

July 5, 2005

Mr. George Vanderheyden, Vice President  
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 -  
AMENDMENTS RE: CHANGE TO TECHNICAL SPECIFICATIONS RELATED  
TO THE REMOVAL OF HYDROGEN CONTROL FROM THE DESIGN BASIS  
(TAC NOS. MC4021 AND MC4022)

Dear Mr. Vanderheyden:

The Commission has issued the enclosed Amendment No. 274 to Renewed Facility Operating License No. DPR-53 and Amendment No. 251 to Renewed Facility Operating License No. DPR-69 for the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2. These amendments consist of changes to the Technical Specifications (TSs) in response to your application transmitted by letter dated July 20, 2004.

The amendments correct references in TS 5.6.7 and TS Table 3.3.10-1, and delete reference to hydrogen analyzers in TS 3.8.1, which were removed from the TSs by Amendment Nos. 262 and 239, for Unit Nos. 1 and 2, respectively, on March 2, 2004.

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/**

Patrick D. Milano, Sr. Project Manager, Section 1  
Project Directorate 1  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures: 1. Amendment No. 274 to DPR-53  
2. Amendment No. 251 to DPR-69  
3. Safety Evaluation

cc w/encls: See next page

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A copy of our safety evaluation is also enclosed. The Notice of Issuance will be included in the Commission's Biweekly *Federal Register* Notice.

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*/RA/*

Patrick D. Milano, 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

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 3. Safety Evaluation

DISTRIBUTION:

PDI-1 R/F JTrapp, RGN-1  
 ACRS RGuzman OGC  
 PUBLIC SLittle GHill (2)  
 RLaufer JCalvo JKim

cc w/encls: See next page

Accession No.: ML051590004

Package No.:

TSs: ML

OFFICE	PDI-1/PM	PDI-1/PM	PDI-1/LA	EEIB/SC	OGC	PDI-1/SC
NAME	RGuzman	PMllano	SLittle	AHowe	JHull	RLaufer
DATE	6/20/05	6/30/05	6/30/05	6/22/05	6/29/05	7/01/05

Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2

cc:

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

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

Carey Fleming, Esquire  
Sr. Counsel - Nuclear Generation  
Constellation Generation Group, LLC  
750 East Pratt Street, 17<sup>th</sup> floor  
Baltimore, MD 21202

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

Lou Larragoite  
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. R. I. McLean, Administrator  
Radioecology Environ Impact Prog  
Department of Natural Resources  
Nuclear Evaluations  
580 Taylor Avenue  
Tawes State Office Building  
Annapolis, MD 21401

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

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

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. 274  
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 July 20, 2004, 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 Renewed 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. 274, are hereby incorporated into 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 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA by PTam for/*

Richard J. Laufer, 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: July 5, 2005

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. 251  
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 July 20, 2004, 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 Renewed 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. 251, 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 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA by PTam for/*

Richard J. Laufer, 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: July 5, 2005

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 274 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-53

AMENDMENT NO. 251 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NOS. 50-317 AND 50-318

Replace the following pages of the Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove Pages

3.3.10-4  
3.3.10-5  
3.8.1-1  
3.8.1-5  
3.8.1-6  
3.8.1-7  
3.8.1-8  
3.8.1-9  
5.6-9

Insert Pages

3.3.10-4  
3.3.10-5  
3.8.1-1  
3.8.1-5  
3.8.1-6  
3.8.1-7  
3.8.1-8  
3.8.1-9  
5.6-9

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 274 TO RENEWED

FACILITY OPERATING LICENSE NO. DPR-53

AND AMENDMENT NO. 251 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 application dated July 20, 2004 (ADAMS Accession No. ML042080101), the 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 (CCNPP 1 and 2) Technical Specifications (TSs). The requested changes would correct references in TS 5.6.7 and TS Table 3.3.10-1, and delete reference to hydrogen analyzers in TS 3.8.1.

Amendments Nos. 262 and 239 (Reference 1) were approved and issued on March 2, 2004, to remove the requirements for the containment hydrogen recombiners and the hydrogen analyzers as equipment required to control hydrogen in the containment and to delete all references to hydrogen analyzers in the TSs. However, related changes to TS Table 3.3.10-1, TS 5.6.7, and TS 3.8.1 were not included in the mark-up of proposed TS changes in the Reference 2 that requested to remove hydrogen control from the design basis.

