department  
Calvert Cliffs Nuclear Power Plant  
Maryland Routes 2 and 4  
Lusby, Maryland 20657

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Plant Superintendent  
Calvert Cliffs Nuclear Power Plant  
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Lusby, Maryland 20657

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Lusby, Maryland 20657

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Gaithersburg, Maryland 20877

Combustion Engineering, Inc.  
ATTN: Mr. R. R. Mills, Manager  
Engineering Services  
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Windsor, Connecticut 06095

Department of Natural Resources  
Energy Administration, Power Plant  
Siting Program  
Attn: Mr. T. Magette  
Tawes State Office Building  
Annapolis, Maryland 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.102  
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Baltimore Gas & Electric Company (the licensee) dated June 15, 1984, complies 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 application, 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, Facility Operating License No. DPR-53 is hereby amended by changing paragraph E. to read as follows:

E. This license is effective as of the date of issuance and shall expire at midnight July 31, 2014.

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

FOR THE NUCLEAR REGULATORY COMMISSION

  
Hugh L. Thompson, Jr., Director  
Division of Licensing

Date of Issuance: May 1, 1985



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

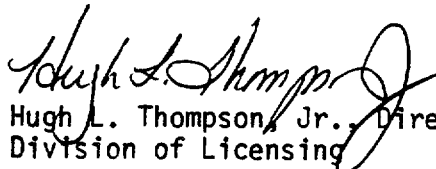
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 84  
License No. DPR-69

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Baltimore Gas & Electric Company (the licensee) dated June 15, 1984, complies 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 application, 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, Facility Operating License No. DPR-69 is hereby amended by changing paragraph G. to read as follows:
  - G. This license is effective as of the date of issuance and shall expire at midnight August 13, 2016.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Hugh L. Thompson, Jr., Director  
Division of Licensing

Date of Issuance: May 1, 1985



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 102 AND 84

TO FACILITY OPERATING LICENSE NOS. DPR-53 AND DPR-69

BALTIMORE GAS AND ELECTRIC COMPANY

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-317 AND 50-318

Introduction

By application dated June 15, 1984, Baltimore Gas and Electric Company (BG&E) requested amendments to the facility operating licenses for Calvert Cliffs Units 1 and 2. The proposed amendments would change the expiration date for the Unit 1 Operating License, DPR-53, from July 7, 2009 to July 31, 2014, and change the expiration date for the Unit 2 Operating License, DPR-69, from July 7, 2009, to August 13, 2016.

Discussion and Evaluation

Section 103.c of the Atomic Energy Act of 1954 provides that a license is to be issued for a specified period not exceeding 40 years. 10 CFR§50.51 specifies that each license will be issued for a fixed period of time not to exceed 40 years from the date of issuance. The currently licensed term for Calvert Cliffs Units 1 and 2 is 40 years commencing with issuance of the construction permit (July 7, 1969). Accounting for the time that was required for plant construction, this represents an effective operating license term of 35 years for Unit 1 and 33 years for Unit 2. Consistent with Section 103.c of the Atomic Energy Act and Section 50.51 of the Commission's regulations, the licensee, by its application of June 15, 1984, seeks extensions of the operating license terms for Calvert Cliffs Units 1 and 2 such that the fixed period of the licenses would be 40 years from the date of operating license issuance.

The licensee's request for extension of the operating licenses is based on the fact that a 40-year service life was considered during the design and construction of the plant. Although this does not mean that some components will not wear out during the plant lifetime, design features were incorporated which maximize the inspectability of structures, systems and equipment. Surveillance and maintenance practices which were implemented in accordance with the ASME code and the facility Technical Specifications provide assurance that any unexpected degradation in plant equipment will be identified and corrected.

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The design of the reactor vessel and its internals considered the effects of 40 years of operation at full power with a plant capacity factor of 80% (32 effective full power years). Analyses have demonstrated that expected cumulative neutron fluences will not be a limiting consideration. In addition to these calculations, surveillance capsules placed inside the reactor vessel provide a means of monitoring the cumulative effects of power operation.

Aging analyses have been performed for all safety-related electrical equipment in accordance with 10 CFR 50.49, "Environmental qualification of electrical equipment important to safety for nuclear power plants", identifying qualified lifetimes for this equipment. These lifetimes will be incorporated into plant equipment maintenance and replacement practices to ensure that all safety-related electrical equipment remains qualified and available to perform its safety function regardless of the overall age of the plant.

Based upon the above, it is concluded that extension of the operating licenses for Calvert Cliffs Units 1 and 2 to allow a 40-year service life is consistent with the safety analysis in that all issues associated with plant aging have already been addressed. Accordingly, we find the proposed change to the expiration date of the Calvert Cliffs Units 1 and 2 Operating Licenses to be acceptable.

#### Environmental Consideration

An Environmental Assessment and Finding of No Significant Impact relating to the proposed extension of facility operating license termination dates for Calvert Cliffs Units 1 and 2 was published in the Federal Register on April 10, 1985 (50 FR 14185).

#### Conclusion

We have concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: May 1, 1985

Principal Contributor:  
D. Jaffe