

March 2, 2004

Mr. George Vanderheyden  
Vice President - Calvert Cliffs Nuclear Power Plant  
Constellation Generation Group, LLC  
1650 Calvert Cliffs Parkway  
Lusby, Maryland 20657-4702

SUBJECT: ANNUAL ASSESSMENT LETTER - CALVERT CLIFFS NUCLEAR POWER  
PLANT (REPORT 05000317/2004001 AND 05000318/2004001)

Dear Mr. Vanderheyden:

On February 4, 2004, the NRC staff completed its end-of-cycle plant performance assessment of Calvert Cliffs Nuclear Power Plant. The end-of-cycle review involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period January 1 through December 31, 2003. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Overall, Calvert Cliffs Nuclear Power Plant operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct only baseline inspections at your facility through September 30, 2005.

While plant performance for the most recent quarter is within the Licensee Response Column of the Action Matrix, there were two safety significant findings during the first three quarters of the assessment cycle. Both findings were of low to moderate safety significance (White), and were common to both units. The first finding in the Public Radiation Safety Cornerstone was associated with the improper preparation of a package of radioactive materials for shipment. The second finding in the Emergency Preparedness Cornerstone involved the inability to actuate the offsite alert and notification siren system in a timely manner. Supplemental Inspections, conducted in December 2002 and January 2003, determined that your corrective actions to resolve these issues were sufficient to address the causes and prevent recurrence.

The enclosed inspection plan details the inspections scheduled through September 30, 2005. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

As you are aware, the NRC has issued several Orders and threat advisories to enhance security capabilities and improve guard force readiness since the terrorist attacks on September 11, 2001. We have conducted inspections to review your implementation of these requirements and have monitored your actions in response to changing threat conditions. For calendar year 2004, we plan to continue inspections of order implementation combined with newly developed portions of the security baseline inspection program.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact James M. Trapp, Chief, Projects Branch 1, at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

A. Randolph Blough, Director  
Division of Reactor Projects

Docket Nos. 50-317  
50-318  
License Nos. DPR-53  
DPR-69

Enclosure: Calvert Cliffs Inspection/Activity Plan

Mr. George Vanderheyden

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cc w/encl:     President, Calvert County Board of Commissioners  
                  J. M. Petro, Esquire, Constellation Energy Group, Inc.  
                  J. E. Silberg, Esquire, Shaw, Pittman, Potts and Trowbridge  
                  R. Godley, Director, Nuclear Regulatory Matters  
                  R. McLean, Manager, Nuclear Programs  
                  K. Burger, Esquire, Maryland People's Counsel  
                  P. Furio, Acting Director, Nuclear Regulatory Matters (CCNPP)  
                  Institute of Nuclear Power Operations (INPO)  
                  State of Maryland (2)

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<b>NAME</b>	<b>NPerry/NSP</b>		<b>JTrapp/JT</b>	<b>ABl ough/AB</b>				
<b>DATE</b>	<b>03/2/04</b>		<b>02/26/04</b>	<b>03/2/04</b>				

