March 2, 2005

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 05000317/2005001 AND 05000318/2005001)

Dear Mr. Vanderheyden:

On February 10, 2005, the NRC staff completed its end-of-cycle plant performance assessment of the Calvert Cliffs Nuclear Power Plant. The end-of-cycle review for Calvert Cliffs involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. 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.

This performance review and enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Overall, Calvert Cliffs operated in a manner that preserved public health and safety, and fully met all cornerstone objectives. Plant performance at Unit 1 for the most recent quarter, as well as for the first three quarters of the assessment period, was within the Licensee Response Column of the 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).

Plant performance at Unit 2 for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix, based on one finding of low to moderate safety significance (White) in the Mitigating Systems cornerstone regarding a relay failure that caused the steam dump valves to remain full open following a reactor trip in early 2004. This finding was identified during the second quarter of this assessment cycle. A Supplemental Inspection, conducted in January 2005, determined that the root causes for the performance deficiencies were understood and that completed and planned corrective actions were reasonable to address the related causes. Therefore, this finding will only be considered in assessing plant performance for a total of four quarters in accordance with the guidance in IMC 0305, "Operating Reactor Assessment Program."

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. Planned inspections include a full participation

Mr. George Vanderheyden

emergency preparedness exercise inspection (September 2005), and a reactor vessel head replacement inspection (February 2006). 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 nine months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

In accordance with 10 CFR 2.390 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 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, Region I

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

Enclosure: Calvert Cliffs Inspection/Activity Plan

cc w/encl:

M. J. Wallace, President, Constellation Generation
J. M. Heffley, Senior Vice President and Chief Nuclear Officer
President, Calvert County Board of Commissioners
C. W. Fleming, Sr., Counsel, Constellation Generation Group, LLC
Director, Nuclear Regulatory Matters
R. McLean, Manager, Nuclear Programs
K. Burger, Esquire, Maryland People's Counsel
State of Maryland (2)
Institute of Nuclear Power Operations (INPO)

Mr. George Vanderheyden

(via E-mail) Distribution w/encl: S. Collins, RA J. Wiggins, DRA S. Lee, RI EDO Coordinator R. Laufer, NRR R. Guzman, PM, NRR D. Skay, PM, NRR P. Tam, PM, NRR (Backup) J. Trapp, DRP N. Perry, DRP M. Giles, DRP, Senior Resident Inspector J. O'Hara, DRP - Resident Inspector C. Newgent - Resident OA D. Screnci, PAO N. Sheehan, PAO **DRS** Director **DRS Deputy Director DRS Branch Chiefs RidsNrrDipmlipb** Region I Docket Room (with concurrences)

SISP Review Complete: nsp (Reviewer's Initials)

DOCUMENT NAME: G:\DRP\BRANCH1\2004 ROP 5 EOC REVIEW\End-of-cycle Letters\Calvert Cliffs 2005 End-of-Cycle Letter.wpd

After declaring this document "An Official Agency Record" it <u>will</u> be released to the Public. <u>To receive a copy of this document, indicate in the box</u>: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	NPerry/	JTrapp/	ABlough		
DATE	02/23/05	02/23/05	03/02/05		

