

Februar 19, 1997

Mr. Charles H. Cruse
Vice President - Nuclear Energy
Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

SUBJECT: ISSUANCE OF AMENDMENT FOR CALVERT CLIFFS NUCLEAR POWER PLANT,
UNIT NO. 1 (TAC NO. M96693)

Dear Mr. Cruse:

The Commission has issued the enclosed Amendment No.220 to Facility Operating License No. DPR-53 for the Calvert Cliffs Nuclear Power Plant, Unit No. 1. This amendment consists of changes to the Operating License in response to your application transmitted by letter dated October 3, 1996.

The amendment concerns the provisions at Calvert Cliffs for receiving, possessing, and using byproduct, source, and special nuclear material. As they currently exist, the provisions for Unit 2 contain no license restrictions on the possession and use of byproduct, source, or special nuclear material while Unit 1 has several license restrictions. The proposed amendment would change the Unit 1 license to be consistent with the Unit 2 license. The staff finds this license amendment change to be acceptable since both units share the same radiation protection staff and the training and procedures used to control the acceptance and use of radioactive material at Unit 2 are sufficient to control the radioactive material at Unit 1.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

/s/

Alexander W. Dromerick, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-317

Enclosures: 1. Amendment No.220 to DPR-53
2. Safety Evaluation

cc w/encls: See next page

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DATED: February 19, 1997

AMENDMENT NO. 220 TO FACILITY OPERATING LICENSE NO. DPR-53-CALVERT CLIFFS
UNIT 1

Docket File

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PDI-1 Reading

S. Varga

S. Bajwa

S. Little

A. Dromerick

OGC

G. Hill (2), T-5 C3

C. Grimes, 013/H15

ACRS

L. Doerflein, Region I

cc: Plant Service list

210059



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 19, 1997

Mr. Charles H. Cruse
Vice President - Nuclear Energy
Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

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Sincerely,

A handwritten signature in cursive script, reading "Alexander W. Dromerick".

Alexander W. Dromerick, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-317

Enclosures: 1. Amendment No 220 to DPR-53
2. Safety Evaluation

cc w/encls: See next page

Mr. Charles H. Cruse
Calvert Cliffs Nuclear Power Plant

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

cc:

President
Calvert County Board of
Commissioners
175 Main Street
Prince Frederick, MD 20678

Mr. Joseph H. Walter, Chief Engineer
Public Service Commission of
Maryland
Engineering Division
6 St. Paul Centre
Baltimore, MD 21202-6806

D. A. Brune, Esquire
General Counsel
Baltimore Gas and Electric Company
P.O. Box 1475
Baltimore, MD 21203

Kristen A. Burger, Esquire
Maryland People's Counsel
6 St. Paul Centre
Suite 2102
Baltimore, MD 21202-1631

Jay E. Silberg, Esquire
Shaw, Pittman, Potts, and Trowbridge
2300 N Street, NW
Washington, DC 20037

Patricia T. Birnie, Esquire
Co-Director
Maryland Safe Energy Coalition
P.O. Box 33111
Baltimore, MD 21218

Mr. Terrence J. Camilleri, Director,
NRM
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-47027

Mr. Larry Bell
NRC Technical Training Center
5700 Brainerd Road
Chattanooga, TN 37411-4017

Resident Inspector
U.S. Nuclear Regulatory
Commission
P.O. Box 287
St. Leonard, MD 20685

Mr. Richard I. McLean
Administrator - Radioecology
Department of Natural Resources
580 Taylor Avenue
Tawes State Office Building, B3
Annapolis, MD 21401

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 1

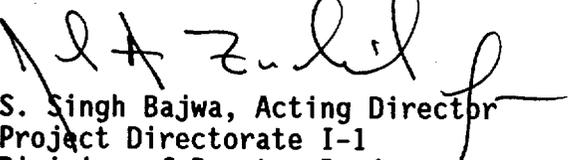
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 220
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Baltimore Gas and Electric Company (the licensee) dated October 3, 1996, 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, paragraph 2.B.3 and 2.B.4, Page 3, of Facility Operating License No. DPR-53 is hereby amended to read as follows:
3. Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;

3. This license amendment is effective as of the date of its issuance to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION


S. Singh Bajwa, Acting Director
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Page 3 of License

Date of Issuance: February 19, 1997

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO.220 FACILITY OPERATING LICENSE NO. DPR-53

DOCKET NO. 50-317

Revise License DPR-53 as follows:*

Remove Pages

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Insert Pages

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*Indicates Rollover Page

3. Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
4. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

1. Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 2700 megawatts (thermal).

2. Technical Specifications

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

3. The licensee is required to implement and maintain the administrative controls identified in Section 6 of the NRC's Fire Protection Safety Evaluation on the facility dated September 14, 1979.

