



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 6, 1994

Docket Nos. 50-317
and 50-318

Mr. Robert E. Denton
Vice President - Nuclear Energy
Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657-4702

Dear Mr. Denton:

SUBJECT: ISSUANCE OF AMENDMENTS FOR CALVERT CLIFFS NUCLEAR POWER PLANT,
UNIT NO. 1 (TAC NO. M89621) AND UNIT NO. 2 (TAC NO. M89622)

The Commission has issued the enclosed Amendment No. 196 to Facility Operating License No. DPR-53 and Amendment No. 173 to Facility Operating License No. DPR-69 for the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications (TSs) in response to your application transmitted by letter dated June 8, 1994.

The amendments revise the Calvert Cliffs Nuclear Power Plant, Units 1 and 2, TS 4.6.2.2.b to extend the Containment Air Cooling (CAC) System surveillance frequency to accommodate the 24-month fuel cycle currently in use at Calvert Cliffs. As requested in Generic Letter 91-04, "Changes In Technical Specification Surveillance Intervals To Accommodate a 24-month Fuel Cycle," the licensee provided an evaluation in support of the change which concludes the effect on safety is small and does not invalidate any assumption in the plant licensing basis.

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,

Daniel G. McDonald, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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PDR ADOCK 05000317
P PDR

Enclosures:

1. Amendment No. 196 to DPR-53
2. Amendment No. 173 to DPR-69
3. Safety Evaluation

cc w/enclosures:
See next page

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10/11

Mr. Robert E. Denton
Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

cc:

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Chattanooga, Tennessee 37411-4017

DATED: September 6, 1994

AMENDMENT NO. 196 TO FACILITY OPERATING LICENSE NO. DPR-53-CALVERT CLIFFS
UNIT 1

AMENDMENT NO. 173 TO FACILITY OPERATING LICENSE NO. DPR-69-CALVERT CLIFFS
UNIT 2

Docket File

PUBLIC

PDI-1 Reading

S. Varga, 14/E/4

C. Miller, 14/A/4

M. Case

C. Vogan

D. McDonald

OGC

D. Hagan, 3302 MNBB

C. Liang, 8/E/23

G. Hill (4), P1-22

C. Grimes, 11/F/23

J. Harold

ACRS (10)

OPA

OC/LFDCB

PD plant-specific file

C. Cowgill, Region I

C. McCracken, 8/D/1

cc: Plant Service list

September 6, 1994

Docket Nos. 50-317
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Baltimore Gas and Electric Company
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The amendments revise the Calvert Cliffs Nuclear Power Plant, Units 1 and 2, TS 4.6.2.2.b to extend the Containment Air Cooling (CAC) System surveillance frequency to accommodate the 24-month fuel cycle currently in use at Calvert Cliffs. As requested in Generic Letter 91-04, "Changes In Technical Specification Surveillance Intervals To Accommodate a 24-month Fuel Cycle," the licensee provided an evaluation in support of the change which concludes the effect on safety is small and does not invalidate any assumption in the plant licensing basis.

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,
Original signed by
Daniel G. McDonald, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 196 to DPR-53
2. Amendment No. 173 to DPR-69
3. Safety Evaluation

cc w/enclosures:

See next page

#15 SEA

PDI-1:LA	PDI-1:PE <i>PE</i>	PDI-1:PM <i>PM</i>	NRR/SP/B	OGC	PDI-1:D <i>MR</i>
CVoganc <i>CV</i>	JHarold:avl	DMcDonald	CMcCracken	<i>CM</i>	PTK MJCase
8/16/94	08/16/94	08/16/94	8/18/94	8/29/94	9/16/94

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FILENAME: G:\CC1-2\CC89621.AMD



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. 196
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 June 8, 1994, 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, 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:

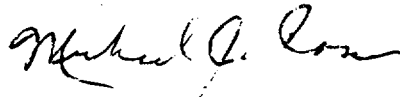
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PDR ADDCK 05000317
P PDR

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 196, 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 and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Michael J. Case, Acting Director
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: September 6, 1994



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

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 173
License No. DPR-69

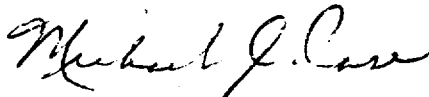
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Baltimore Gas and Electric Company (the licensee) dated June 8, 1994, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules 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, 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. 173, 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 and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Michael J. Case, Acting Director
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: September 6, 1994

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 196 FACILITY OPERATING LICENSE NO. DPR-53

AMENDMENT NO. 173 FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NOS. 50-317 AND 50-318

Revise Appendix A as follows:

Remove Pages

Unit 1
3/4 6-19

Unit 2
3/4 6-15

Insert Pages

Unit 1
3/4 6-19

Unit 2
3/4 6-15

J

3/4.6 CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying that each unit operates for at least 15 minutes.
 3. Verifying a cooling water flow rate of ≥ 2000 gpm to each cooling unit when the full flow service water outlet valves are fully open.
- b. At least once per **REFUELING INTERVAL** by verifying that each unit starts automatically on the appropriate ESFAS test signal.

