



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

March 4, 2009

Mr. James A. Spina, Vice President
Calvert Cliffs Nuclear Power Plant, Inc.
Constellation Generation Group, LLC
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657-4702

**SUBJECT: ANNUAL ASSESSMENT LETTER - CALVERT CLIFFS NUCLEAR POWER
PLANT (REPORTS 05000317/2009001 AND 05000318/2009001)**

Dear Mr. Spina:

On February 9, 2009, the NRC staff completed its performance review of Calvert Cliffs Nuclear Power Plant (Calvert Cliffs). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. 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 enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only—Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, Calvert Cliffs Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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). Although plant performance was within the Licensee Response column, the final significance of a finding related to an inaccurate emergency action level (EAL) threshold is still under review. A preliminary White finding was issued on February 26, 2009, as part of the Significance Determination Process. Our final significance determination for this finding will be provided to you in a separate correspondence and may result in a change to the NRC's assessment of plant performance and the inspection plan. Based on our current assessment of performance for Units 1 and 2, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2010. In addition to baseline inspections, we plan on conducting an independent spent fuel storage installation inspection. 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 mid-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 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 me at 610-337-5233 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/ Original Signed By:

Glenn T. Dentel, 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. Wallace, Vice-Chairman, Constellation Energy
H. Barron, President, CEO, & Chief Nuclear Officer, Constellation Energy Nuclear Group, LLC
W. Parran, President, Calvert County Board of Commissioners
C. Fleming, Esquire, Sr. Counsel – Nuclear Generation Group, LLC
J. Gaines, Director, Licensing, Calvert Cliffs Nuclear Power Plant
S. Gray, Program Manager, Power Plant Assessment Program, Maryland Department of Natural Resources
K. Burger, Esquire, Maryland People's Counsel
P. Birnie, Esquire, Co-Director, Maryland Safe Coalition
R. Hickok, NRC Technical Training Center
L. Larragoite, Manager, Nuclear Safety and Security, Calvert Cliffs Nuclear Power Plant
G. Detter, Manager, Nuclear Safety and Security, Constellation Energy
M. Griffen, Maryland Department of the Environment
S. Pattison, SLO (2)

J. Spina

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Glenn T. Dentel, Chief
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Division of Reactor Projects

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License Nos. DPR-53, DPR-69

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OFFICE	RI/DRP	RI/DRP						
NAME	JHawkins/jrh*	GDentel/gtd*						
DATE	02/23/09	02/23/09						

*See prior concurrence

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Calvert Cliffs
Inspection / Activity Plan
01/01/2009 - 06/30/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
71121 - OCC RAD SAFETY					1
1,2	01/19/2009	01/23/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	01/19/2009	01/23/2009	IP 7112102	ALARA Planning and Controls	
1,2	01/19/2009	01/23/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1,2	01/19/2009	01/23/2009	IP 71151-OR01	Occupational Exposure Control Effectiveness	
711108P - U2 INSERVICE INSPECTION					1
2	02/23/2009	02/27/2009	IP 7111108P	Inservice Inspection Activities - PWR	
2	03/02/2009	03/06/2009	IP 7111108P	Inservice Inspection Activities - PWR	
TI-172 - U2 TI-172 RCS DISSIMILAR METAL WELDS					1
2	03/02/2009	03/06/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
71121 - OCC RAD SAFETY					1
1,2	03/02/2009	03/06/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/02/2009	03/06/2009	IP 7112102	ALARA Planning and Controls	
1,2	03/02/2009	03/06/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1,2	03/02/2009	03/06/2009	IP 71151-OR01	Occupational Exposure Control Effectiveness	
ISFSI - ISFSI INSPECTION - ANNUAL SAMPLE					2
1	04/01/2009	06/30/2009	IP 60855	Operation Of An ISFSI	
7112202 - PUB RAD SAFETY - RADWASTE & ISFSI					1
1,2	06/15/2009	06/19/2009	IP 60855	Operation Of An ISFSI	
1,2	06/15/2009	06/19/2009	IP 7112202	Radioactive Material Processing and Transportation	
7111121 - CDBI					6
1,2	08/03/2009	08/07/2009	IP 7111121	Component Design Bases Inspection	
1,2	08/17/2009	08/21/2009	IP 7111121	Component Design Bases Inspection	
1,2	08/24/2009	08/28/2009	IP 7111121	Component Design Bases Inspection	
7112203 - PUB RAD SAFETY - REM P					1
1,2	08/03/2009	08/07/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1,2	08/03/2009	08/07/2009	IP 71151-PR01	RETS/ODCM Radiological Effluent	
7111111B - BIENNIAL REQUAL INSP WITH P/F RESULTS					3
1,2	11/16/2009	11/20/2009	IP 7111111B	Licensed Operator Requalification Program	
EP EXER - EP EXERCISE INSPECTION					2
1,2	10/18/2009	10/24/2009	IP 7111401	Exercise Evaluation	
1,2	10/18/2009	10/24/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	10/18/2009	10/24/2009	IP 71151-EP01	Drill/Exercise Performance	
1,2	10/18/2009	10/24/2009	IP 71151-EP02	ERO Drill Participation	
1,2	10/18/2009	10/24/2009	IP 71151-EP03	Alert & Notification System	

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

Calvert Cliffs
Inspection / Activity Plan
01/01/2009 - 06/30/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71152B - PI&R BIENNIAL TEAM		7
1,2	11/02/2009	11/06/2009	IP 71152B	Identification and Resolution of Problems	
1,2	11/16/2009	11/20/2009	IP 71152B	Identification and Resolution of Problems	
			71121 - OCC RAD SAFETY		1
1,2	12/07/2009	12/11/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	12/07/2009	12/11/2009	IP 7112102	ALARA Planning and Controls	
1,2	12/07/2009	12/11/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1,2	12/07/2009	12/11/2009	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			71121 - OCC RADIATION SAFETY		1
1,2	01/25/2010	01/29/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	01/25/2010	01/29/2010	IP 7112102-7112102R	ALARA - Required	
			71121 - OCC RADIATION SAFETY		1
1,2	03/01/2010	03/05/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/01/2010	03/05/2010	IP 7112102	ALARA Planning and Controls	
1,2	03/01/2010	03/05/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			7111108P - UNIT 1 INSERVICE INSPECTION		1
1	03/01/2010	03/12/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			8/2EXAM - OPERATOR LICENSING INITIAL EXAMS		4
1	06/28/2010	07/02/2010	U01770	FY10 - CALVERT CLIFFS UNIT 1&2 INITIAL OPERATOR LICENSING EXAM	
			71121.03 - RAD MONITORING INSTRUMENTS		1
1,2	05/03/2010	05/07/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			2515/173 - INDUSTRY GROUND WATER INITIATIVE		1
1,2	06/07/2010	06/11/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	

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