

August 30, 2005

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - CALVERT
CLIFFS NUCLEAR POWER PLANT

Dear Mr. Vanderheyden:

On August 2, 2005, the NRC staff completed its performance review of Calvert Cliffs Nuclear Power Plant for the first half of the calendar year 2005 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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.

This performance review and the 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 a resultant inspection plan.

Plant performance for the most recent quarter at Calvert Cliffs Units 1 and 2 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 reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting non-baseline inspections which include reactor vessel head replacement inspections at both units.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2007. The plan includes those inspections which are associated with the reactor vessel head replacement activity. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well 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 end-of-cycle review.

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 a 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> (Public Electronic Reading Room).

Mr. George Vanderheyden

2

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 me at (610) 337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

James M. Trapp, Chief
Projects Branch 1
Division of Reactor Projects

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, Senior 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)

Mr. George Vanderheyden

3

Distribution w/encl: (via E-mail)

S. Collins, RA
 M. Dapas, DRA
 S. Lee, RI EDO Coordinator
 R. Laufer, NRR
 P. Milano, PM, NRR
 R. Guzman, PM, NRR (Backup)
 J. Trapp, DRP
 C. Khan, DRP
 T. Setzer, DRP
 M. Patel, DRP
 H. Jones, DRP
 M. Giles, DRP, Senior Resident Inspector
 J. O'Hara, DRP, Resident Inspector
 C. Newgent, Resident OA
 Region I Docket Room (with concurrences)
 D. Screnci, PAO
 N. Sheehan, PAO
 DRS Director
 DRS Deputy Director
 DRS Branch Chiefs
RidsNrrDipmlipb@nrc.gov
 Institute of Nuclear Power Operations (INPO)

DOCUMENT NAME: S:\ROP-6 Mid-Cycle Review\2005 Mid-Cycle Letters\Calvert Cliffs ROP-6 Mid-Cycle Assessment Letter.wpd

SISP Review Complete: JMT (Reviewer's Initials)

After declaring this document "An Official Agency Record" it will/will not be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RI/DRP		RI/DRP		/	
NAME	CKhan		JTrapp			
DATE	08/16/05		08/30/05		08/ /05	

OFFICIAL RECORD COPY

Calvert Cliffs
Inspection / Activity Plan
08/01/2005 - 03/31/2007

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	7111401	- EXERCISE EVALUATION & EP PI VERIFICATION	5			
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
	7111111B	- LO REQUAL PROGRAM INSPECTION&P/F RESULTS	4			
1,2	IP 7111111B	Licensed Operator Requalification Program		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7111111B	Licensed Operator Requalification Program		12/12/2005	12/16/2005	Baseline Inspections
	71121	- OCC 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	4			
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
	7112202	- PUB RAD SAFETY - RADWASTE	1			
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/24/2005	10/28/2005	Baseline Inspections
	71007	- U1 REACTOR VESSEL HEAD REPLACEMENT	1			
1	IP 71007	Reactor Vessel Head Replacement Inspection		01/09/2006	03/31/2006	Other Routine
	7111107B	- HEAT SINK	2			
1,2	IP 7111107B	Heat Sink Performance		02/06/2006	02/10/2006	Baseline Inspections
	71121	- OCC RADIATION SAFETY	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/27/2006	03/03/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		02/27/2006	03/03/2006	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/27/2006	03/03/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		02/27/2006	03/03/2006	Baseline Inspections
	7111108P	- INSERVICE INSPECTION - UNIT 1	2			
1	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		02/27/2006	03/03/2006	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		02/27/2006	03/03/2006	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		03/13/2006	03/17/2006	Baseline Inspections
	71121	- OCC 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

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

Calvert Cliffs
Inspection / Activity Plan
08/01/2005 - 03/31/2007

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	7/10 EXM - OPERATOR LICENSING INITIAL EXAMS		3			
1	U01585	CALVERT CLIFFS INITIAL EXAM (3/06)		07/24/2006	07/28/2006	Not Applicable
1	U01585	CALVERT CLIFFS INITIAL EXAM (3/06)		08/28/2006	09/01/2006	Not Applicable
	TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION		3			
1,2	IP 7111105T	Fire Protection [Triennial]		06/05/2006	06/09/2006	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		06/19/2006	06/23/2006	Baseline Inspections
	71114 - EP PRGM INSP & PIO VERIFICATION		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
	7111121 - SSD&PC		6			
1,2	IP 7111121	Safety System Design and Performance Capability		07/31/2006	08/04/2006	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		08/14/2006	08/18/2006	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		08/21/2006	08/25/2006	Baseline Inspections
	7112203 - PUB RAD SAFETY - REMP		1			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/31/2006	08/04/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		07/31/2006	08/04/2006	Baseline Inspections
	71121 - OCC 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
	71007 - U2 RX VESSEL HEAD REPLACEMENT		1			
2	IP 71007	Reactor Vessel Head Replacement Inspection		01/01/2007	02/28/2007	Other Routine
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/15/2007	01/19/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		01/15/2007	01/19/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/15/2007	01/19/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/15/2007	01/19/2007	Baseline Inspections
	7111108P - IN SERVICE INSPECTION		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/05/2007	03/09/2007	Baseline Inspections
	71121 - OCC RAD PROT		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/05/2007	03/09/2007	Baseline Inspections

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

Calvert Cliffs
Inspection / Activity Plan
08/01/2005 - 03/31/2007

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71121	- OCC RAD PROT	1			
1,2	IP 7112102	ALARA Planning and Controls		03/05/2007	03/09/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/05/2007	03/09/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		03/05/2007	03/09/2007	Baseline Inspections
	MODS	- MODS & 50.59	3			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		03/26/2007	03/30/2007	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		03/26/2007	03/30/2007	Baseline Inspections