



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 23, 2006

Mr. James A. Spina, 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 -  
ADMINISTRATIVE CHANGE TO FACILITY OPERATING LICENSE IN  
CONJUNCTION WITH THE COMMISSION ORDER EA-06-037 AND  
REVISIONS TO PHYSICAL SECURITY PLAN, TRAINING AND  
QUALIFICATION PLAN, AND SAFEGUARDS CONTINGENCY PLAN  
(TAC NOS. MD2206 AND MD2207)

Dear Mr. Spina:

By letters to the Nuclear Regulatory Commission (NRC) dated May 19, 2006, Calvert Cliffs Nuclear Power Plant, Inc. (the licensee), submitted its revised security plans and confirmed the full implementation of Order EA-06-037 at Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2 (Calvert Cliffs). Order EA-06-037 provided an update to an adversary characteristic in the design basis threat. In addition to the changes required under the Order, the licensee reported other security plan changes in its May 19 letter that were made in accordance with Section 50.54(p)(2) of Part 50 of Title 10 of the *Code of Federal Regulations* (10 CFR).

The NRC staff has completed its review of the changes related to implementation of Order EA-06-037 along with the changes reported under 10 CFR 50.54(p)(2). As discussed in the enclosed safeguards evaluation (Enclosure 2), the NRC staff has determined that the licensee's changes to the security plans meet the requirements of the NRC Order and 10 CFR Part 73 requirements and are, therefore, acceptable. In addition, the NRC staff determined that the licensee properly concluded that the other changes to its security plans, as described in its letters dated May 19, 2006, did not result in a decrease in safeguards effectiveness. The effectiveness of these security provisions will continue to be the subject of NRC review and inspection.

Consistent with the Order, a conforming administrative change to the Renewed Facility Operating Licenses is required to ensure implementation of the Order EA-06-037 requirements.

**NOTICE:** Enclosure 2 contains Security-Related Information. Upon separation from Enclosure 2, this letter and Enclosure 1 are DECONTROLLED.

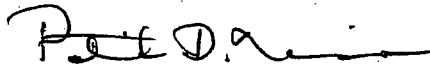
J. Spina

- 2 -

Therefore, an administrative license change to Renewed Facility Operating License Nos. DPR-53 AND DPR-69 for Calvert Cliffs Unit Nos. 1 and 2, respectively, is being made to incorporate the reference to the revised Physical Security Plan, Safeguards Contingency Plan, and Training and Qualification Plan. These changes comply with the standards and requirements of the Atomic Energy Act of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Part 1. Please replace Page 4 of the Renewed Facility Operating Licenses with the enclosed pages (Enclosure 1). Enclosure 2 to this letter is designated exempt from public disclosure under 10 CFR 2.390(d)(1).

If you have any questions, please contact me at (301) 415-1457.

Sincerely,



Patrick D. Milano, Senior Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures:

1. Revised Page 4 of Licenses
2. Safeguards Evaluation

cc w/encls 1 and 2: Gene P. Gwiazdowski, Director, Nuclear Security

cc w/encl 1 only: See next page

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

cc w/encl 1 only:

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

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

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

Mr. Roy Hickok  
NRC Technical Training Center  
5700 Brainerd Road  
Chattanooga, TN 37411-4017

Mr. Jay S. Gaines  
Director, Licensing  
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, Manager  
Nuclear Programs  
Power Plant Research Program  
Maryland Department of Natural Resources  
580 Taylor Avenue (B wing, 3rd floor)  
Tawes State Office Building  
Annapolis, MD 21401

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

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

- c. Identification of process sampling points;
  - d. Procedure for recording and management of data;
  - e. Procedures defining corrective actions for off control point chemistry conditions; and
  - f. A procedure identifying the authority responsible for the interpretation of the data and the sequence and timing of administrative events required to initiate corrective action.
- D. The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans, including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contain Safeguards Information protected under 10 CFR 73.21, is entitled: "Calvert Cliffs Nuclear Power Plant Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan, Revision 1" submitted May 19, 2006.
- E. The licensee is required to implement and maintain in effect all provisions of the approved fire protection program as described in the Updated Final Safety Analysis Report for the facility and as approved in the SER dated September 14, 1979 and Supplements dated October 2, 1980; March 18, 1982; and September 27, 1982; and Exemptions dated August 16, 1982; April 21, 1983; March 15, 1984; August 22, 1990; and April 7, 1999 subject to the following provision: The licensee may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.
- F. At the time of the next scheduled update to the FSAR required pursuant to 10 CFR 50.71(e)(4) following the issuance of this renewed license, the licensee shall update the FSAR to include the FSAR supplement submitted pursuant to 10 CFR 54.21(d), as amended and supplemented by the program descriptions in Appendix E to the Safety Evaluation Report, NUREG-1705. Until that FSAR update is complete, the licensee may make changes to the programs described in Appendix E without prior Commission approval, provided that the licensee evaluates each such change pursuant to the criteria set forth in 10 CFR 50.59 and otherwise complies with the requirements in that section.
- G. Any future actions listed in Appendix E to the Safety Evaluation Report, NUREG-1705, shall be included in the FSAR. The licensee shall complete these actions by July 31, 2014, except for the volumetric inspections of the control element drive mechanisms, which must be completed no later than 2029 for Unit 1 (Appendix E, Item 65).

