September 14, 2010

Mr. George H. Gellrich
Vice President
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657

SUBJECT: AMENDMENT 9 TO MATERIALS LICENSE NO. SNM-2505 FOR THE CALVERT CLIFFS INDEPENDENT SPENT FUEL STORAGE INSTALLATION (TAC NO. L24350)

Dear Mr. Gellrich:

By letter dated June 15, 2009, as supplemented February 18, March 31, May 6, and September 1, 2010, Calvert Cliffs Nuclear Power Plant, LLC (CCNPP) submitted an application to the United States Nuclear Regulatory Commission (NRC) to amend Materials License No. SNM-2505 for the Calvert Cliffs Independent Spent Fuel Storage Installation (ISFSI) in accordance with Title 10 of the Code of Federal Regulations (CFR) 72.56, "Application for amendment of license." The application requested that Materials License No. SNM-2505 Technical Specifications (TS) be amended as follows:

- allow an increase in the limit on the neutron and gamma sources allowed for each fuel assembly,
- increase the maximum allowable assembly average burnup limit from 47,000 to 52,000 MWd/MTU for the NUHOMS®-32P DSC, and
- increase the allowable air temperature rise from the horizontal storage module (HSM) inlet to the HSM outlet from 60° F to 64° F.

Based on our review of your application, as revised and supplemented, the NRC staff (staff) has determined that there is reasonable assurance that: (i) the activities authorized by the amended license can be conducted without endangering the health and safety of the public and (ii) these activities will be conducted in compliance with the applicable regulations of 10 CFR Part 72. The staff has further determined that the issuance of the amendment will not be inimical to the common defense and security. The staff has reviewed CCNPP's justification for a categorical exclusion pursuant to 10 CFR 51.22(c) (11) and finds it acceptable. Therefore an environmental review and finding of no significant impact determination are not required for this amendment.

The NRC has approved the requested amendment. The amended license supersedes, in its entirety, Materials License No. SNM-2505, Amendment No. 8, dated October 30, 2009. Changes made to the attached Materials License are indicated by vertical lines in the right margin. Revised TS pages are also attached, and changes are also indicated by vertical lines in the right

margin. Also attached are the Safety Evaluation Report and the Federal Register Notice of Issuance for the amended license.

If you have any questions about this document, please contact me at (301) 492-3325.

Sincerely

/RA/
John Goshen, P.E., Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-8

TAC No.: L24350

Attachments:
1. Materials License No. SNM-2505
   Amendment 9 Order
2. Safety Evaluation Report
3. Federal Register Notice of Issuance of Amendment

cc: CCNPP Service List w/o Attachments

margin. Also attached are the Safety Evaluation Report and the Federal Register Notice of Issuance for the amended license.

If you have any questions about this document, please contact me at (301) 492-3325.

Sincerely

/RA/
John Goshen, P.E., Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-8

TAC No.: L24350

Attachments:
1. Materials License No. SNM-2505
   Amendment 9 Order
2. Safety Evaluation Report
3. Federal Register Notice of Issuance of Amendment

cc: CCNPP Service List w/o Attachments

Package ML102571621
File locations: G:\SFST\Calvert Cliffs ISFSI\Amend 9\Final\CC A9 transmittal ltr.docx **ML102571628**
\Calvert Cliffs Amend 9 order.doc **ML102571630**
\72-8 Amend 9 license.doc **ML102571632**
\calvert amendment 9 tech specs.docx **ML102571634**
\CC amendment 9 SER.docx **ML102571637**
\CC A9 FRN Issuance of Amendment.doc **ML102571639**

OFC	SFST	SFST	SFST	SFST	SFST	SFST
NAME	JGoshen	WWheatley	JSmith	MRahimi	MGordon	HLindsay
DATE	9/02/2010	9/10/2010	9/13/2010	9/13/2010	9/10/2010	9/03/2010
OFC	SFST	SFST	SFST	SFST		SFST
NAME	CBajwa	AIstar	DJackson	BTripathi		EJBenner
DATE	9/07 /2010	9/10/2010	9/13/2010	9/10/2010		09/14/2010

OFFICIAL RECORD COPY

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

cc:

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

Mark Geckle
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

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

Mr. Carey W. Fleming
Sr. Counsel - Nuclear Generation
Constellation Generation Group, LLC
750 E. Pratt Street, 17th Floor
Baltimore, MD 21202