

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

March 3, 2008

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 05000317/2008001 AND 05000318/2008001)

Dear Mr. Spina:

On February 12, 2008, the U.S. Nuclear Regulatory Commission (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, 2007. 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 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.

While plant performance for the most recent quarter was within the Licensee Response column of the Action Matrix, Calvert Cliffs Unit 1 was within the Regulatory Response column of the Action Matrix during the first two quarters of the assessment cycle, based on one finding of low to moderate safety significance (White) identified in September 2006. The White finding involved an incorrect circuit breaker setting that impacted operability of the "1A" emergency diesel generator. The NRC has completed a supplemental inspection in accordance with inspection procedure 95001. The results of that inspection were provided in NRC Supplemental Inspection Report 05000317/2007006. As a result of that review, this finding was closed and no longer considered for plant assessment purposes, effective July 1, 2007.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2009. In addition to baseline inspections, we plan on conducting an independent spent fuel storage installation (ISFSI) 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

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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 Glenn Dentel of my staff at 610-337-5233, with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

David C. Lew, 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, Esq., Senior Counsel, Nuclear Generation Group

J. Gaines, Director, Licensing

Director, Nuclear Regulatory Matters

R. McLean, Manager, Nuclear Programs

K. Burger, Esquire, Maryland People's Counsel

R. Hickok, NRC Technical Training Center

S. Pattison, SLO (2)

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- S. Pattison, SLO (2)

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See next page

SUNSI Review Complete: BAB (Reviewer's Initials)

DOCUMENT NAME: S:\ROP-8 EOC Review\Branch 1\Calvert Cliffs Annual Assessment Ltr.doc After declaring this document "An Official Agency Record" it <u>will</u> 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

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NAME	BBickett/BAB		GDentel/BAB for	DLew/DCL		
DATE	02/26/08		02/27/08	02/29/08		

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Calvert Cliffs

Inspection / Activity Plan 01/01/2008 - 06/30/2009

Unit				No. of Staff	Planned Dates		Inspection
Number	Inspection A	ctivity	Title	on Site	Start	End	Туре
	6/16 EXM	- INITIAI	OPERATOR LICENSING EXAMS	4			
1	U01633		CALVERT CLIFFS UNIT 1 & 2 INITIAL EXAM (FY08)		05/19/2008	05/23/2008	Not Applicable
1	U01633		CALVERT CLIFFS UNIT 1 & 2 INITIAL EXAM (FY08)		06/16/2008	06/20/2008	Not Applicable
	71121	- OCC R	AD SAFETY	1			
1, 2	IP 7112101		Access Control to Radiologically Significant Areas		02/25/2008	02/29/2008	Baseline Inspections
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		02/25/2008	02/29/2008	Baseline Inspections
1, 2	IP 71151		Performance Indicator Verification		02/25/2008	02/29/2008	Baseline Inspections
	7111108P	- U1 INS	ERVICE INSPECTION	1			
1	IP 7111108F	•	Inservice Inspection Activities - PWR		02/25/2008	02/29/2008	Baseline Inspections
	TI-172	- U1 TI-1	72 RCS DISSIMILIAR METAL WELDS	1			
1	IP 2515/172		Reactor Coolant System Dissimiliar Metal Butt Welds		02/25/2008	02/29/2008	Generic Safety Inspection
	7111108P	- U1 INS	ERVICE INSPECTION	1			
1	IP 7111108F	•	Inservice Inspection Activities - PWR		03/03/2008	03/07/2008	Baseline Inspections
	TI-166	- CONTA	AINMENT SUMP MODIFICATION INSPECTION	1			
1	IP 2515/166		Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		03/03/2008	03/09/2008	Safety Issues
	7112103	- OCC R	AD SAFETY - INSTRUMENTS	1			
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		05/19/2008	05/23/2008	Baseline Inspections
1, 2	IP 71151		Performance Indicator Verification		05/19/2008	05/23/2008	Baseline Inspections
	TI 171	- TI 171		3			
1, 2	IP 2515/171		Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		05/19/2008	05/23/2008	Generic Safety Inspection
	7111121	- CDBI		6			
1, 2	IP 7111121		Component Design Bases Inspection		06/02/2008	06/06/2008	Baseline Inspections
1, 2	IP 7111121		Component Design Bases Inspection		06/16/2008	06/20/2008	Baseline Inspections
1, 2	IP 7111121		Component Design Bases Inspection		06/23/2008	06/27/2008	Baseline Inspections
	7112201	- PUB R	AD SAFETY - RETS	1			
1, 2	IP 7112201		Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/16/2008	06/20/2008	Baseline Inspections
1, 2	IP 71151		Performance Indicator Verification		06/16/2008	06/20/2008	Baseline Inspections
	71121	- OCC R	AD SAFETY	1			
1, 2	IP 7112101		Access Control to Radiologically Significant Areas		08/25/2008	08/29/2008	Baseline Inspections
1, 2	IP 7112102		ALARA Planning and Controls		08/25/2008	08/29/2008	Baseline Inspections
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		08/25/2008	08/29/2008	Baseline Inspections
1, 2	IP 71151		Performance Indicator Verification		08/25/2008	08/29/2008	Baseline Inspections
	ISFSI	- ISFSI -	ANNUAL SAMPLE	1			
1	IP 60855		Operation Of An ISFSI		08/25/2008	08/29/2008	Other Routine