(5) Additional Conditions

The Additional Conditions contained in Appendix C as revised through Amendment No. 224 are hereby incorporated into this license. Calvert Cliffs Nuclear Power Plant, Inc., shall operate the facility in accordance with the Additional Conditions.

(6) Secondary Water Chemistry Monitoring Program

The Calvert Cliffs Nuclear Power Plant, Inc. shall implement a secondary water chemistry monitoring program to inhibit steam generator tube degradation. This program shall include:

- a. Identification of a sampling schedule for the critical parameters and control points for these parameters;
- b. Identification of the procedures used to quantify parameters that are critical to control points;
- c. Identification of process sampling points;
- d. Procedure for recording and management of data;
- e. Procedures defining corrective actions for off control point chemistry conditions; and
- f. A procedure identifying the authority responsible for the interpretation of the data and the sequence and timing of administrative events required to initiate corrective action.

- D. The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans, including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contain Safeguards Information protected under 10 CFR 73.21, is entitled: "Calvert Cliffs Nuclear Power Plant Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan, Revision 1" submitted dated May 19, 2006.
- E. The Calvert Cliffs Nuclear Power Plant, Inc. shall implement and maintain in effect all provisions of the approved fire protection program as described in the Updated Final Safety Analysis Report for the facility and as approved in the SER dated September 14, 1979, and Supplements dated October 2, 1980; March 18, 1982; and September 27, 1982; and Exemptions dated August 16, 1982; April 21, 1983; March 15, 1984; August 22, 1990; and April 7, 1999 subject to the following provision: The Calvert Cliffs Nuclear Power Plant, Inc. may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

J. Spina

- 2 -

Therefore, an administrative license change to Renewed Facility Operating License Nos. DPR-53 AND DPR-69 for Calvert Cliffs Unit Nos. 1 and 2, respectively, is being made to incorporate the reference to the revised Physical Security Plan, Safeguards Contingency Plan, and Training and Qualification Plan. These changes comply with the standards and requirements of the Atomic Energy Act of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Part 1. Please replace Page 4 of the Renewed Facility Operating Licenses with the enclosed pages (Enclosure 1). Enclosure 2 to this letter is designated exempt from public disclosure under 10 CFR 2.390(d)(1).

If you have any questions, please contact me at (301) 415-1451.

Sincerely,

/RA/

Patrick D. Milano, Senior Project Manager  
Plant Licensing Branch III-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-263

Enclosures:

- 1. Revised Page 4 of Licenses
- 2. Safeguards Evaluation

cc w/encls 1 and 2: Gene P. Gwiazdowski, Director, Nuclear Security

cc w/encl 1 only: See next page

DISTRIBUTION:

PUBLIC

LPLI-1 R/F

R. Laufer

P. Milano

S. Little

S. Morris

P. S. Lee, NSIR

RidsNrrDorLplI-1

RidsNrrPMPMilano

RidsNrrLASLitle

RidsNsirDsp

R. Barnes, NSIR

A. Burritt, R-I

G. Hill, OIS

K. Grimes

OGC

ACRS

RidsRgn1MailCenter

RidsNsirLAKGrimes

RidsOgcRp

RidsAcrcAcnwMailCenter

ADAMS Accession No. - Letter and Enclosure 1: ML062850064

ADAMS Accession No. - Enclosure 2:

OFFICE	LPLI-1/PM	LPLI-1/LA	NSIR/RSB	NSIR/RSB/BC	OGC NLO	LPLI-1/BC
NAME	PMilano	SLittle	RBarnes	SMorris	Grimes	RLaufer
DATE	10/12/06	10/12/06	10/04/06	10/09/06	10/14/06	10/12/06

OFFICIAL RECORD COPY