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ARTHUR E. LUNDVALL, JR.
VICE PRESIDENT
SUPPLY

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Subject: Calvert Cliffs Nuclear Power Plant

Units Mos. 1 & 2, Dockets Mos. 50-317 & 50-318

May 18, 1981

10 CFR Part 50.48 and Appendix R

Request for Relief

References: (a) BG&E letter dated 3/19/81 from A. E. Lundvall, Jr. to D. G. Eisenhut, Fire Protection Modifications.

Dear Mr. Denton:

Baltimore Gas and Electric Company, pursuant to 10 CFR Part 50 Paragraph 50.12, hereby requests relief from the provisions of Paragraph 50.48(c)(5) of that Part to allow an extension of the required submittal date for the plans, schedules and design descriptions of the modifications needed to satisfy Section III.G.3 of Appendix R as described below. In addition, we hereby reiterate our request for other exemptions to specific requirements of Appendix R as detailed in Reference (a).

#### BACKGROUND

Our letter of 3/19/81, Reference (a), requested exemptions from certain requirements of 10 CFR 50 Appendix R, and submitted a design description of our plans to meet Appendix R, Section III.G.3, as required by 10 CFR 50.48(c)(5). In a telephone conversation on 4/23/81, your staff clarified the requirements for safe shutdown design description and associated circuits, and informed us that our design description was of insufficient detail. Since the submittal deadline for such detailed information was already past, your staff stated that a request for an exemption for this item would be appropriate. Attachment 1 is a summary of our understanding of requirements for information submittal as discussed in the 4/23/81 phone conversation. Please let us know if our understanding is not correct.

## DESCRIPTION OF REQUEST

Information meeting the requirements summarized in Attachment 1 will be generated as part of the continuing detailed design resulting from our "Report on Alternate Safe Shutdown". This process was described in Reference (a). The detailed information that you require is scheduled to

be complete for Unit 1 by 10/1/81 and for Unit 2 by 2/1/82, and will be submitted for your review by those dates. We therefore request an exemption from the schedule requirements of 10 CFR 50.48(c)(5) for detailed design descriptions of modifications needed to meet Appendix B Section III.G.3. Descriptions of our requests for exemptions from other provisions of Appendix R are contained in Reference (a) and are not repeated here.

### JUSTIFICATION

Our safe shutdown study is extremely detailed and comprehensive, and involves engineering and field analyses of all parts of all systems which may be involved in plant shutdown. A large amount of work has already been done in preparation of the "Report on Alternate Safe Shutdown", submitted to you on 3/19/81. This report provides the ground work and the basis for the detailed design which you wish to review. With this comprehensive basis already completed, the detailed design - though extensive and time-consuming - involves relatively straightforward engineering and modifications of the type routinely conducted under 10 CPR 50.59. Therefore, it would seem that the most significant part of your review could be completed based on information submitted on 3/19/81.

Because the detailed design involves possible modifications to vital functions of the plant, many of which are interrelated, anything less than an extremely careful and deliberate process would increase the possibility of an error that could have an adverse impact on plant operation or safe shutdown capabilities.

#### SAFETY REVIEW

This request for relief from the provisions of 10 CFR 50 has been reviewed by our Engineering Staff, and they have concluded that granting of the requested relief will not endanger life or property or the common defense and security and is otherwise in the public interest.

## FEE DETERMINATION

We have determined that the requested relief and exemptions are fee-exempt.

Sincerely

A. E. Lundvall, Vice President

Supply

cc: J. A. Biddison, Esquire

G. F. Trowbridge, Esquire

Messrs. E. L. Conner, Jr. - MRC

R. E. Architzel - MRC

# CONCERNING INFORMATION REQUIREMENTS FOR ALTERNATE SHUTDOWN AND ASSOCIATED CITATION

- (1) The only modifications which constitute an installation of alternate shutdown capability are those which alter the piring diagrams or the electrical schematics for systems or devices at previously reviewed by the URC and covered in the FSAF.
- Design details of modifications such as cable relocation or the installation of harriers to provide separation in assortance with Section III.G.2 of Appendix P do not need to be subsitual or reviewed by the TPC. Detailed submittals are required the installations covered by item (1) above. In this regard, only the "after modification" state of cables and devices will be considered when determining if separation in accordance with Section ITI.7.2 "exists".
- Toncerning "associated circuits"; our understance of the resonance required to satisfy the "Request for Additional Information" (enclosure 2 of "r. Fisenhut's letter dated 2/20/Pl is as follows
  - (a) The additional information is required only for areas where the present installation cannot or will not be altered to meet the requirements of III.3.2.
  - (b) Alternative shutdown capabilities necessary to achieve and maintain hot shutdown conditions only are of someon for this requirement.
  - c) The first category of associated circuits are cables that have a separation from the fire areas less than that required by Section III.0.2 and have a common power course with the alternate shutdown equipment and the power source is not a settled to restant of from the most-fire shutdown circuit of the power source is not a settled to restant a from the most-fire shutdown circuit of the power source is not a settled to restant a fire at the power, fuses or similar devices.

(d) The second cateromy of associated circuits are cables that have a separation from the fire areas less than that required by Section III.G.2 and have a connection to circuits of equipment whose spurious operation will adversely affect the shutdown capability, e.g., RHP/RCS Isolation Valves.

Mo cables will be didressed in this category. All devices whose inadvertent operation could adversely affect the shutdown capability are contained in the logic charts and operating descriptions included in the "Benort on Alternate Safe Chutdown" previoually provided. For example the pressurizer relief valves (FPV-102) and FPV-103, which such remain closed to maintain BCD inventory, are included in attachment 5 (p. 25) and are discussed subsequently. Any other valves which must be oven or closed during the shutdown are also andressed. All cables required to issure these valve positions are being addressed as shutdown circuits.

(e) The third category of associated circuits are cables that have a senaration for the fire areas less than that required by Section III. That uses a common enclosure, e.g., raceway, panel, function box, with a terrestive shutdown cables and are not electrically protected from the rost-fire shutdown circuits of concern to circuit pressure, fuses or similar devices.

No cables contained in this category need be addressed since as noted in (a) whose all cables are protected by fuses, circuit breakers or everload devices or are designed to be "shorted". Cables which are nest of the control scheme of a shutdown device but do not ilrectly as est device control (e.w. indicators, annunciator simults, are,) will be analyzed as shutdown simults and as such will not be addressed as associated circuits. Due to strict adherence to cable separation criteria, no single cable shares a common enclosure with redundant devices in separate divisions.