

September 18, 2007

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 - AUDIT  
OF THE LICENSEE'S MANAGEMENT OF REGULATORY COMMITMENTS  
(TAC NOS. MD6133 AND MD6134)

Dear Mr. Spina:

An audit of the commitment management program was performed at the Calvert Cliffs Nuclear Power Plant (CCNPP) site on August 14, 2007. Based on the audit, the Nuclear Regulatory Commission (NRC) staff concludes; (1) CCNPP has established an effective commitment management program, (2) CCNPP has implemented NRC commitments on a timely basis, and (3) CCNPP has implemented an effective program for managing NRC commitment changes.

Details of the audit are described in the enclosed audit report. The NRC staff appreciates the resources that were made available by your staff for performing the audit. If you have any questions, I may be reached at (301) 415-1364.

Sincerely,

*/RA/*

Douglas V. Pickett, 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

Enclosure:  
As stated

cc w/encl: See next page

September 18, 2007

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 - AUDIT  
OF THE LICENSEE'S MANAGEMENT OF REGULATORY COMMITMENTS  
(TAC NOS. MD6133 AND MD6134)

Dear Mr. Spina:

An audit of the commitment management program was performed at the Calvert Cliffs Nuclear Power Plant (CCNPP) site on August 14, 2007. Based on the audit, the Nuclear Regulatory Commission (NRC) staff concludes; (1) CCNPP has established an effective commitment management program, (2) CCNPP has implemented NRC commitments on a timely basis, and (3) CCNPP has implemented an effective program for managing NRC commitment changes.

Details of the audit are described in the enclosed audit report. The NRC staff appreciates the resources that were made available by your staff for performing the audit. If you have any questions, I may be reached at (301) 415-1364.

Sincerely,

*/RA/*

Douglas V. Pickett, 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

Enclosure:  
As stated

cc w/encl: See next page

Distribution

PUBLIC                      LPL1-1                      RidsNrrDorLpl1-1                      RidsNrrPMDPickett  
RidsNrrLASLittle                      RidsOgcRp                      RidsAcrsAcnwMailCenter                      RidsRgn1MailCenter

Accession: ML072480261

OFFICE	LPLI-1	LPLI-1/PM	LPLI-1/LA	LPLI-1/BC
NAME	DWoodyatt	DPickett	SLittle	MKowal
DATE	09 /13/ 07	09 /13/ 07	09 /12/ 07	09 /18/ 07

**OFFICIAL RECORD COPY**

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

cc:

Mr. Michael J. Wallace, President  
Constellation Generation Group  
750 East Pratt Street  
Baltimore, MD 21202

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

Mr. John M. Heffley  
Senior Vice President and  
Chief Nuclear Officer  
Constellation Generation Group  
1997 Annapolis Exchange Parkway  
Suite 310  
Annapolis, MD 21401

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

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

AUDIT REPORT BY THE OFFICE OF NUCLEAR REACTOR REGULATION (NRR)  
REGULATORY COMMITMENTS MADE BY THE LICENSEE TO  
THE NUCLEAR REGULATORY COMMISSION (NRC)  
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

In SECY-00-045, "Acceptance of NEI [Nuclear Energy Institute] 99-04, 'Guidelines for Managing NRC Commitments,'" dated February 22, 2000, the NRC staff informed the Commission that it had found that NEI 99-04, "Guidelines for Managing NRC Commitment Changes," contains acceptable guidance for controlling regulatory commitments made by power reactor licensees to the NRC. A "regulatory commitment," as defined in NEI 99-04, is an explicit statement to take a specific action agreed to, or volunteered by, a licensee and submitted in writing on the docket to the NRC.

NEI 99-04 provides the NRC staff and its stakeholders with a common reference for handling regulatory commitments made by the licensees for commercial nuclear reactors to the NRC staff. According to NEI 99-04, a "regulatory commitment" is an explicit statement to take a specific action agreed to, or volunteered by a licensee, and submitted in writing on the docket to the NRC. Internal NRC staff guidance directs the NRR Project Manager to "audit the licensee's commitment management program by assessing the adequacy of the licensee's implementation of a sample of commitments made to the NRC in past licensing actions (amendments, reliefs, exemptions, etc.), and activities (bulletins, generic letters, etc.)." The audit is to be performed every 3 years.

