

NUCLEAR REGUL - TORY COMMISSION WASHINGTON, D. C. 20555

April 5, 1990

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 NRC BULLETIN 89-03 "POTENTIAL LOSS OF REQUIRED SHUTDOWN

MARGIN DURING REFUELING OPERATIONS" - CALVERT CLIFFS, UNIT NOS. 1 AND 2

REFERENCE: TAC Numbers 75411 (Unit 1) and 75412 (Unit 2)

On November 21, 1989, the NRC staff issued Bulletin 89-03 "Potential Loss of Required Shutdown Margin During Refueling Operations." The bulletin requested that all PWR licensees and PWR construction permit holders take the actions described in the bulletin to ensure that an adequate shutdown margin is maintained during all refueling operations. To accomplish this, three actions were described:

- Assure that any intermediate fuel assembly configuration (including control rods) intended to be used during refueling is identified and evaluated to maintain sufficient refueling boron concentration to result in a minimum shutdown margin of approximately 5%.
- Assure that fuel loading procedures only allow those intermediate fuel assembly configurations that do not violate the allowable shutdown margin and that these procedures are strictly adhered to.
- 3. Assure that the staff responsible for refueling operations is trained in the procedures recommended in Item 2 above and understand the potential consequences of violating these procedures. This training should include the fundamental aspects of criticality control with enriched fuel assemblies.

By letter dated January 16, 1990, you respond to the subject bulletin. You noted that the issuance of the bulletin was the result of a 10 CFR Part 21 notification submitted by Baltimore Gas and Electric Company. You further indicated that programs are in place to address the three actions described above.

9004180263 900405 PDR ADOCK 05000317 DEO!

We consider your response to be satisfactory and are closing the above referenced TAC numbers.

Sincerely,

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

cc: See next page

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

cc:

Mr. William T. Bowen, President Calvert County Board of Commissioners Prince Frederick, Maryland 20678

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

Mr. Jay E. Silberg, Esq. Shaw, Pittman, Potts and Trowbridge 2300 N Street, NW Washington, DC 20037

Ms. G. L. Adams, Licensing 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 437 Lusby, Maryland 20657

Mr. Thomas Magette
Administrator - Nuclear Evaluations
Department of Natural Resources
580 Taylor Avenue
Tawes State Office Building
PPER B3
Annapolis, Maryland 21401

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

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

Ms. Kirsten A. Burger, Esq. Maryland People's Counsel American Building, 9th Floor 231 E. Baltimore Street Baltimore, Maryland 21202

Ms. Patricia Birnie Co-Director Maryland Safe Energy Coalition P. O. Box 902 Columbia, Maryland 21044 We consider your response to be satisfactory and are closing the above referenced TAC numbers.

Sincerely,

DRIGINAL SIGNED BY,

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

cc: See next page

Distribution:
Docket File
NRC/Local PDRs
PDI-1 Rdg
SVarga
BBoger
RACapra
DMcDonald
OGC
CVogan
EJordan
ACRS(10)
JLinville
LKopp
DLaBarge

PDI-1 W CVogan 4/5/90 HPDI-1 DMcDonald:rsc 4/5/90 DDI-1 SERACapra 4/5/90