4. Physical Protection

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Calvert Cliffs Nuclear Power Plant Physical Security Plan," with revisions submitted through February 17, 1988;

"Calvert Cliffs Nuclear Power Plant Guard Training and Qualification Plan," with revisions submitted through November 1, 1985; and "Calvert Cliffs Nuclear Power Plant Safeguards Contingency Plan," with revisions submitted February 9, 1988. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

5. Secondary Water Chemistry Monitoring Program

The licensee shall implement a secondary water chemistry monitoring program to inhibit steam generator tube degradation. This program shall include:

- a. Identification of a sampling schedule for the critical parameters and control points for these parameters.
- b. Identification of the procedures used to quantify parameters that are critical to control points.
- c. Identification of process sampling points.
- d. Procedure for recording and management of data.
- e. Procedures defining corrective actions for off control point chemistry conditions; and
- f. A procedure identifying the authority responsible for the interpretation of the data and the sequence and timing of administrative events required to initiate corrective action.

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

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Roger S. Boyd

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachment:

Appendices A & B -
Technical Specifications

Date of Issuance: July 31, 1974



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 220 TO FACILITY OPERATING LICENSE NO. DPR-53
BALTIMORE GAS AND ELECTRIC COMPANY
CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-317

1.0 INTRODUCTION

By letter dated October 3, 1996, Baltimore Gas and Electric Company (licensee), requested that the Calvert Cliffs Unit 1 Facility Operating License No. DPR-53 be amended to allow Unit 1 to receive, possess, and use byproduct, source, or special nuclear material in the same quantities permitted by the Unit 2 license.

2.0 BACKGROUND

During the construction permit stage for a nuclear power plant, each applicant is required to apply for a materials license for materials held by the licensee. In order to receive, possess, and use byproduct, source, and special nuclear materials, construction permit applicants must apply for separate 10 CFR Part 30, 40, and 70 licenses, respectively. The NRC issues these licenses with certain restrictions on the form and amount of byproduct, source, and special nuclear material that can be received, possessed and used. When a plant applies for an operating license, the Part 30, 40, and 70 licenses are incorporated into the more broad 10 CFR Part 50 license for operating reactors. At that time, any restrictions on the form and amount of byproduct, source, and special nuclear materials are usually lifted. The reason for lifting these restrictions in the Part 50 license is that the activity levels and quantities of radionuclides originally authorized under the Part 30, 40, and 70 licenses are relatively small when compared to the activity levels and quantities of radionuclides present in the nuclear fuel. In the case of Calvert Cliffs Unit 1, the Part 30, 40, and 70 licenses were transferred to the operating license without removing the restrictions on the form and amounts of byproduct, source, and special nuclear material permitted.

Calvert Cliffs Unit 1 is licensed under 10 CFR Part 30 to receive, possess, and use 100 millicuries of byproduct material for sample analysis or instrument calibration, 500 millicuries of byproduct material in the form of equipment; and 500 millicuries of Sodium-24 for steam turbine acceptance testing. In addition, Unit 1 is licensed to receive, possess, and use 100 millicuries each of source or special nuclear material under 10 CFR Parts 40 and 70. Unit 2 is licensed under 10 CFR Parts 30, 40, and 70 to receive, possess, and use, in amounts as required, any byproduct, source, or special nuclear material for sample analysis or instruments calibration or associated with radioactive apparatus or components. This proposed license amendment

would change the Unit 1 license to be consistent with the Unit 2 license by replacing Unit 1's license conditions 2.B.3 and 2.B.4 with the same wording as Unit 2's license condition 2.B.4.

3.0 EVALUATION

The license for Calvert Cliffs Unit 2, which has been in effect for 20 years, was issued without any restrictions concerning the form or amount of byproduct, source, or special nuclear material that could be used for sample analysis or instrument calibration, or associated with radioactive apparatus or components. The license for Calvert Cliffs Unit 1, which was issued about 2 years before the Unit 2 license, does contain restrictions on the amounts of byproduct, source, and special nuclear material that the licensee can possess and use.

As discussed in the background section above, the operating licenses for most operating plants do not contain any restrictions on the form or amounts of byproduct, source, or special nuclear materials that these plants are permitted to receive, possess, or use. Such restrictions on operating plants, if they reflect the activity levels and quantities of radionuclides originally authorized under the Part 30, 40, and 70 licenses, may be problematic because such levels and quantities are relatively small when compared to the activity levels and quantities of radionuclides present in the nuclear fuel.

Since Calvert Cliffs Units 1 and 2 are physically located on the same site, they share the same personnel. The radiation protection staff responsible for radioactive material received onsite, are trained in the handling of all levels of radioactive material for both units. Moreover, procedures used to control the acceptance and use of radioactive material are sufficient to control such material in unrestricted forms or amounts.

Operation of Unit 1 with the proposed license amendment would not result in any significant difference between the types or amounts of any effluents that may be released offsite from Unit 1 and the types or amounts of any effluents which may be released offsite from Unit 2. In addition, operation of Unit 1 with this license amendment would not result in any significant increase in individual or cumulative occupational radiation exposure beyond that considered in the operation of Unit 2.

Removal of the restrictions on the Unit 1 license will permit both units to receive, possess, and use, in amounts as required, any byproduct, source, or special nuclear material for sample analysis or instrument calibration or associated with radioactive apparatus or components.

On the basis of the considerations discussed above, the staff finds the licensee's proposed license amendment to change the Unit 1 provisions for receiving, possessing, and using byproduct, source, and special nuclear material to be consistent with those provisions in Unit 2's license is acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Maryland State official was notified of the proposed issuance of the amendment. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (61 FR 57482). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: C. Hinson

Date: February 19, 1997