2.0 AUDIT PROCEDURE AND RESULTS

Since no audit was performed before the issuance of NEI 99-04, the NRC staff defined the period covered by this audit to go back approximately 3 years. The audit was performed at the Calvert Cliffs Nuclear Power Plant Licensing Office in Lusby, Maryland, on August 14, 2007.

2.1 Verification of Licensee's Implementation of NRC Commitments

The primary focus of this part of the audit is to confirm that the licensee has implemented those commitments made to the NRC as part of past licensing activities. The staff examined a sample of completed commitments to ensure that they were implemented in a manner that

Enclosure

satisfied both the action committed to and the overall intent of the commitment. The licensee views a commitment as any action they agree to perform. The staff's findings are summarized in the attached table.

## 2.2 Verification of Licensee's Program for Managing NRC Commitment Changes

The primary focus of this part of the audit is the licensee's performance related to implementing controls for modifying or deleting commitments made to the NRC. The staff examined the licensee's commitment tracking system and the NRC commitment management procedures.

When the licensee incorporates commitments into plant procedures, the licensee includes a reference code to the document originating the commitment. If the licensee changes or deletes a commitment, the licensee's procedure directs their staff to use the Commitment Evaluation Form, incorporated from NEI 99-04 guidance.

The licensee submits Changes to Commitments Made to the NRC as an attachment to the annual revision of the Updated Final Safety Analysis Report. This attachment describes the original commitment, describes the change, and provides the justification for the change. The licensee has submitted 1 change notification to the NRC in the past 3 years. The commitment changes were submitted to the NRC by letter dated September 8, 2005. The NRC staff also examined a change letter dated December 19, 2002. The staff determined that the commitment changes were made in accordance with the licensee's programs and procedures. The licensee's technical evaluations adequately justified the change, and the NRC was informed of commitment changes that have safety or regulatory significance. The licensee's procedures for changing commitments follow the guidance of NEI 99-04.

## 3.0 CONCLUSION

Based on the above, the NRC staff concludes that; (1) the licensee had implemented or is tracking for future implementation regulatory commitments, and (2) the licensee had implemented an effective program to manage regulatory commitment changes.

## 4.0 LICENSEE PERSONNEL CONTACTED FOR THIS AUDIT

Betty Dough  
Patricia Furio  
Craig Neyman

Principal Contributor: Diana Woodyatt, NRR

Date: September 18, 2007

Attachment: As stated

AUDIT OF CONSTELLATION ENERGY MANAGEMENT OF

REGULATORY COMMITMENTS

AT CALVERT CLIFFS NUCLEAR POWER PLANT

PERFORMED AUGUST 14, 2007

LIST OF COMMITMENTS INCLUDED IN AUDIT

<b>Item No.</b>	<b>Commitment No.</b>	<b>Commitment Date</b>	<b>Description of Commitment</b>	<b>Status</b>	<b>Method of Closure</b>
1	CT200400031	09/21/2004	In order to verify that interim compensatory measures (ICM) for independent spent fuel storage installations (ISFSI) remain unchanged, the licensee must respond to the NRC in writing within 10 days of receipt of 09/10/2004 letter from NRC; Subject: Implementation Status of Independent Spent Fuel Storage Installation Interim Compensatory Measures (TAC Nos. MC2900 and MC2901)	Closed	Nuclear Security reviewed the ISFSI ICMs and determined that the activities found in the Security Plan and Contingency Plan for the ISFSI did not decrease the effectiveness of the ISFSI ICMs. A letter dated 09/27/2004 was sent to the NRC stating the effectiveness of the ISFSI ICMs.
2	CT200400033	09/28/2004	Amendment Nos. 269 and 245 remove Technical Specification (TS) 5.5.3, "Post-Accident Sampling System," from Calvert Cliffs Nuclear Power Plant Unit Nos. 1 and 2, respectively. Commitment is to review safety evaluation report deleting TS 5.5.3 and check the TS for accuracy.	Closed	Two groups within the Calvert Cliffs organization reviewed the safety evaluation and determined that the TS were correct.

Item No.	Commitment No.	Commitment Date	Description of Commitment	Status	Method of Closure
3	CT200400041	12/17/2004	Determine participants for January 14, 2005 NRC workshop on enhancing reactor mitigative measure and strategies. Email, to the NRC, the name, title and organization for participants granted unescorted access and the name, title, organization, date of birth, social security number, and finger print checks for all participants that have not been granted unescorted access. Inform NRC if participants need special accommodations December 27, 2004.	Closed	The names, titles, organizations, and details of participants were sent to the NRC.

