

MAR 16 1983

DCS MS-016

Docket Nos. 50-317  
and 50-318

Mr. A. E. Lundvall  
Vice President - Supply  
Baltimore Gas & Electric Company  
P. O. Box 1475  
Baltimore, Maryland 21203

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Dear Mr. Lundvall:

The Commission has issued the enclosed Order confirming your commitments to implement those post-TMI related items set forth in NUREG-0737 for which the staff requested completion on or after July 1, 1981. This Order is based on commitments contained in your letters responding to the NRC's Generic Letters 82-05 and 82-10 dated March 17, 1982 and May 5, 1982, respectively.

The Order references your letters and, in its attachments, contains lists of the applicable NUREG-0737 items with your schedular commitments. As discussed in the Order, several of the items listed in Generic Letter 82-10 will be handled outside of this Order.

The Commission's intention when it issued NUREG-0737 was that items would be completed in accordance with the staff's recommended schedule. However, our evaluation of your proposed schedule exceptions concludes that the proposed delays are acceptable. Among other things, the Order requires implementation of these items in accordance with your proposed schedule.

Some of the items set forth in the attachment to the Order are subject to post implementation review and inspection. Our post implementation review and/or the development of Technical Specifications may identify alterations to your method of implementing and maintaining the requirements. Any identified alterations will be the subject of future correspondence.

A copy of this Order is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by  
Robert A. Clark

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

B303300110 B30316  
PDR ADDCK 05000317  
P PDR

Enclosure:  
Order

D. R. Eisenhut  
13/16/82

1/19/83

OFFICE	cc w/enclosure See next page	ORB#3:DL PKreutzer	ORB#3:DL DJaffe	ORB#3:DL RAClark	ORAB Jaffe	AD:OR:DL GCL/afnas	OELD Cyr
SURNAME		PKreutzer	DJaffe	RAClark	Jaffe	GCL/afnas	Cyr
DATE		11/23/82 1/19/83	11/30/82	11/30/82	1/4/82	1/11/82	1/11/82



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

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Docket No. 50-317/50-318

Docketing and Service Section  
 Office of the Secretary of the Commission

SUBJECT: BALTIMORE GAS AND ELECTRIC COMPANY, Calvert Cliffs Nuclear Power  
 Plant, Unit Nos. 1 and 2

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 12 ) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s); Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
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- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Other: ORDER (NUREG-0737)

Division of Licensing  
 Office of Nuclear Reactor Regulation

Enclosure:  
 As Stated

OFFICE →	ORB#3:DL				
SURNAME →	PMKreutzer/pn				
DATE →	3/17/83				

Baltimore Gas and Electric Company

cc:

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Baltimore Gas and Electric Company  
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Baltimore, MD 21203

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Plant Superintendent  
Calvert Cliffs Nuclear Power Plant  
Maryland Routes 2 & 4  
Lusby, MD 20657

Bechtel Power Corporation  
Attn: Mr. J. C. Ventura  
Calvert Cliffs Project Engineer  
15740 Shady Grove Road  
Gaithersburg, MD 20760

Combustion Engineering, Inc.  
Attn: Mr. P. W. Kruse, Manager  
Engineering Services  
P. O. Box 500  
Windsor, CT 06095

Public Document Room  
Calvert County Library  
Prince Frederick, MD 20678

Director, Department of State Planning  
301 West Preston Street  
Baltimore, MD 21201

Mr. R. M. Douglass, Manager  
Quality Assurance Department  
Fort Smallwood Road Complex  
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Baltimore, MD 21203

Mr. S. M. Davis, General Supervisor  
Operations Quality Assurance  
Calvert Cliffs Nuclear Power Plant  
Maryland Routes 2 & 4  
Lusby, MD 20657

Ms. Mary Harrison, President  
Calvert County Board of County Commissioners  
Prince Frederick, MD 20768

U. S. Environmental Protection Agency  
Region III Office  
Attn: Regional Radiation Representative  
Curtis Building (Sixth Floor)  
Sixth and Walnut Streets  
Philadelphia, PA 19106

Mr. Ralph E. Architzel  
Resident Reactor Inspector  
NRC Inspection and Enforcement  
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Lusby, MD 20657

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Manager - Washington Nuclear Operations  
Combustion Engineering, Inc.  
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Nuclear Power Department  
Calvert Cliffs Nuclear Power Plant  
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Lusby, MD 20657

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Mr. R. E. Denton, General Supervisor  
Training & Technical Services  
Calvert Cliffs Nuclear Power Plant  
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Administrator, Power Plant Siting Program  
Energy and Coastal Zone Administration  
Department of Natural Resources  
Tawes State Office Building  
Annapolis, MD 21204

