



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

September 4, 2012

Mr. George Gellrich, Site Vice President  
Constellation Energy Nuclear Group, LLC  
Calvert Cliffs Nuclear Power Plant, LLC  
1650 Calvert Cliffs Parkway  
Lusby, Maryland 20657-4702

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
CALVERT CLIFFS NUCLEAR POWER PLANT UNITS 1 AND 2  
(REPORT 05000317/2012006 AND 05000318/2012006)**

Dear Mr. Gellrich:

On August 14, 2012, the U. S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Calvert Cliffs Nuclear Power Plant (CCNPP) Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011 through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program governed by IMC 0305, "Operating Reactor Assessment Program."

The NRC determined the performance at CCNPP Units 1 and 2 during the most recent quarter was within the Regulatory Response Column of the NRC's ROP Action Matrix because of one greater-than-green Security Cornerstone input as described in Report Number 05000317/2011403 and 05000318/2011403 sent on July 27, 2011. On December 15, 2011, the NRC completed a supplemental inspection for the security issue. Based on the successful supplemental inspection, the finding will be removed from the assessment process after four quarters and CCNPP will return to the Licensee Response Column in the 3<sup>rd</sup> quarter 2012. Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." An additional inspection will be performed for the loading of your Independent Spent Fuel Storage Installation. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Mr. Glenn Dentel, Branch Chief, at (610) 337-5233 with any questions you have regarding this letter.

Sincerely,

***/RA/***

Darrell J. Roberts, Director  
Division of Reactor Projects

Docket Nos.: 50-317, 50-318  
License Nos.: DPR-53; DPR-69

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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NAME	SShaffer	GDentelD	DRoberts		
DATE	08/23/12	08/24/12	08/30/12		

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**Calvert Cliffs**  
**Inspection / Activity Plan**  
**07/01/2012 - 12/31/2013**

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	07/16/2012	07/20/2012	<b>8/13EXAM</b>	<b>- CALVERT CLIFFS INITIAL EXAM</b>	4
			U01849	FY12-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
1	08/13/2012	08/24/2012	U01849	FY12-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
1, 2	06/18/2012	07/18/2012	<b>7111121</b>	<b>- CDBI</b>	7
			IP 7111121	Component Design Bases Inspection	
1, 2	07/23/2012	07/27/2012	<b>71124.05</b>	<b>- OCC RAD SAFETY-INSTRUMENTS</b>	1
			IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	07/30/2012	08/03/2012	<b>EP PROGR</b>	<b>- EP PROGRAM INSPECTION</b>	1
			IP 7111402	Alert and Notification System Testing	
1, 2	07/30/2012	08/03/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	07/30/2012	08/03/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	07/30/2012	08/03/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	07/23/2012	12/31/2012	<b>TI-187</b>	<b>- TI-187 INSP. NTTF - FLOODING WALKDOWNS</b>	2
			IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	
1, 2	07/23/2012	12/31/2012	<b>TI-188</b>	<b>- TI-188 INSP OF NTTF - SEISMIC WALKDOWNS</b>	2
			IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	
1, 2	09/10/2012	09/14/2012	<b>71124.06</b>	<b>- RETS INSPECTION</b>	1
			IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	09/10/2012	09/14/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
1, 2	09/24/2012	09/28/2012	<b>60855</b>	<b>- ISFSI LOADING INSPECTION</b>	1
			IP 60855	Operation Of An ISFSI	
1, 2	09/24/2012	09/28/2012	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1, 2	12/03/2012	12/07/2012	<b>71124</b>	<b>- RAD HAZARD AND ALARA INSPECTION</b>	1
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/03/2012	12/07/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/03/2012	12/07/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2	02/11/2013	02/15/2013	<b>7111108P</b>	<b>- U2 INSERVICE INSPECTION</b>	1
			IP 7111108P	Inservice Inspection Activities - PWR	
2	02/25/2013	03/01/2013	IP 7111108P	Inservice Inspection Activities - PWR	
1, 2	02/25/2013	03/01/2013	<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/25/2013	03/01/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	02/25/2013	03/01/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	02/25/2013	03/01/2013	IP 71124.04	Occupational Dose Assessment	

This report does not include INPO and OUTAGE activities.

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

## Calvert Cliffs

## Inspection / Activity Plan

07/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1, 2	04/08/2013	04/12/2013	<b>71124.08</b> IP 71124.08	<b>- RADWASTE</b> Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
1, 2	05/06/2013	05/10/2013	<b>71124</b> IP 71124.07	<b>- RADIATION SAFETY INSPECTION</b> Radiological Environmental Monitoring Program	1
1, 2	05/06/2013	05/10/2013	IP 71151	Performance Indicator Verification	
1, 2	07/15/2013	07/19/2013	<b>71124</b> IP 71124.03	<b>- RADIATION SAFETY INSPECTION</b> In-Plant Airborne Radioactivity Control and Mitigation	1
1, 2	07/15/2013	07/19/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	09/09/2013	09/13/2013	<b>PI&amp;R</b> IP 71152B	<b>- PI&amp;R</b> Problem Identification and Resolution	4
1, 2	09/23/2013	09/27/2013	IP 71152B	Problem Identification and Resolution	
1, 2	11/18/2013	11/22/2013	<b>711111B</b> IP 711111B	<b>- CALVERT REQUAL INSP WITH P/F RESULTS</b> Licensed Operator Requalification Program	2
1, 2	10/21/2013	10/25/2013	<b>EP EX</b> IP 7111401	<b>- EP EXERCISE EVALUATION</b> Exercise Evaluation	5
1, 2	10/21/2013	10/25/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	10/21/2013	10/25/2013	<b>TRI FI</b> IP 7111105P	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b> Fire Protection-NFPA 805 Transition Period [Triennial]	5
1, 2	11/04/2013	11/08/2013	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
1, 2	12/02/2013	12/06/2013	<b>71124</b> IP 71124.01	<b>- RADIATION SAFETY INSPECTION</b> Radiological Hazard Assessment and Exposure Controls	1
1, 2	12/02/2013	12/06/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/02/2013	12/06/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/02/2013	12/06/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	12/02/2013	12/06/2013	IP 71151	Performance Indicator Verification	