



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

August 27, 2003

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

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

Dear Mr. Vanderheyden:

On July 29, 2003, the NRC staff completed its mid-cycle plant performance review of Calvert Cliffs Nuclear Power Plant. The mid-cycle review for Calvert Cliffs Nuclear Power Plant involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2003 assessment cycle. The process included a review of 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 and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Plant performance for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix, based on one finding of low to moderate safety significance (White) common to both units in the Emergency Preparedness Cornerstone. The finding involved the offsite alert and notification siren system which was incapable of being actuated in a timely manner. The NRC conducted a 95001 supplemental inspection in January 2003 and determined that your actions to resolve this issue were appropriate.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival on site. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last six months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting. The NRC plans to Pilot a new Inspection Procedure (71111.DS, Safety System Design and Performance Capability) during the weeks of January 12 and 26, 2004. This procedure combines the inspection activities previously performed by 71111.21 (Safety System Design and Performance Capability), 71111.17B (Permanent Plant Modifications), and 71111.02 (Evaluation of Changes, Tests, or Experiments).

In accordance with 10 CFR 2.790 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 James M. Trapp, Chief, Reactor Projects Branch 1, at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

A. Randolph Blough, 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: President, Calvert County Board of Commissioners  
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OFFICE	RI /DRP	RI /DRP	RI /DRP		
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DATE	08/13/03	08/13/03	08/26/03	08/ /03	08/ /03

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**Calvert Cliffs**  
**Inspection / Activity Plan**  
**06/29/2003 - 10/02/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71151 - EP PI VERIFICATION</b>		<b>1</b>			
1, 2	IP 71151	Performance Indicator Verification		07/07/2003	07/11/2003	Baseline Inspections
	<b>T1148BC - SEC ICM</b>		<b>5</b>			
1, 2	IP 2515/148	Inspection of Nuclear Reactor Safeguards - Interim Compensatory Measures		07/07/2003	07/11/2003	Safety Issues
	<b>71122.02 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/08/2003	09/12/2003	Baseline Inspections
	<b>71152B - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>5</b>			
1, 2	IP 71152B	Identification and Resolution of Problems		10/20/2003	10/24/2003	Baseline Inspections
1, 2	IP 71152B	Identification and Resolution of Problems		11/03/2003	11/07/2003	Baseline Inspections
	<b>7111401 - EP EXERCISE EVALUATION</b>		<b>5</b>			
1, 2	IP 7111401	Exercise Evaluation		10/20/2003	10/24/2003	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/20/2003	10/24/2003	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		12/01/2003	12/05/2003	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		12/01/2003	12/05/2003	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/01/2003	12/05/2003	Baseline Inspections
	<b>7112201 - PUB RAD SAFETY - RETS</b>		<b>1</b>			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/08/2003	12/12/2003	Baseline Inspections
	<b>711111B - L.O. REQUALIFICATION PROGRAM</b>		<b>2</b>			
1, 2	IP 711111B	Licensed Operator Requalification		12/14/2003	12/19/2003	Baseline Inspections
	<b>71111DS - DESIGN INSPECTION</b>		<b>8</b>			
1, 2	IP 71111.DS	Safety System Design and Performance Capability		01/12/2004	01/16/2004	Baseline Inspections
1, 2	IP 71111.DS	Safety System Design and Performance Capability		01/26/2004	01/30/2004	Baseline Inspections
	<b>3/1 EXM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>			
1	U01517	CALVERT CLIFFS UNITS 1&2 INITIAL EXAM (3/1-5/04)		02/02/2004	02/06/2004	Not Applicable
1	U01517	CALVERT CLIFFS UNITS 1&2 INITIAL EXAM (3/1-5/04)		03/01/2004	03/05/2004	Not Applicable
	<b>7111107B - HEAT SINK</b>		<b>1</b>			
1, 2	IP 7111107B	Heat Sink Performance		02/09/2004	02/15/2004	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/22/2004	03/26/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		03/22/2004	03/26/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/22/2004	03/26/2004	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		04/12/2004	04/16/2004	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**  
**06/29/2003 - 10/02/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112102	ALARA Planning and Controls		04/12/2004	04/16/2004	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/12/2004	04/16/2004	Baseline Inspections
	<b>7111108P - INSERVICE INSPECTION-UNIT 1</b>		<b>2</b>			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-02)		04/19/2004	04/23/2004	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		04/19/2004	04/23/2004	Baseline Inspections
	<b>71111.05 - TRIENNIAL FIRE PROTECTION</b>		<b>3</b>			
2	IP 7111105T	Fire Protection		05/10/2004	05/14/2004	Baseline Inspections
1, 2	IP 7111105T	Fire Protection		05/24/2004	05/28/2004	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		06/14/2004	06/18/2004	Baseline Inspections
	<b>71114 - EP PROGRAM INSPECT &amp; PI VERIF</b>		<b>1</b>			
1, 2	IP 7111402	Alert and Notification System Testing		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/19/2004	07/23/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/19/2004	07/23/2004	Baseline Inspections
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		07/26/2004	07/30/2004	Baseline Inspections