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Unit			No. of Staff	Planned Dates		Inspection		
Number	Inspection Activity		on Site	Start	End	Туре		
71121 - OCC RAD SAFETY 1								
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		11/03/2008	11/07/2008	·		
1, 2	IP 7112102	ALARA Planning and Controls		11/03/2008	11/07/2008	Baseline Inspections		
1, 2	IP 71151	Performance Indicator Verification		11/03/2008	11/07/2008	Baseline Inspections		
		ROGRAM INSP	2					
1, 2	IP 7111402	Alert and Notification System Testing		11/17/2008	11/21/2008	EP Baseline Inspection		
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		11/17/2008	11/21/2008	EP Baseline Inspection		
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/17/2008		EP Baseline Inspection		
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		11/17/2008	11/21/2008	EP Baseline Inspection		
1, 2	IP 71151-EP01	Drill/Exercise Performance		11/17/2008	11/21/2008	Baseline Inspections		
1, 2	IP 71151-EP02	ERO Drill Participation		11/17/2008	11/21/2008	Baseline Inspections		
1, 2	IP 71151-EP03	Alert & Notification System		11/17/2008	11/21/2008	Baseline Inspections		
	71121 - OCC	RAD SAFETY	1					
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		01/19/2009	01/23/2009	Baseline Inspections		
1, 2	IP 7112102	ALARA Planning and Controls		01/19/2009	01/23/2009	Baseline Inspections		
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/19/2009	01/23/2009	Baseline Inspections		
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		01/19/2009	01/23/2009	Baseline Inspections		
	71121 - OCC	RAD SAFETY	1					
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/02/2009	03/06/2009	Baseline Inspections		
1, 2	IP 7112102	ALARA Planning and Controls		03/02/2009	03/06/2009	Baseline Inspections		
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/02/2009	03/06/2009	Baseline Inspections		
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/02/2009	03/06/2009	Baseline Inspections		
	7111108P - U2 IN	NSERVICE INSPECTION	1					
2	IP 7111108P	Inservice Inspection Activities - PWR		03/02/2009	03/06/2009	Baseline Inspections		
	TI-172 - TI-17	2 RCS DISSIMILIAR METAL WELDS	1					
2	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds		03/02/2009	03/06/2009	Generic Safety Inspect		
	7111108P - U2 IN	NSERVICE INSPECTION	1					
2	IP 7111108P	Inservice Inspection Activities - PWR		03/16/2009	03/20/2009	Baseline Inspections		
	ISFSI - ISFS	I INSPECTION - ANNUAL SAMPLE	2					
1	IP 60855	Operation Of An ISFSI		04/01/2009	06/30/2009	Other Routine		
	MODS - PER	MANENT PLANT MODIFICATIONS	3					
1, 2	IP 7111117B	Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications		04/20/2009	04/24/2009	Baseline Inspections		
1,2	IP 7111117B	Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications		05/04/2009	05/08/2009	Baseline Inspections		
	7111107B - HEA	T SINK INSP	1					
1, 2	IP 7111107B	Heat Sink Performance		06/01/2009	06/05/2009	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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Unit Number	Inspection Activity	Title	No. of Staff on Site	Planne Start	d Dates End	Inspection Type
	7112202 - PUB R	AD SAFETY - RADWASTE	1			

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This report shows only on-site and announced inspection procedures.

Radioactive Material Processing and Transportation IP 7112202

06/15/2009 06/19/2009 Baseline Inspections