Regional Administrator  
Nuclear Regulatory Commission, Region I  
Office of Executive Director for Operations  
631 Park Avenue  
King of Prussia, Pennsylvania 19406



additional protection in the operation of nuclear facilities based on the experience from the accident at TMI-2 and the official studies and investigations of the accident. The staff's proposed requirements and schedule for implementation are set forth in NUREG-0737, "Clarification of TMI Action Plan Requirements." Among these requirements are a number of items, consisting of hardware modifications, administrative procedure implementation and specific information to be submitted by the licensee, scheduled to be completed on or after July 1, 1981. On March 17, 1982, a letter (Generic Letter 82-05) was sent to all licensees of operating power reactors for those items that were scheduled to be implemented from July 1, 1981 through March 1, 1982. Subsequently, on May 5, 1982, a letter (Generic Letter 82-10) was also sent to all licensees of operating power reactors for those items that were scheduled for implementation after March 1, 1982. These letters are hereby incorporated by reference. In these letters each licensee was requested to furnish within 30 days pursuant to 10 CFR 50.54(f) the following information for items which the staff had proposed for completion on or after July 1, 1981:

- (1) For applicable items that have been completed, confirmation of completion and the date of completion,
- (2) For items that have not been completed, a specific schedule for implementation, which the licensee committed to meet, and
- (3) Justification for delay, demonstration of need for the proposed schedule, and a description of the interim compensatory measures being taken.

III.

The licensee responded to the Generic Letter 82-05 by letter dated April 19, 1982; the licensee responded to the Generic Letter 82-10 by letter dated June 4, 1982. By letters dated October 12, 1982, November 16, 1982, January 21, 1983, February 18, 1983, and March 9, 1983, the licensee provided an updated schedule for completion of items identified by Generic Letters 82-05 and 82-10. In these submittals, the licensee confirmed that some of the items identified in the Generic Letters had been completed and made firm commitments to complete the remainder. Attachments 1 and 2, summarizing the licensee's schedular commitments or status, were developed by the staff from Generic Letters 82-05 and 82-10 (respectively), and the licensee-provided information.

Of the items listed in Generic Letter 82-10 requiring a response, six items are not included in this Order. Item I.A.1.3.2 is part of a separate rulemaking; Items I.C.1, III.A.1.2 (2 items), and III.A.2.2 will be handled separately following Commission actions that would proceed as a result of its consideration of Commission Paper SECY 82-111, as amended; for Items II.K.3.30 and II.K.3.31 (one item), the staff review of the generic models under II.K.3.30 has not been completed, and II.K.3.31 is not required until one year after staff approval of the generic models.

Most of the items addressed in this Order are considered by the licensee to be completed or to require no modifications. The staff's evaluation of the licensee's delays for the remaining items is provided herein:

II.B.3 - Post Accident Sampling System

The Post Accident Sampling System (PASS), common to both Calvert Cliffs Units, has been taken out of service for vendor-recommended modifications and improvements. All of the PASS sampling functions are expected to be restored by June 1, 1983. As an interim measure, the licensee will utilize the post accident sampling system which was in use prior to installation of the current system.

II.F.1.(1a)- Noble Gas Stack Monitor

The licensee has experienced significant equipment problems with the Noble Gas Stack Monitor. These problems are being actively pursued with the equipment vendor and are expected to be resolved to allow equipment operability at Calvert Cliffs Units 1 and 2 by June 1, 1983. The licensee will continue to use the interim measures which had been previously utilized at Calvert Cliffs.

II.F.1.(1b)- Noble Gas Steam Effluent Monitor

Installation of a reliable system continues to be a problem. The licensee hopes to complete installation and testing of the modification by March 1, 1984 for both Units 1 and 2. As an

interim measure, the licensee plans to utilize a system using dedicated portable instruments, placed in operation to meet the short term requirements of this item on January 1, 1980.

II.D.1.2 - Relief Valve and Safety Valve Test Program

The licensee has indicated that a plant-specific report on the test program will be submitted by September 30, 1983 for Unit 1 and February 28, 1984 for Unit 2. The results of tests already performed indicate that the primary system safety/relief valves at Calvert Cliffs will perform as required.

We find, based on the above evaluation, that 1) the licensee has taken corrective actions regarding the delays and has made a responsible effort to implement the NUREG-0737 requirements noted; 2) there is good cause for the several delays; and 3) as noted above, interim compensatory measures have been provided.

In view of the foregoing, I have determined that these modifications and actions are required in the interest of public health and safety and should, therefore, be confirmed by Order.

IV.

Accordingly, pursuant to Sections 103, 161i, and 161o of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED EFFECTIVE IMMEDIATELY THAT THE LICENSEE SHALL:

Implement and maintain the specific items described in the attachments to this Order in the manner described in the licensee's submittals noted in Section III herein no later than the dates in the attachments.

V.

