

December 11, 2000

Mr. Charles H. Cruse
Vice President - Nuclear Energy
Calvert Cliffs Nuclear Power Plant, Inc.
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 -
RE: CREDITING CONTROL ELEMENT ASSEMBLY (CEA) DROP TIME
SURVEILLANCE REQUIREMENT FOR CEA TRIP (TAC NOS. MB0003 AND
MB0004)

Dear Mr. Cruse:

The Commission has issued the enclosed Amendment No. 239 to Renewed Facility Operating License No. DPR-53 and Amendment No. 213 to Facility Operating License No. DPR-69 for the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments are in response to your application transmitted by letter dated September 15, 2000.

The amendments implement Technical Specification Task Force (TSTF) - 134, Revision 1. TSTF-134 revises Technical Specification Surveillance Requirements (SR) 3.1.7.2. which verifies control element assembly (CEA) trip function from 50 percent withdrawn position, by adding a note allowing SR 3.1.7.2. not be performed if TS SR 3.1.4.6 (CEA drop time test) has been met. TSTF-134, Revision 1, was approved by the Nuclear Regulatory Commission on April 21, 1998.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular biweekly *Federal Register* notice.

Sincerely,

/RA/

Alexander W. Dromerick, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures: 1. Amendment No. 239 to DPR-53
2. Amendment No. 213 to DPR-69
3. Safety Evaluation

cc w/encls: See next page

Mr. Charles H. Cruse
Vice President - Nuclear Energy
Calvert Cliffs Nuclear Power Plant, Inc.
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

December 11, 2000

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 -
RE: CREDITING CONTROL ELEMENT ASSEMBLY (CEA) DROP TIME
SURVEILLANCE REQUIREMENT FOR CEA TRIP (TAC NOS. MB0003 AND
MB0004)

Dear Mr. Cruse:

The Commission has issued the enclosed Amendment No. 239 to Renewed Facility Operating License No. DPR-53 and Amendment No. 213 to Facility Operating License No. DPR-69 for the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments are in response to your application transmitted by letter dated September 15, 2000.

The amendments implement Technical Specification Task Force (TSTF) - 134, Revision 1. TSTF-134 revises Technical Specification Surveillance Requirements (SR) 3.1.7.2. which verifies control element assembly (CEA) trip function from 50 percent withdrawn position, by adding a note allowing SR 3.1.7.2. not be performed if TS SR 3.1.4.6 (CEA drop time test) has been met. TSTF-134, Revision 1, was approved by the Nuclear Regulatory Commission on April 21, 1998.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular biweekly *Federal Register* notice.

Sincerely,

/RA/

Alexander W. Dromerick, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures: 1. Amendment No. 239 to DPR-53
2. Amendment No. 213 to DPR-69
3. Safety Evaluation

cc w/encls: See next page

DISTRIBUTION:

PUBLIC S. Little ACRS W. Beckner
PDI-1 Reading File OGC M. Oprendeck, RI
M. Gamberoni G. Hill (2) S. Dromerick

Accession Number: ML003763159 *SE input provided 10/13/00 and no major changes were made.

OFFICE	PM:PDI-1	LA:PDI-1	RTSB*	OGC	SC:PDI-1
NAME	ADromerick	SLittle	RDennig	STurk	HPastis for MGamberoni
DATE	11/9/00	11/9/00	10/13/00	11/22/00	12/5/00

OFFICIAL RECORD COPY

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

President
Calvert County Board of
Commissioners
175 Main Street
Prince Frederick, MD 20678

James P. Bennett, Esquire
Counsel
Constellation Energy Group
P.O. Box 1475
Baltimore, MD 21203

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

Mr. Bruce S. Montgomery, Director
NRM
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 287
St. Leonard, MD 20685

Mr. Richard I. McLean, Manager
Nuclear Programs
Power Plant Research Program
Maryland Dept. of Natural Resources
Tawes State Office Building, B3
Annapolis, MD 21401

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

Mr. Joseph H. Walter, Chief Engineer
Public Service Commission of
Maryland
Engineering Division
6 St. Paul Centre
Baltimore, MD 21202-6806

Kristen A. Burger, Esquire
Maryland People's Counsel
6 St. Paul Centre
Suite 2102
Baltimore, MD 21202-1631

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

Mr. Loren F. Donatell
NRC Technical Training Center
5700 Brainerd Road
Chattanooga, TN 37411-4017

CALVERT CLIFFS NUCLEAR POWER PLANT, INC.