**OFFICIAL RECORD COPY**

**Calvert Cliffs**  
**Inspection / Activity Plan**  
**01/01/2004 - 09/30/2005**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>71111DS</b>	<b>- DESIGN INSPECTION</b>	<b>8</b>			
2	IP 71111.DS	Safety System Design and Performance Capability		01/12/2004	01/16/2004	Baseline Inspections
1	IP 71111.DS	Safety System Design and Performance Capability		01/26/2004	01/30/2004	Baseline Inspections
	<b>3/1 EXM</b>	<b>- OPERATOR LICENSING INITIAL EXAMS</b>	<b>3</b>			
1	U01517	CALVERT CLIFFS UNITS 1&2 INITIAL EXAM (3/1-5/04)		02/02/2004	02/06/2004	Not Applicable
1	U01517	CALVERT CLIFFS UNITS 1&2 INITIAL EXAM (3/1-5/04)		03/01/2004	03/05/2004	Not Applicable
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		02/02/2004	02/06/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		02/02/2004	02/06/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/02/2004	02/06/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		02/02/2004	02/06/2004	Baseline Inspections
	<b>7111107B</b>	<b>- HEAT SINK</b>	<b>2</b>			
1, 2	IP 7111107B	Heat Sink Performance		02/09/2004	02/13/2004	Baseline Inspections
	<b>93812</b>	<b>- 1/23/2004 UNIT 2 TRIP AND RELATED EVENTS</b>	<b>6</b>			
2	IP 93812	Special Inspection		02/17/2004	02/20/2004	Event Response Insp
2	IP 93812	Special Inspection		03/22/2004	03/26/2004	Event Response Insp
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		04/12/2004	04/16/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		04/12/2004	04/16/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/12/2004	04/16/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		04/12/2004	04/16/2004	Baseline Inspections
	<b>7111108P</b>	<b>- INSERVICE INSPECTION-UNIT 1</b>	<b>4</b>			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-02)		04/12/2004	04/16/2004	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		04/19/2004	04/23/2004	Baseline Inspections
	<b>71111.05</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
1, 2	IP 7111105T	Fire Protection		05/10/2004	05/14/2004	Baseline Inspections
1, 2	IP 7111105T	Fire Protection		05/24/2004	05/28/2004	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		06/14/2004	06/18/2004	Baseline Inspections
	<b>71114</b>	<b>- EP PROGRAM INSPECT &amp; PI VERIF</b>	<b>1</b>			
1, 2	IP 7111402	Alert and Notification System Testing		07/19/2004	07/23/2004	Baseline Inspections

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

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				Start	End	
	<b>71114</b>	<b>- EP PROGRAM INSPECT &amp; PI VERIF</b>	<b>1</b>			
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/19/2004	07/23/2004	Baseline Inspections
	<b>7112202</b>	<b>- PUB RAD SAFETY - RADWASTE</b>	<b>1</b>			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		07/26/2004	07/30/2004	Baseline Inspections
	<b>71130</b>	<b>- SECURITY</b>	<b>3</b>			
1, 2	IP 7113001	Access Authorization		09/07/2004	09/10/2004	Baseline Inspections
1, 2	IP 7113002	Access Control		09/07/2004	09/10/2004	Baseline Inspections
1, 2	IP 7113008	Fitness For Duty Program		09/07/2004	09/10/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/07/2004	09/10/2004	Baseline Inspections
	<b>7111401</b>	<b>- EXERCISE EVALUATION</b>	<b>2</b>			
1, 2	IP 7111401	Exercise Evaluation		09/27/2004	10/01/2004	Baseline Inspections
	<b>7112203</b>	<b>- PUB RAD SAFETY - REMP</b>	<b>1</b>			
1, 2	IP 7112203	Radiological Environmental Monitoring Program		11/15/2004	11/19/2004	Baseline Inspections
	<b>711112B</b>	<b>- MAINTENANCE RULE</b>	<b>1</b>			
1, 2	IP 711112B	Maintenance Effectiveness		12/06/2004	12/10/2004	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		12/13/2004	12/17/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		12/13/2004	12/17/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/13/2004	12/17/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		12/13/2004	12/17/2004	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		01/31/2005	02/04/2005	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		01/31/2005	02/04/2005	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/31/2005	02/04/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		01/31/2005	02/04/2005	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		02/21/2005	02/25/2005	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		02/21/2005	02/25/2005	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/21/2005	02/25/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		02/21/2005	02/25/2005	Baseline Inspections

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	<b>7111108P</b>	<b>- INSERVICE INSPECTION - U2</b>	<b>2</b>			
2	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-02)		03/28/2005	04/01/2005	Safety Issues
2	IP 7111108P	Inservice Inspection Activities - PWR		03/28/2005	04/01/2005	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		07/25/2005	07/29/2005	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		07/25/2005	07/29/2005	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/25/2005	07/29/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/25/2005	07/29/2005	Baseline Inspections
	<b>7112201</b>	<b>- PUB RAD SAFETY - RETS</b>	<b>1</b>			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		08/08/2005	08/12/2005	Baseline Inspections
	<b>7111401</b>	<b>- EXERCISE EVALUATION &amp; EP PI VERIFICATION</b>	<b>1</b>			
1, 2	IP 7111401	Exercise Evaluation		09/26/2005	09/30/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/26/2005	09/30/2005	Baseline Inspections