

MAY 20 1976

Docket 50-317

Mr. A. E. Lundvall, Jr.
Vice President, Supply
Baltimore Gas and Electric Company
Gas and Electric Building
Charles Center
Baltimore, Maryland 21203

Gentlemen:

In response to your request dated December 8, 1975, the NRC staff has completed its review of Item 3 described in your letter and has issued Amendment No. 14 to Facility Operating License No. DPR-53 for the Calvert Cliffs Nuclear Power Plant, Unit No. 1. This amendment revises the thermal monitoring requirements contained in Section 3.1.1 of the Appendix B Environmental Technical Specification for the referenced license. It authorizes the relocation of temperature sensors from the condenser outlet pipes to the discharge tunnels.

The staff has evaluated the potential environmental impact of operating the plant in accordance with this amendment and found that there will be no resultant change in effluent types or total amounts nor an increase in power level, and will not result in any significant environmental impact. The staff has determined that the relocation of the temperature sensors to the discharge tunnels will provide a more uniform and representative measurement of the true average discharge temperature than those recorded in the condenser outlet pipes. Having made these findings, the Commission has concluded, pursuant to 10 CFR 51.5(d)(4), that an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

This amendment does not involve new safety information of a type not considered by a previous Commission safety review of the facility. It does not involve a significant increase in the probability or consequences of an accident, does not involve a significant decrease in a safety margin and, therefore, does not involve a significant hazards consideration. The Commission has further concluded that there is reasonable assurance that the health and safety of the public will not be endangered by the proposed action.

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The license amendment and the associated revised pages to the Appendix B Environmental Technical Specifications are enclosed together with the related Federal Register Notice.

Please note that the other requested changes noted in your letter are presently under review by the staff and our position relative to these matters will be forwarded to you.

Sincerely,

Original signed by
George W. Knighton

for Voss A. Moore, Assistant Director
for Environmental Projects
Division of Site Safety and
Environmental Analysis

Enclosures:

- 1. Amendment No. 14 to DPR-53
- 2. Federal Register Notice

cc: (w/Enclosures)
(See next page)

Distribution:

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- S. Varga
- A. Steen
- (B. Scharf (w/15 tcys)
- ACRS-16-CAT.B
- OR-TIC
- E. Christopherson, PNL
- R. Foster, PNL
- M. Slater
- L. G. Hulman

CRESS NL OFFICE	DSE:EP-1	OR	EP-1	OELD	SDE:AD/EP
Mag #278607		DZiemann			
SURNAME	CHaupt:sp	EReeves	EGKnighton	BSmith	VAMoore
5/3/76	DATE 5/1/76	5/1/76	5/2/76	5/19/76	5/20/76

Mr. A. E. Lundvall, Jr.

cc w/Enclosures:

w/encl. & incoming:

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President, Board of County
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Mr. John V. Gore, Jr.
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bcc:

J. R. Buchanan, ^{ORNL} ENL
T. B. Abernathy, DTIE
A. Rosenthal, ASLAB
W. A. Goodrich, ASLBP

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BALTIMORE GAS AND ELECTRIC COMPANY
 DOCKET NO. 50-317
 CALVERT CLIFFS
 NUCLEAR PLANT, UNIT 1
 AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 14
 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 December 8, 1975, 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. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.

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3. This license amendment is effective 30 days following the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
George W. Knighton

J Voss A. Moore, Assistant Director
for Environmental Projects
Division of Site Safety and
Environmental Analysis

Attachment:
Changes to the
Technical Specifications

Date of Issuance:
MAY 20 1976

GRESS NL OFFICE	DRL:EP-1	DRL:EP-1	DRL:EP-1	OELD	ADEP	DRL:OR
Mag #278598	<i>CH</i>	<i>MS</i>	<i>GW</i>	<i>BS</i>	<i>VM</i>	DZiemann
SURNAME	CHaupt:sp	MSlater	GWKnighton	BSmith	VMoore	EReeses <i>gal</i>
5/3/76 DATE	5/1/76	5/1/76	5/19/76	5/19/76	5/20/76	5/11/76

ATTACHMENT TO LICENSE AMENDMENT
AMENDMENT NO. 14 TO FACILITY OPERATING LICENSE NO. DPR-53.
TO THE ENVIRONMENTAL TECHNICAL SPECIFICATIONS
BALTIMORE GAS AND ELECTRIC COMPANY
CALVERT CLIFFS NUCLEAR PLANT, UNIT 1
DOCKET NO. 50-317

Revise Appendix B, Environmental Technical Specifications as follows:

Remove Page:

2.

Insert New Page:

2.

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2.0 ENVIRONMENTAL PROTECTION CONDITION

2.1 Thermal

2.1.1 Maximum ΔT Across Condenser

Objective

The purpose of this specification is to limit thermal stress to organisms which may be entrained in the condenser cooling water of the plant.

Specification

This limit applies to the temperature rise of the cooling water as it passes through the condensers. The difference between the flow-weighted hourly average discharge and intake temperatures of the condenser cooling water shall not exceed 10°F during periods of normal operation. During each period when less than the full cooling water flow is available, the flow-weighted hourly average temperature rise shall not exceed 12°F for more than two hours.

Basis

The condenser cooling water system was designed to operate with a 10°F temperature rise in order to minimize thermal stress to organisms which may be entrained in the cooling water and to limit the maximum discharge temperature. However, it is inevitable that unscheduled pump outages and/or emergency maintenance requirements will necessitate a higher temperature rise during certain periods. During these periods enough time to make an orderly shift of load to other operating units in the system is allowed before a reduction in power is necessary.

3.0 MONITORING REQUIREMENTS

3.1 Thermal

3.1.1 Maximum ΔT Across Condenser

Objective

The purpose of this monitoring requirement is to assure that the cooling water temperature rise across the condenser is maintained within the technical specifications.

Specification

The plant computer will scan the temperature sensors located in each of the 6 condenser inlet pipes and in the discharge tunnels at least once each minute. These temperature readings will be used to calculate a flow-weighted hourly temperature average for both the inlet and outlet condenser cooling water. These averages along with the difference between them will be logged every hour by the computer. During operating periods when the computer is inoperative or under repair operating condenser inlet and outlet temperature readings shall be logged each hour. The precision of the temperature instrumentation is 0.5°F and the overall accuracy of the system is 1.0°F .

Basis

By using flow-weighted hourly average temperatures to calculate the temperature rise across the condenser, the environmental protection conditions as stated in section 2.1.1 can be meaningfully and accurately interpreted. A flow-weighted hourly average temperature rise is useful for estimating the overall thermal effect that the plant may have on organisms entrained in the condenser cooling water.

MAY 20 1976

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-317

BALTIMORE GAS AND ELECTRIC COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY

OPERATING LICENSE

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 14 to Facility Operating License No. DPR-53 issued to Baltimore Gas and Electric Company which revised Technical Specifications for operation of the Calvert Cliffs Nuclear Plant, Unit 1, located in Calvert County, Maryland. The amendment is effective 30 days following the date of issuance.

The amendment revises the location of temperature sensors from the condenser outlet pipes to the discharge tunnels and will provide a more representative measurement of true average discharge temperature.

The application for the amendment 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 amendment. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 8, 1975, and (2) Amendment No. 14 to License No. DPR-53. Both 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 item 2 may be obtained upon request to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attn: Director, Division of Site Safety and Environmental Analysis.

Dated at Rockville, Maryland, this *26th* day of *May* 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
George W. Knighton

George W. Knighton, Chief
Environmental Projects Branch 1
Division of Site Safety
and Environmental Analysis

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