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

February 3, 1981

ocket 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:

In the process of reviewing your letter dated October 8, 1979 on Adequac; of Station Electric Distribution System Voltages, we find that additional information as detailed in the enclosure is needed to complete our review. Please provide the additional information within 45 days of receipt of this letter.

Sincerely,

Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Enclosure: As stated

cc: See next page

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cc:
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ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION
CALVERT CLIFFS NUCLEAR POWER PLANT
Units 1 and 2
DOCKET NO. 50-317 and 50-318

Reference 1: NRC letter (W. Gammill) to all Power Reactor Licensees, dated August 8, 1979.

Reference 2: Baltimore Gas and Electric Company letter (A. E. Lundvall) to the NRC (D.G. Eisenhut), dated October 8, 1979.

Reference 3: Baltimore Gas and Electric Company letter (A. E. Lundvall) to the NRC (D. L. Zieman), dated September 15, 1976

1. The voltage analysis submitted in Ref. 2 was performed using both service transformers (P-13000-1 and P-13000-2) supplying the Class 1E buses. Ref. 1 requests that an analysis be completed for the worst case. Submit an analysis assuming only one service transformer is in service prior to an accident (Guideline 2, Ref. 1). After the transients of the emergency loading, calculations showing the effect of starting a large non-safety load should be made (Guideline 3, Ref. 1). Also, confirm that the second-level of undervoltage protection relays will not give a spurious trip for this condition.

2. Ref. 2 provided calculations and tests for 4160 volt buses and 480 volt buses. Submit calculated voltages for all low-voltage AC (less than 480 volts) Class 1E buses or distribution terminals or document that all low-voltage AC Class 1E equipment will be operating within their required voltage ratings for each case analyzed. Do these buses supply any instruments or control circuits required by GDC-13? If so, is all equipment capable of sustaining the analyzed voltages without blowing fuses, overheating, etc., and without affecting the equipment's ability to perform the required function.

3. Ref. 3, Enclosure 1, page 1 refers to "safety related" buses 4160-14, 480-14A, and 480-14B. Are these buses Class 1E supplying Class 1E equipment? If so, submit an analysis for these buses and equipment as submitted for buses 11, 11A, and 11B.