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DEC 20 1974

Docket No. 50-317

Baltimore Gas & Electric Co.
 ATTN: Mr. A. E. Lundvall, Jr.
 Vice President, Supply
 Gas and Electric Building
 Charles Center
 Baltimore, Maryland 21203

Gentlemen:

By letters dated December 9, 1974 and December 10, 1974, Baltimore Gas and Electric Company (BG&E) has requested that its Operating License No. DPR-53 for Calvert Cliffs Unit 1 be amended to change the Technical Specification 4.11 requirements concerning the power levels at which baseline reactor internals vibration surveillance measurements must be taken.

As written, Technical Specification 4.11A requires that baseline measurements be made for Phase 1 and 2 analyses at 25%, 50%, 75% and 100% power levels during the initial plant startup. BG&E has informed us that it has presently established plateaus at 20%, 50%, 80% and 100% power levels in its startup program for purposes of making various steady state measurements. BG&E requested that Technical Specification 4.11 be modified to require the baseline vibration surveillance measurements to be made at the same power levels that it has presently established for other startup program measurements.

BG&E has informed us and we concur that meaningful data can be obtained at power levels as low as 20%. Due to the small percentage change requested in the power levels at which noise analyses will be made, we conclude that the decrease in the power level from 25% to 20% or increasing the power level from 75% to 80% for the baseline measurements as requested by BG&E will not affect the usefulness of the data and we concur with BG&E that the measurement plateaus at 20%, 50%, 80% and 100% power levels give an adequate spread in power levels for meaningful noise analysis.

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The modification proposed is a simple change in power level at which vibration surveillance measurements are made and we conclude that there is no significant safety hazard consideration associated with changing the Technical Specification as requested.

We are hereby amending License No. DPR-53 to change Specification 4.11A to require that baseline reactor internal vibration surveillance measurements be made at 20%, 50%, 80% and 100% power levels. The amended Technical Specification is presented as Change No. 4 to the Technical Specification and is attached to the enclosed Amendment No. 5 to the Calvert Cliffs Unit 1 Operating License. A copy of a Federal Register Notice of this Amendment is also enclosed.

Sincerely,

Original Signed by
R. C. DeYoung

R. C. DeYoung, Assistant Director
for Light Water Reactors Group 1
Directorate of Licensing

Enclosures:

1. Amendment No. 5 to DPR-53
2. Federal Register Notice

cc: Mr. James A. Biddison, Jr.
General Counsel
Gas and Electric Building
Charles Center
Baltimore, Maryland 21203

James C. Cawood, Jr., Esq.
Vice President
Chesapeake Environmental
Protection Association
4700 Auth Place
Camp Springs, Maryland 20023

George F. Trowbridge, Esq.
Shaw, Pittman, Potts & Trowbridge
910 17th Street, N.W.
Washington, D. C. 20006

OFFICE ➤	L:LWR 1-3 <i>JM</i>	L:LWR 1-3 <i>ODP</i>	OGC <i>STRIDIRON</i>	L:AD/LWR 1 <i>RCDeYoung</i>	
SURNAME ➤	GIVENBARK	ODPARR	STRIDIRON	RCDEYOUNG	
DATE ➤	12/13/74	12/16/74	12/20/74	12/20/74	

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cc: Mr. Warren D. Hodges, Director
Department of State Planning
301 West Preston Street
Baltimore, Maryland 21201

Mr. Bernard Fowler, President
Board of County Commissioners
Prince Frederick, Maryland 20678

Mr. Robert J. Blanco, Region III
Environmental Protection Agency
Sixth and Walnut Streets
Philadelphia, Pennsylvania 19106

Mr. Bruce Blanchard
Environmental Projects Review
Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240

Mr. Sheldon Myers
ATTN: Mr. Jack Anderson
Office of Federal Activities
EPA, Room W-541, Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

Colonel Howard Sargent
Executive Director of Civil Works
Office of the Chief of Engineers
Corps of Engineers
Department of Army
Forrestal Building, Room 4-G060
Washington, D. C. 20314

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Gentlemen:

By letters dated December 9, 1974 and December 10, 1974, Baltimore Gas and Electric Company (BG&E) has requested that its Operating License No. DPR-53 for Calvert Cliffs Unit 1 be amended to change the Technical Specification 4.11 requirements concerning the power levels at which baseline reactor internals vibration surveillance measurements must be taken.