3/4.6 CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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 3. Verifying a cooling water flow rate of ≥ 2000 gpm to each cooling unit when the full flow service water outlet valves are fully open.
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 196 TO FACILITY OPERATING LICENSE NO. DPR-53
AND AMENDMENT NO. 173 TO FACILITY OPERATING LICENSE NO. DPR-69
BALTIMORE GAS AND ELECTRIC COMPANY
CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-317 AND 50-318

1.0 INTRODUCTION

By letter dated June 8, 1994, the Baltimore Gas and Electric Company (the licensee) submitted a request for changes to the Calvert Cliffs Nuclear Power Plant, Units Nos. 1 and 2, Technical Specifications (TSs). The requested changes would revise Section 4.6.2.2.b to extend the Containment Air Cooling (CAC) System surveillance frequency to accommodate the 24-month fuel cycles currently in use at Calvert Cliffs. As requested in Generic Letter (GL) 91-04, "Changes In Technical Specification Surveillance Intervals To Accommodate a 24-month Fuel Cycle," the licensee provided an evaluation in support of the change which concludes the effect on safety is small and does not invalidate any assumption in the plant licensing basis.

2.0 EVALUATION

Subsequent to increasing the refueling interval from 18 months to 24 months, the licensee requested amendments to the TSs of both units which added the definition "Refueling Interval - at least once per 24-months" to Table 1.2 of TS Definition 1.22, "Frequency Notation." The requested amendments adding the 24-month definition do not change the existing definition for "R - at least once per 18-months." The 18-month frequency definition is necessary to assure the safety-related systems and components which have not yet been approved for 24-month surveillance intervals have their surveillances performed at the required 18-months intervals. This is accomplished during scheduled mid-cycle surveillance/maintenance outages until all the safety-related systems and components have been approved for the 24-month refueling interval. The Commission issued Amendment No. 133 to Facility Operating License No. DPR-53 and Amendment No. 114 to Facility Operating License No. DPR-69 for Units Nos. 1 and 2, respectively, by letter dated December 21, 1988, which included the definition for a 24-month Refueling Interval.

The changes were consistent with the current guidance in GL 91-04 and, therefore, no other changes are necessary in relation to defining the existing surveillance intervals in the TS to support the requested changes to the CAC system surveillance intervals.

The CAC system cools the containment atmosphere limiting containment pressure following postulated accident conditions such as a Loss of Coolant Accident (LOCA) or a Main Steam Line Break (MSLB) in containment. In addition, the CAC system is used to maintain containment temperature during normal operation.

The CAC system consists of four cooling units inside containment which circulate service water through air cooling coils. The service water return line for each cooler has one manual and two air-operated stop valves, all in parallel. The air-operated valves can be controlled from the Control Room (CR). One control valve is used for normal cooling requirements and the other control valve opens automatically on receipt of a Containment Spray Actuation Signal (CSAS). After a LOCA or MSLB, the fans are run in slow speed. All fan motors may be manually started or stopped from the CR. All four fan motors start automatically in, or switch to, slow speed on receipt of a Safety Injection Actuation Signal (SIAS). TS 4.6.2.2.b verifies that the CAC system fans and valves operate properly on receipt of a SIAS and CSAS.

GL 91-04 states that for cases where 18-month surveillances do not involve calibration of instruments that perform safety functions, licensees should evaluate the effect on safety of the change in surveillance intervals which supports a conclusion that the effect on safety is small. Licensees should confirm that historical maintenance and surveillance data do not invalidate this conclusion.

An evaluation of the CAC surveillances from 1983 to 1994 found no surveillance test failures. The 18-month surveillance is similar to the monthly surveillance in that both surveillances test system response to a SIAS and CSAS. The 18-month surveillance differs only in that the SIAS and CSAS to the plant equipment are not blocked.

The staff has determined that the increase in the surveillance interval from 18 months to 24 months for CAC system surveillance as specified in TS 4.6.2.2.b is acceptable. This determination is based on the historical data which indicates that extending the surveillance interval will not adversely affect the ability to detect degradation in the CAC system and does not invalidate any assumption in the plant licensing basis.

3.0 STATE CONSULTATION

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

4.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendments involve 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 amendments involve no significant hazards consideration, and there has been no public comment on such finding (59 FR 37063). Accordingly, the amendments meet 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 amendments.

5.0 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Harold

Date: September 6, 1994