



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 2, 2007

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

SUBJECT: ANNUAL ASSESSMENT LETTER - CALVERT CLIFFS NUCLEAR POWER
PLANT (REPORT 05000317/2007001 AND 05000318 /2007001)

Dear Mr. Spina:

On February 12, 2007, 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, 2006. 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 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 Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Unit 1 performance for the third and fourth quarters of 2006 was within the Regulatory Response column of the NRC's Action Matrix, 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 supplemental inspection for this finding was completed in January 2007 and based on the positive results, this finding will be removed from consideration in the performance assessment process after the second quarter of 2007. All PIs for Unit 1 indicate performance at a level requiring no additional NRC oversight (Green). Unit 2 performance for the most recent quarter, as well as for the first three quarters of 2006, was within the Licensee Response Column of the NRC's Action Matrix, based on all Green inspection findings and all PIs. Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at Units 1 and 2. We also plan to conduct additional ROP inspections based on your planned Unit 2 reactor vessel head replacement and containment sump modification.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. 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 this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Brian McDermott 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

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
J. Gaines, Director, Licensing
Director, Nuclear Regulatory Matters
R. McLean, Manager, Nuclear Programs
K. Burger, Esquire, Maryland People's Counsel
P. Birnie, Esquire, Co-Director, Maryland Safe Energy Coalition
R. Hickok, NRC Technical Training Center
State of Maryland (2)

Calvert Cliffs
Inspection / Activity Plan
01/01/2007 - 06/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71007	- U2 RX HEAD REPLACEMENT	2			
2	IP 71007	Reactor Vessel Head Replacement Inspection		01/08/2007	04/13/2007	Other Routine
2	IP 71007	Reactor Vessel Head Replacement Inspection		01/09/2007	01/12/2007	Other Routine
2	IP 71007	Reactor Vessel Head Replacement Inspection		04/01/2007	04/13/2007	Other Routine
	ISFSI	- ISFSI CONSTRUCTION INSPECTION	1			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		01/08/2007	01/12/2007	Other Routine
	SUP	- SUP EDG	1			
1	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		01/22/2007	01/26/2007	Supplemental Program
	71121	- OCC RAD SAFETY	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/29/2007	02/02/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		01/29/2007	02/02/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/29/2007	02/02/2007	Baseline Inspections
	MR	- MAINTENANCE RULE	1			
1,2	IP 7111112B	Maintenance Effectiveness		01/29/2007	02/02/2007	Baseline Inspections
	71007	- U2 RX HEAD REPLACEMENT	1			
2	IP 71007	Reactor Vessel Head Replacement Inspection		02/05/2007	03/28/2007	Other Routine
	71121	- OCC RAD PROT	1			
2	IP 71007	Reactor Vessel Head Replacement Inspection		03/05/2007	03/09/2007	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/05/2007	03/09/2007	Baseline Inspections
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
	7111108P	- U2 INSERVICE INSPECTION	1			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/12/2007	03/16/2007	Baseline Inspections
	TI-166	- CONTAINMENT SUMP MODIFICATIONS	2			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		03/26/2007	04/04/2007	Safety Issues
	MODS	- MODS & 50.59	4			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		04/16/2007	04/20/2007	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		04/16/2007	04/20/2007	Baseline Inspections
	7112201	- PUB RAD SAFETY - RETS	1			
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		04/23/2007	04/27/2007	Baseline Inspections
	TRI FIRE	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
1,2	IP 7111105T	Fire Protection [Triennial]		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		06/25/2007	06/29/2007	Baseline Inspections
	71121	- OCC RAD SAFETY	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/13/2007	08/17/2007	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
01/01/2007 - 06/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71121	- OCC RAD SAFETY	1			
1,2	IP 7112102	ALARA Planning and Controls		08/13/2007	08/17/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/13/2007	08/17/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/13/2007	08/17/2007	Baseline Inspections
	71152B	- PI&R	4			
1,2	IP 71152B	Identification and Resolution of Problems		08/27/2007	08/31/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		09/10/2007	09/14/2007	Baseline Inspections
	7111111B	- L.O. REQUAL. PROG. + P/F REVIEW	4			
1,2	IP 7111111B	Licensed Operator Requalification Program		11/26/2007	11/30/2007	Baseline Inspections
	7112202	- PUB RAD SAFETY - RADWASTE	1			
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/01/2007	10/05/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/01/2007	10/05/2007	Baseline Inspections
	7111401	- EP EXERCISE & PI VERIFICATION	4			
1,2	IP 7111401	Exercise Evaluation		10/29/2007	11/02/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		10/29/2007	11/02/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		10/29/2007	11/02/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		10/29/2007	11/02/2007	Baseline Inspections
	5/16 EXM	- OPERATOR LICENSING INITIAL EXAMS	4			
1	U01633	CALVERT CLIFFS UNIT 1 & 2 INITIAL EXAM (FY08)		04/21/2008	04/25/2008	Not Applicable
1	U01633	CALVERT CLIFFS UNIT 1 & 2 INITIAL EXAM (FY08)		05/19/2008	05/23/2008	Not Applicable
	7111107B	- HEAT SINK INSP	1			
1,2	IP 7111107B	Heat Sink Performance		02/04/2008	02/08/2008	Baseline Inspections
	7111108P	- U1 INSERVICE INSPECTION	1			
1	IP 7111108P	Inservice Inspection Activities - PWR		02/18/2008	02/22/2008	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		02/25/2008	02/29/2008	Baseline Inspections
	71121	- OCC RAD SAFETY	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/25/2008	02/29/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		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
	TI-166	- CONTAINMENT SUMP MODIFICATION INSPECTION	1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		03/10/2008	03/14/2008	Safety Issues
	7111121	- CDBI	7			
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

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