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NO. 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 239
Renewed License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Calvert Cliffs Nuclear Power Plant, Inc. (the licensee) dated September 15, 2000, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2. of Facility Operating License No. DPR-53 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 239 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA by Helen N. Pastis for/

Marsha Gamberoni, Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 11, 2000

CALVERT CLIFFS NUCLEAR POWER PLANT, INC.

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 2

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 213
Renewed License No. DPR-69

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Calvert Cliffs Nuclear Power Plant, Inc. (the licensee) dated September 15, 2000, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2. of Facility Operating License No. DPR-69 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 213 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA by Helen N. Pastis for/

Marsha Gamberoni, Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 11, 2000

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 239 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-53

AMENDMENT NO. 213 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NOS. 50-317 AND 50-318

Replace the following page of the Appendix A Technical Specifications with the attached revised page. The revised page is identified by amendment number and contains marginal lines indicating the areas of change.

Remove Page

3.1.7-2

Insert Page

3.1.7-2

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 239 TO RENEWED

FACILITY OPERATING LICENSE NO. DPR-53

AND AMENDMENT NO. 213 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-69

CALVERT CLIFFS NUCLEAR POWER PLANT, INC.

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-317 AND 50-318

1.0 INTRODUCTION

By letter dated September 15, 2000, Calvert Cliffs Nuclear Power Plant, Inc. (the licensee) submitted a request for changes to the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2 Technical Specifications (TSs).

Low power physics testing is performed subsequent to each refueling. Included in the low power physics testing are Control Element Assembly (CEA) group worth measurements, which have the potential to reduce shutdown margin (SDM) to below TS limits. TS 3.1.7, Special Test Exception-SDM, allows suspension of the SDM TS limits as long as Surveillance Requirement (SR) 3.1.7.1 and SR 3.1.7.2 are met. The proposed changes revise 3.1.7.2, which verifies that each CEA not fully inserted is capable of full insertion when tripped from at least the 50 percent withdrawn position. The proposed License Amendment Request (LAR) adds a note to SR 3.1.7.2 which allows the SR to not be performed during initial power escalation following a refueling outage if SR 3.1.4.6 (CEA drop time test) has been met. In addition, the word "once" has been added to the SR 3.1.7.2 frequency as an administrative change to clarify that the SR is only performed once and not on a periodic basis.

2.0 EVALUATION

SR 3.1.4.6, CEA drop time testing, proves trippability of the CEAs from greater than the 50 percent withdrawn position and therefore can satisfy the requirements of SR 3.1.7.2. The requirement to perform SR 3.1.7.2 within 7 days prior to reducing SDM provides assurance that no maintenance has been performed that interferes with the CEAs ability to trip. The added note states that SR 3.1.7.2 is "Not required to be performed during initial power escalation following a refueling outage if SR 3.1.4.6 has been met." The note allows credit to be taken for the CEA drop time testing, if it has been performed during the initial power escalation following a refueling. SR 3.1.4.6 has a frequency of "prior to reactor criticality, after each removal of the reactor head." Any activity that affects control element drive mechanism operation would be detected by SR 3.1.4.6, satisfying the SR 3.1.7.2 requirement. If more than 7 days elapse between performance of SR 3.1.4.6 and implementation of TS 3.1.7, without the note SR

3.1.7.2 would require separate verification of CEA trippability. This additional scram would cause increased component wear, complicate and delay completion of low power physics testing, and result in decreased plant availability.

The proposed LAR allows SR 3.1.4.6, CEA drop time testing, to be performed in lieu of SR 3.1.7.2, CEA insertion test from 50 percent withdrawn position, during initial power escalation following refueling. SR 3.1.4.6 verifies CEA trippability and drop time, and is required to be performed after each reactor vessel head removal or other maintenance that could affect CEA trippability and drop time. SR 3.1.4.6 is more than adequate to prove that CEAs will trip from a 50 percent withdrawn position, and can therefore satisfy the requirements of SR 3.1.7.2. The additional scrams that would be performed without the proposed note and the 7-day frequency by SR 3.1.7.2 are not necessary. Furthermore, this change is consistent with approved TS Task Force-134, Revision 1. Therefore, the NRC staff concludes that the changes proposed by this LAR are acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Maryland State official was notified of the proposed issuance of the amendments. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (65 FR 62384). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: R.Tjader

Date: December 11, 2000