



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

August 31, 2007

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

Dear Mr. Spina:

On August 14, 2007, the NRC staff completed its performance review of Calvert Cliffs Nuclear Power Plant for the first half of the calendar year 2007 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 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.

Plant performance for the most recent quarter of 2007 at Calvert Cliffs Unit 1 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 results, this finding will be removed from consideration in the performance assessment process after the second quarter of 2007. All PIs for Calvert Cliffs Unit 1 indicate performance at a level requiring no additional NRC oversight (Green).

Plant performance for the most recent quarter of 2007 at Calvert Cliffs Unit 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 Units 1 and 2. In addition to baseline inspections, we plan on conducting a containment sump modification inspection at Unit 1.

There were eight inspection findings during the assessment period with documented cross-cutting aspects in the area of Problem Identification & Resolution (PI&R), and there is a cross-cutting theme associated with four of these findings. The cross-cutting theme involves station attention to detail in identifying problems commensurate with their safety significance, P.1(a)¹. In evaluating your scope of efforts and progress in addressing the cross-cutting theme, the staff determined that you have appropriately identified the cross-cutting theme and scheduled or taken a range of corrective actions to address the cross-cutting theme.

¹ This is a descriptor which correlates to this cross-cutting aspect in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

Based on the recent time-frame associated with some of these performance issues, corrective actions have not reasonably been in place long enough to determine the effectiveness of those corrective actions in addressing the cross-cutting theme. Therefore, the staff has concluded that a substantive cross-cutting issue in PI&R is not warranted at this time.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 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 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 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).

The NRC is currently evaluating the scope and frequency of all baseline inspection procedures. If the results of the evaluation, or any other circumstances, 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

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
R. Hickok, NRC Technical Training Center
G. Aburn, SLO (2)
Institute of Nuclear Power Operations (INPO)

Based on the recent time-frame associated with some of theme and scheduled or taken a range of corrective actions to address the cross-cutting theme. Based on the recent time-frame associated with some of these performance issues, corrective actions have not reasonably been in place long enough to determine the effectiveness of those corrective actions in addressing the cross-cutting theme. Therefore, the staff has concluded that a substantive cross-cutting issue in PI&R is not warranted at this time.

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Division of Reactor Projects

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DOCUMENT NAME: S:\ROP 8 Mid Cycle Review\Letters for Mid Cycle\Branch 1 Mid-cycle letters\Calvert ROP-8 Mid-Cycle Ltr.wpd

SUNSI Review Complete: BAB4 (Reviewer's Initials)

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DATE	08/30/07	08/31/07	08/31/07

Letter to James A. Spina from David C. Lew dated August 31, 2007

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Calvert Cliffs
Inspection / Activity Plan
07/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	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
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		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
1,2	IP 7111111B	Licensed Operator Requalification Program		12/03/2007	12/07/2007	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
	5/19 EXM - INITIAL OPERATOR LICENSING 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 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
	TI-166 - CONTAINMENT SUMP MODIFICATION INSPECTION		1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		03/03/2008	03/07/2008	Safety Issues
	7112103 - OCC RAD SAFETY - INSTRUMENTS		1			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/17/2008	03/21/2008	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
07/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	7112103 - OCC RAD SAFETY - INSTRUMENTS		1			
1,2	IP 71151	Performance Indicator Verification		03/17/2008	03/21/2008	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		05/19/2008	05/23/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		05/19/2008	05/23/2008	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		05/19/2008	05/23/2008	Baseline Inspections
	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
	7112201 - PUB RAD 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 RAD 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
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/03/2008	11/07/2008	Baseline Inspections
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
	EP - EP PROGRAM INSP		2			
1,2	IP 7111402	Alert and Notification System Testing		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		11/17/2008	11/21/2008	Baseline Inspections
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