As written, Technical Specification 4.11A requires that baseline measurements be made for Phase 1 and 2 analyses at 25%, 50%, 75% and 100% power levels during the initial plant startup. BG&E has informed us that it has presently established plateaus at 20%, 50%, 80% and 100% power levels in its startup program for purposes of making various steady state measurements. BG&E requested that Technical Specification 4.11 be modified to require the baseline vibration surveillance measurements to be made at the same power levels that it has presently established for other startup program measurements.

and we concur
BG&E has informed us that meaningful data can be obtained at power levels as low as 20%. ~~We do not believe~~ that the decrease in the power level from 25% to 20% or increasing the power level from 75% to 80% for the baseline measurements as requested by BG&E will ^{not} affect the usefulness of the data and we concur with BG&E that the measurement plateaus at 20%, 50%, 80% and 100% power levels give an adequate spread in power levels for meaningful noise analysis.

Due to the small percentage change requested in the power levels ~~at~~ which noise analysis will be made, we conclude

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-317

CALVERT CLIFFS UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 5
License No. DPR-53

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for amendment by Baltimore Gas and Electric Company (the licensee) dated December 9, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of the Facility License No. DPR-53 is hereby amended to read as follows:

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"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 4."

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

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
R. C. DeYoung

R. C. DeYoung, Assistant Director
for Light Water Reactors Group 1
Directorate of Licensing

Attachment:
Change No. 4 to Appendix A
Technical Specifications

Date of Issuance:
DEC 20 1974

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ATTACHMENT TO LICENSE AMENDMENT NO. 5
CHANGE NO. 4 TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-53
BALTIMORE GAS AND ELECTRIC COMPANY
CALVERT CLIFFS UNIT 1
DOCKET NO. 50-317

Technical Specification 4.11A is modified to read as follows:

A. Description of Testing

The surveillance testing shall be comprised of a minimum of two measurement phases.

1. Phase 1

This testing shall be conducted while operating under steady-state power operation conditions.

This testing shall comprise the recording of the noise component of the operating power range ex-core detector signals. The data shall be examined for the gross amplitude of core movement by determining the amplitude probability distribution, the extreme peak amplitude, sigma (the standard deviation for the measured set of data) and the root-mean-square. Baseline Phase 1 measurements and analyses shall be made at 20%, 50%, 80%, and 100% power levels during the initial plant startup.

2. Phase 2

This testing shall be conducted under steady-state conditions.

Overall noise characteristics including amplitude power distribution, frequency content, and Azimuthal relationships among signals shall be analyzed by determining the following:

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1. The power spectral density
2. Coherence and phase plots

Baseline Phase 2 measurements and analyses shall be made simultaneously with the Phase 1 measurements during the initial plant startup at 20%, 50%, 80%, and 100% power levels.

An action level shall be established to be a M sigma noise level. In any subsequent Phase 1 measurement, if the action level is exceeded, as determined by data recorder traces, subsequent Phase 2 analysis shall be performed within two weeks. An action level of N sigma shall be established to require plant operational restrictions to reduce the noise level. M and N shall be determined from the baseline Phase 2 analysis, with reference to as-built tolerances and structural limits. N may be specified as frequency dependent.

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UNITED STATES ATOMIC ENERGY 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. Atomic Energy Commission (the Commission) has issued Amendment No. 5 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 Power Plant, Unit 1, located in Calvert County, Maryland. The amendment is effective as of its date of issuance.

The amendment modifies the Specifications to require that the baseline reactor internals vibration surveillance measurements be made at 20%, 50%, 80% and 100% power levels.

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.

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For further details with respect to this action, see (1) the application for amendment, dated December 9, 1974, (2) Amendment No. 5 to License No. DPR-53, with any attachments, and (3) the related safety evaluation contained in the Commission's letter to Baltimore Gas and Electric Company. 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 20678.

A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing - Regulation.

Dated at Bethesda, Maryland, this 20 day of December 1974.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By
O. D. Parr

Olan D. Parr, Chief
Light Water Reactors
Project Branch 1-3
Directorate of Licensing

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