



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555

July 15, 1992

Docket Nos. 50-317
and 50-318

Mr. G. C. Creel
Vice President - Nuclear Energy
Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
MD Rts. 2 & 4
P. O. Box 1535
Lusby, Maryland 20657

Dear Mr. Creel:

SUBJECT: RESPONSE TO THE 1991 PRESSURIZED THERMAL SHOCK RULE, 10 CFR 50.61,
CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 1 (TAC NO. M82504) AND
UNIT 2 (TAC NO. M82505)

By letters dated December 13, 1991, and May 22, 1992, Baltimore Gas and Electric Company (BG&E) responded to the requirements of paragraphs (b)(1) and (b)(4) of 10 CFR 50.61, "Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock Events." The projected values of RT_{pts} , the reference temperature calculated by the method given in paragraph (b)(2) of 10 CFR 50.61, were provided for the Calvert Cliffs Nuclear Power Plant, Units 1 and 2, vessel beltline materials as required by paragraph (b)(1) of the rule. It was noted that the Unit 1 RT_{pts} value will exceed the screening criteria prior to the expiration date of its current license and in accordance with paragraph (b)(4) of 10 CFR 50.61, BG&E's plans for further flux reduction were provided.

The staff has completed its review of your submittals as detailed in the Safety Evaluation (Enclosure 1). We have determined that the value of RT_{pts} calculated using the methodology in the PTS rule is applicable to the reactor vessels of both units; the fluence estimates are acceptable; and based on the material chemistry, irradiation temperature and neutron fluence that Unit 1 will reach the PTS screening criteria in 2005 which is based on a 50 percent flux reduction starting in Cycle 11. The screening criteria will be reached 9 years prior to the expiration date of the Unit 1 license which will expire in 2014. However, the staff requires the additional information identified (Enclosure 2) relating to the material chemistry for Unit 2 to determine when Unit 2 will reach the screening criteria. As noted in the enclosed Safety Evaluation, the BG&E estimate for Unit 2 reaching the screening criteria is greater than 20 years beyond its current license expiration date of 2016.

This completes our action related to the subject TAC number for Unit 1. We request that the information identified in Enclosure 2 be provided as soon as possible to allow for a timely completion of our review for Unit 2.

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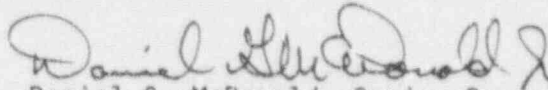
Mr. G. C. Creel

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July 15, 1992

This requirement affects on respondent and, therefore, is not subject to the Office of Management and Budget review under P.L. 96-511.

Sincerely,



Daniel G. McDonald, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Safety Evaluation
2. Request for Additional
Information - Unit 2

cc w/enclosures:
See next page

Mr. G. C. Creel
Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

cc:

Mr. Michael Moore, President
Calvert County Board of
Commissioners
175 Main Street
Prince Frederick, Maryland 20678

Mr. Joseph H. Walter
Engineering Division
Public Service Commission of
Maryland
American Building
231 E. Baltimore Street
Baltimore, Maryland 21202-3486

D. A. Brune, Esquire
General Counsel
Baltimore Gas and Electric Company
P. O. Box 1475
Baltimore, Maryland 21203

Kristen A. Burger, Esquire
Maryland People's Counsel
American Building, 9th Floor
231 E. Baltimore Street
Baltimore, Maryland 21202

Jay E. Silberg, Esquire
Shaw, Pittman, Rutts and Trowbridge
2300 N Street, NW
Washington, DC 20037

Patricia T. Birnie, Esquire
Co-Director
Maryland Safe Energy Coalition
P. O. Box 33111
Baltimore, Maryland 21218

Mr. G. L. Detter, Director, NRM
Calvert Cliffs Nuclear Power Plant
MD Rts. 2 & 4, P. O. Box 1535
Lusby, Maryland 20657

Resident Inspector
c/o U.S. Nuclear Regulatory
Commission
P. O. Box 287
St. Leonard, Maryland 20685

Mr. Richard I. McLean
Administrator - Radioecology
Department of Natural Resources
580 Taylor Avenue
Towers State Office Building
B3
Annapolis, Maryland 21401

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406