OFFICIAL RECORD COPY

Page 1 of 2

03/01/2005 16:39:15 Report 22

Calvert Cliffs Inspection / Activity Plan 03/01/2005 - 09/30/2006

Number	Inspection Activ	ity	No. of Staff on Site	Planne Start	d Dates End	Inspection Type
	-	CC RAD SAFETY	 1	L		
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/28/2005	03/04/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		02/28/2005	03/04/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/28/2005	03/04/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		02/28/2005	03/04/2005	Baseline Inspections
	7111108P - IN	SERVICE INSPECTION - U2	2			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/07/2005	03/11/2005	Baseline Inspections
	7111112B - M	AINTENANCE RULE	1			
1, 2	IP 7111112B	Maintenance Effectiveness		05/09/2005	05/13/2005	Baseline Inspections
	7112201 - Pl	JB RAD SAFETY - RETS	1			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		07/25/2005	07/29/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/25/2005	07/29/2005	Baseline Inspections
	7111401 - EX	XERCISE EVALUATION & EP PI VERIFICATION	3			
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
	71121 - O	CC RAD SAFETY	1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		10/10/2005	10/14/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/10/2005	10/14/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/10/2005	10/14/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/10/2005	10/14/2005	Baseline Inspections
	71152B - PI	&R	5			
1, 2	IP 71152B	Identification and Resolution of Problems		10/31/2005	11/04/2005	Baseline Inspections
1, 2	IP 71152B	Identification and Resolution of Problems		11/14/2005	11/18/2005	Baseline Inspections
		JB RAD SAFETY - RADWASTE	1			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		10/24/2005	10/28/2005	Baseline Inspections
		D REQUAL PROGRAM INSPECTION	2			
1,2	IP 7111111B	Licensed Operator Requalification Program		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7111111B	Licensed Operator Requalification Program		12/05/2005	12/16/2005	Baseline Inspections
		1 REACTOR VESSEL HEAD REPLACEMENT	1			
1	IP 71007	Reactor Vessel Head Replacement Inspection		01/01/2006	02/28/2006	Other Routine
	SSDI - SS		6			
1,2	IP 7111121	Safety System Design and Performance Capability		01/09/2006	01/13/2006	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		01/23/2006	01/27/2006	Baseline Inspections
1,2	71121 - O	CC RADIATION SAFETY Access Control to Radiologically Significant Areas	1	01/30/2006	02/03/2006	Baseline Inspections

This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures. Page 2 of 2

03/01/2005 16:39:15 Report 22

Calvert Cliffs Inspection / Activity Plan 03/01/2005 - 09/30/2006

Unit			No. of Staff	Planned Dates		Inspection	
Number	Inspection Activity	Title	on Site	Start	End	Туре	
71121 - OCC RADIATION SAFETY 1							
1,2	IP 7112102	ALARA Planning and Controls		01/30/2006	02/03/2006	Baseline Inspections	
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/30/2006	02/03/2006	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		01/30/2006	02/03/2006	Baseline Inspections	
	7111107B - HEAT	SINK	2				
1, 2	IP 7111107B	Heat Sink Performance		02/06/2006	02/10/2006	Baseline Inspections	
	7111108P - INSER	RVICE INSPECTION - UNIT 1	1				
1	IP 7111108P	Inservice Inspection Activities - PWR		03/13/2006	03/17/2006	Baseline Inspections	
	71121 - OCC F	RAD SAFETY	1				
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		04/17/2006	04/21/2006	Baseline Inspections	
1, 2	IP 7112102	ALARA Planning and Controls		04/17/2006	04/21/2006	Baseline Inspections	
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/17/2006	04/21/2006	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		04/17/2006	04/21/2006	Baseline Inspections	
	7/10 EXM - OPER	ATOR LICENSING INITIAL EXAMS	3				
1	U01585	CALVERT CLIFFS INITIAL EXAM (3/06)		06/12/2006	06/16/2006	Not Applicable	
1	U01585	CALVERT CLIFFS INITIAL EXAM (3/06)		07/10/2006	07/14/2006	Not Applicable	
	71114 - EP PR	GM INSP & PIO VERFICATION	1				
1, 2	IP 7111402	Alert and Notification System Testing		07/10/2006	07/14/2006	Baseline Inspections	
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		07/10/2006	07/14/2006	Baseline Inspections	
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/10/2006	07/14/2006	Baseline Inspections	
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/10/2006	07/14/2006	Baseline Inspections	
1,2	IP 71151	Performance Indicator Verification		07/10/2006	07/14/2006	Baseline Inspections	
	7112203 - PUB F	RAD SAFETY - REMP	1				
1,2	IP 7112203	Radiological Environmental Monitoring Program		07/31/2006	08/04/2006	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		07/31/2006	08/04/2006	Baseline Inspections	
	MODS - MODS	6 & 50.59	3				
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		09/11/2006	09/15/2006	Baseline Inspections	
1, 2	IP 7111117B	Permanent Plant Modifications		09/11/2006	09/15/2006	Baseline Inspections	
	71121 - OCC F	RAD SAFETY	1				
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/11/2006	09/15/2006	Baseline Inspections	
1,2	IP 7112102	ALARA Planning and Controls		09/11/2006	09/15/2006	Baseline Inspections	
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/11/2006	09/15/2006	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		09/11/2006	09/15/2006	Baseline Inspections	

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