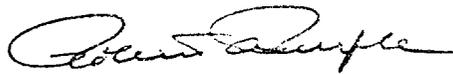
The licensee may request a hearing on this Order within 20 days of the date of publication of this Order in the Federal Register. A request for a hearing shall be addressed to the Director, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555. A copy shall also be sent to the Executive Legal Director at the same address. A REQUEST FOR HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

If a hearing is requested by the licensee, the Commission will issue an Order designating the time and place of any such hearing.

If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the licensee should comply with the requirements set forth in Section IV of this Order.

This Order is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Purple, Deputy Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland  
this 16th day of March  
1983.

Attachments:

1. Licensee's Commitments on Applicable NUREG-0737 Requirements from Generic Letter 82-05
2. Licensee's Commitments on Applicable NUREG-0737 Requirements from Generic Letter 82-10

LICENSEE COMMITMENTS ON APPLICABLE NUREG-0737 ITEMS  
FROM GENERIC LETTER 82-05

ITEM	TITLE	NUREG-0737 SCHEDULE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
I.A.3.1	Simulator Exams	10/1/81	Include simulator exams in licensing examinations.	Complete
II.B.2	Plant Shielding	1/1/82	Modify facility to provide access to vital areas under accident conditions.	Complete
II.B.3	Post-accident sampling	1/1/82	Install upgrade post-accident sampling capability.	June 1, 1983
II.B.4	Training for Mitigating Core Damage	10/1/81	Complete training program.	Complete
II.E.1.2	Aux FW Indication & Flow Indicator	7/1/81	Modify instrumentation to level of safety grade.	Complete
II.E.4.2	Containment Isolation Dependability	7/1/81	Part 5 - lower containment pressure setpoint to level compatible with normal operation.	Complete
II.E.4.2	Containment Isolation Dependability	7/1/81	Part 7 - isolate purge and vent valves on radiation signal.	Complete

PLANT NAME:

LICENSEE COMMITMENTS ON APPLICABLE NUREG-0737 ITEMS  
FROM GENERIC LETTER 82-05

ITEM	TITLE	NUREG-0737 SCHEDULE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)*
II.F.1	Accident Monitoring	1/1/82	(1a) Install noble gas stack effluent monitors	June 1, 1983
		1/1/82	(1b) Install noble gas steam effluent monitor	March 1, 1984 for Units 1 and 2
		1/1/82	(2) Provide capability for effluent monitoring of iodine.	Complete
		1/1/82	(3) Install in-containment radiation-level monitor.	Complete
		1/1/82	(4) Provide continuous indica- tion of containment pressure.	Complete
		1/1/82	(5) Provide continuous indica- tion of containment water level.	Complete
		1/1/82	(6) Provide continuous indica- tion of hydrogen concentra- tion in containment.	Complete

\*When completion date refers to a refueling outage (the estimated date when the outage begins), the item will be completed prior to the restart of the facility.

ITEM	TITLE	NUREG-0737 SCHEDULE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
I.A.1.3.1	Limit Overtime	10/1/82 per Gen. Ltr. 82-12 dtd. 6/15/82	Revise administrative procedures to limit overtime in accordance w/NRC Policy Statement issued by Gen. Ltr. No. 82-12, dtd. June 15, 1982.	Complete
I.A.1.3.2	*Minimum Shift Crew	To be superseded by Proposed Rule.	To be addressed in the Final Rule on Licensed Operator Staffing at Nuclear Power Units.	To be addressed when Final Rule is issued.
I.C.1	*Revise Emergency Procedures	Superseded by SECY 82-111	Reference SECY 82-111, Requirements for Emergency Response Capability.	To be determined
II.D.1.2	RV and SV Test Programs	7/1/82	Submit plant specific reports on relief and safety valve program	September 30, 1983 for Unit 1. February 28, 1984 for Unit 2.
II.D.1.3	Block Valve Test Program	7/1/82	Submit report on test program	Complete
II.K.3.30 & 31	*SBLOCA Analysis	1 yr. after staff approval of model	Submit plant specific analyses.	To be determined fol- lowing staff approval of model
III.A.1.2	*Staffing Levels for Emergency Situations	Superseded by SECY 82-111	Reference SECY 82-111, Requirements for Emergency Response Capability	To be determined
III.A.1.2	*Upgrade Emergency Support Facilities	"	"	" "
III.A.2.2	*Meteorological Data	"	"	" "
III.D.3.4	Control Room Habitability	To be determined by licensee	Modify facility as identified by licensee study.	Complete

\*Not Part of Confirmatory Order



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

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Division of Licensing  
Office of Nuclear Reactor Regulation

Enclosure:  
As Stated

OFFICE →	ORB#3:DL					
SURNAME →	PMKreutzer/pn					
DATE →	3/17/83					