Therefore, the licensee requests an administrative change to correct this oversight.

2.0 REGULATORY EVALUATION

The Nuclear Regulatory Commission (NRC) staff finds that the licensee in its July 20, 2004, submittal identified the applicable regulatory requirements. The regulatory requirements and guidance which the NRC staff considered in its review of the application are as follows:

1. Title 10 of the *Code of Federal Regulations* (10 CFR) establishes the fundamental regulatory requirements with respect to the reactivity control systems. Specifically, General Design Criterion (GDC) 13, "Instrumentation and control," states, in part, that instrumentation shall be provided to monitor variables and systems over their anticipated ranges for normal operation, for anticipated operational occurrences, and for accident conditions as appropriate to assure adequate safety.
2. Section 50.36, "Technical specifications," provides the regulatory requirements for the content required in a licensee's TSs. Section 50.36 states, in part, that the TSs will include surveillance requirements to assure that the quality of systems and components

is maintained, that facility operation will be within safety limits, and that the limiting conditions for operation (LCOs) will be met.

### 3.0 TECHNICAL EVALUATION

#### 3.1 TS Table 3.3.10-1

This change is an administrative change to align the references in the table to Conditions in TS 3.3.10. The change to TS 3.3.10 (Reference 1) deleted Condition D, requiring a resequencing of the remainder of the Conditions and Required Actions. The proposed change should have also changed the conditions referenced in the Table 3.3.10-1 column headed "Conditions Referenced From Required Action E.1." However, due to an oversight, this change was not reflected in Reference 2. Therefore, the licensee requests a change to TS Table 3.3.10-1 to change the referenced Conditions to accurately reflect the necessary Conditions and Required Actions. The proposed change is administrative in that it does not change the Required Actions for a given plant configuration; therefore, the NRC staff determines that the proposed change is acceptable.

#### 3.2 TS 5.6.7, Post-Accident Monitoring Report

This change is an administrative change of reference from LCO 3.3.10 Condition G to LCO 3.3.10 Condition F. This proposed change results from the approved change to LCO 3.3.10 (Reference 1), which deleted Condition D and resequenced the remainder of the Conditions. Due to an oversight, this change was not reflected in Reference 2. Since TS 3.3.10 Condition G no longer exists, the requirements in TS 5.6.7 are no longer appropriate. Therefore, the NRC staff determines that the proposed change is acceptable.

#### 3.3 TS 3.8.1, AC Sources - Operating

Reference 1 removed hydrogen analyzers from the TSs. In proposing the TS changes, the licensee did not remove references to the hydrogen analyzers in TS 3.8.1 where they are called "H2 analyzer." As noted in Reference 1, removal of the hydrogen analyzers from the TS was a complete removal and no action was stated that would have required partial retention of hydrogen analyzer requirements in any TS. The remaining reference to hydrogen analyzers is in "Technical Specification 3.8.1, AC Sources - Operating." The references to hydrogen analyzers are only as part of equipment lists supported by the Class IE AC electrical power distribution system. Deletion of hydrogen analyzers by Reference 1 means that the references in TS 3.8.1 should also be deleted. Therefore, the NRC staff determines that the proposed changes are acceptable.

### 4.0 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.

### 5.0 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. 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 (70 FR 400, dated January 4, 2005). 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.

## 6.0 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.

## 7.0 REFERENCES

1. Letter from Mr. G. S. Vissing, NRC to Mr. G. Vanderheyden, CCNPP, dated March 2, 2004, "Elimination of Requirements for Hydrogen Recombiners and Hydrogen Monitors (TAC Nos. MB8419 and MB8420.)"
2. Letter from Mr. P. E. Katz, CCNPP to Document Control Desk NRC, dated March 28, 2003, "Request for Exemption to 10 CFR 50.44 and 10 CFR Part 50, Appendix E, Section VI and Proposed License Amendments for Relaxation of Post-Accident Hydrogen Monitoring and Control Requirements."

Principal Contributor: J. Kim

Date: July 5, 2005