Item No.	Commitment No.	Commitment Date	Description of Commitment	Status	Method of Closure
4	CT200500008	02/22/2005	<p>Relief request - Weld overlay and alternative techniques, Third Ten-Year Inservice Inspection Interval. (1) Demonstrate production weld within heat sink temperature limits by testing on a conservative mockup. (2) Regularly monitor production welds with contact pyrometers and/or temperature indicating crayons, record. (3) Use mockups to identify first weld layer where a 24% minimum Cr content is achieved over the base materials. (4) Production structural overlay performed with same welding parameters as mockups. (5) Ultrasonic inspection of weld overlay. (6) Monitor process temperatures, provide manual record, calibrate pyrometers in accordance with Measuring and Test Equipment (M&amp;TE) program. (7) Apply 360° full structural weld overlay to control crack growth, maintain weld integrity.</p>	Closed	<p>Parts 1, 3, 4, and 5 were discontinued from commitment. Part 2 was completed by chemical analysis by x-ray fluorescence performed on overlay layers on mockups; an analysis was performed above ferritic, Alloy 82/182, and austenitic stainless steel base metals; the second layer contained a Cr content greater than 24% and therefore credited toward design thickness. Part 6 was closed by documenting the temperatures taken during installation of the weld overlays and attaching a copy of the M&amp;TE calibration data. Part 7 was closed by documenting the installation of a 360° weld overlay on the hot leg drain nozzle and the cold leg letdown nozzle.</p>



Item No.	Commitment No.	Commitment Date	Description of Commitment	Status	Method of Closure
5	CT200500013	03/13/2005	Request for Approval of a Common Quality Assurance (QA) Program for Constellation Generation Group, LLC. - Review the Calvert Cliffs QA Policy and the QA Topical Report to ensure all commitments to Regulatory Guides and standards that are in the Calvert Cliffs QA Policy and not in the QA Topical Report are relocated to the Updated Final Safety Analysis Report.	Closed	The request for approval of a common QA Program was withdrawn 08/24/2005 in a letter from the licensee.
6	CT200500020	05/20/2005	Review Draft Regulatory Guide DG-8029, proposed Revision 2 to Regulatory Guide 8.7, "Instructions for Recording and Reporting Occupational Radiation Dose Data" and provided comments to the NRC via <a href="http://www.nrc.gov/what-we-do/regulatory/rulemaking.html">http://www.nrc.gov/what-we-do/regulatory/rulemaking.html</a> .	Closed	Calvert Cliffs Health Physics department reviewed the draft guide and concluded that the draft has no new requirements and was created for the purpose of providing greater clarification to the user when recording and reporting radiation dose data and there are no comments for the NRC.
7	CT200500028	08/23/2005	Provide input and respond to NRC Request for Additional Information regarding requirements related to positive reactivity additions from NRC letter dated 08/19/2005.	Closed	On 09/16/2005 Calvert Cliffs submitted a letter to the NRC with their response to the request for additional information.

Item No.	Commitment No.	Commitment Date	Description of Commitment	Status	Method of Closure
8	CT200500032	10/04/2005	Underwater welding of heated junction thermocouple (HJTC) probe holders. Perform mockup testing for welders using similar materials and under similar conditions as the production welds. Perform inspection of sample welds to the same requirements as the production welds. Verify that the weld procedure specification approved for use in welding HJTC probe holders to the upper guide structure (UGS) plate is qualified with tensile and bend tests in accordance with ASME Section IX, and the additional requirements of Code Case N-516-2. Verify complete within schedule.	Closed	Welder qualification completed through mockup testing and inspections performed as specified. A work order was developed to perform HJTC probe holders to the UGS plate in compliance with the requirements of ASME Section IX and Code Case N-516-G-3, Revision 2.
9	CT200500038	11/07/2005	Review NRC Regulatory Issue Summary (RIS) 2005-25, "Clarification of NRC Guidelines for Control of Heavy Loads," for applicability and program changes.	Closed	The RIS was reviewed for applicability to the Calvert Cliffs Reactor Vessel Head Replacement Project and the Calvert Cliffs Load Handling Program. The licensee determined that no changes were required to the Reactor Vessel Head Replacement Project or the Load Handling Program as a result of the RIS.