



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

March 5, 2012

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER  
PLANT UNITS 1 AND 2 (REPORT 05000317/2011001 AND 05000318/2011001)**

Dear Mr. Gellrich:

On February 15, 2012, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2011 through December 31, 2011. 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 performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, CCNPP Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at CCNPP Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-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.

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 Documents 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 Glenn Dentel at (610) 337-5233 with any questions you have regarding this letter.

Sincerely,

*/RA/*

John R. Tappert, Acting 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: Distribution via ListServ

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

Sincerely,

*/RA/*

John R. Tappert, Acting Director  
Division of Reactor Projects

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

Enclosure: Calvert Cliffs Inspection / Activity Plan

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ADAMS ACCESSION NUMBER: **ML12061A315**

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| <input checked="" type="checkbox"/> SUNSI Review |                  | <input checked="" type="checkbox"/> Non-Sensitive<br><input type="checkbox"/> Sensitive |          | <input checked="" type="checkbox"/> Publicly Available<br><input type="checkbox"/> Non-Publicly Available |  |
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| NAME   | NPerry/via email | GDentel   | JTappert |   |  |
| DATE   | 02/28/12         | 02/27/12  | 02/28/12 |   |  |

OFFICIAL RECORD COPY

## Calvert Cliffs

## Inspection / Activity Plan

01/01/2012 - 06/30/2013

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity  | Title  | No. of Staff on Site |
|-------------|---------------------|-------------------|--|--|----------------------|
| 1           | 02/15/2012          | 02/29/2012        | <b>7111108P - U1 INSERVICE INSPECTION</b><br>IP 7111108P         | Inservice Inspection Activities - PWR  | 1                    |
| 1, 2        | 03/04/2012          | 03/08/2012        | <b>71124 - RADIATION SAFETY INSPECTION</b><br>IP 71124.02        | Occupational ALARA Planning and Controls   | 1                    |
| 1, 2        | 03/04/2012          | 03/08/2012        | IP 71124.03  | In-Plant Airborne Radioactivity Control and Mitigation   |                      |
| 1, 2        | 03/04/2012          | 03/08/2012        | IP 71124.04  | Occupational Dose Assessment   |                      |
| 1           | 07/16/2012          | 07/20/2012        | <b>8/13EXAM - CALVERT CLIFFS INITIAL EXAM</b><br>U01849          | FY12-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM  | 5                    |
| 1           | 08/13/2012          | 08/24/2012        | U01849   | FY12-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM  |                      |
| 1, 2        | 05/14/2012          | 05/18/2012        | <b>TI 182 - DEGRADATION OF UNDERGROUND PIPING</b><br>IP 2515/182 | Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping | 1                    |
| 1, 2        | 05/21/2012          | 05/25/2012        | <b>7111121 - CDBI</b><br>IP 7111121                              | Component Design Bases Inspection  | 7                    |
| 1, 2        | 06/04/2012          | 06/08/2012        | IP 7111121   | Component Design Bases Inspection  |                      |
| 1, 2        | 06/18/2012          | 06/22/2012        | IP 7111121   | Component Design Bases Inspection  |                      |
| 1, 2        | 07/01/2012          | 11/30/2012        | <b>ISFSI - ISFSI LOADING</b><br>IP 60855                         | Operation Of An ISFSI  | 1                    |
| 1, 2        | 07/23/2012          | 07/27/2012        | <b>71124.05 - OCC RAD SAFETY-INSTRUMENTS</b><br>IP 71124.05      | Radiation Monitoring Instrumentation   | 1                    |
| 1, 2        | 07/30/2012          | 08/03/2012        | <b>EP PROGR - EP PROGRAM INSPECTION</b><br>IP 7111402            | Alert and Notification System Testing  | 1                    |
| 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        | 09/10/2012          | 09/14/2012        | <b>71124.06 - RETS INSPECTION</b><br>IP 71124.06                 | Radioactive Gaseous and Liquid Effluent Treatment  | 1                    |
| 1, 2        | 09/10/2012          | 09/14/2012        | IP 71151-PR01  | RETS/ODCM Radiological Effluent  |                      |
| 1, 2        | 12/03/2012          | 12/07/2012        | <b>71124 - RAD HAZARD AND ALARA INSPECTION</b><br>IP 60855       | Operation Of An ISFSI  | 1                    |
| 1, 2        | 12/03/2012          | 12/07/2012        | 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 - U2 INSERVICE INSPECTION</b><br>IP 7111108P         | Inservice Inspection Activities - PWR  | 1                    |

This report does not include INPO and OUTAGE activities.

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

## Calvert Cliffs

## Inspection / Activity Plan

01/01/2012 - 06/30/2013

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity                        | Title   | No. of Staff on Site |
|-------------|---------------------|-------------------|--|---|----------------------|
| 2           | 02/25/2013          | 03/01/2013        | <b>7111108P</b> - U2 INSERVICE INSPECTION  | Inservice Inspection Activities - PWR   | 1                    |
| 1, 2        | 02/25/2013          | 03/01/2013        | <b>71124</b> - RADIATION SAFETY INSPECTION | Radiological Hazard Assessment and Exposure Controls  | 1                    |
| 1, 2        | 02/25/2013          | 03/01/2013        | IP 71124.01                                | Occupational ALARA Planning and Controls  |                      |
| 1, 2        | 02/25/2013          | 03/01/2013        | IP 71124.02                                | In-Plant Airborne Radioactivity Control and Mitigation  |                      |
| 1, 2        | 02/25/2013          | 03/01/2013        | IP 71124.03                                | Occupational Dose Assessment  |                      |
| 1, 2        | 02/25/2013          | 03/01/2013        | IP 71124.04                                |   |                      |
| 1, 2        | 04/15/2013          | 04/19/2013        | <b>71124.08</b> - RADWASTE                 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | 1                    |
| 1, 2        | 05/06/2013          | 05/10/2013        | <b>71124</b> - RADIATION SAFETY INSPECTION | Radiological Environmental Monitoring Program   | 1                    |
| 1, 2        | 05/06/2013          | 05/10/2013        | IP 71124.07                                | Performance Indicator Verification  |                      |
| 1, 2        | 05/06/2013          | 05/10/2013        | IP 71151                                   |   |                      |
| 1, 2        | 05/06/2013          | 05/10/2013        | <b>PI&amp;R</b> - PI&R                     | Problem Identification and Resolution   | 4                    |
| 1, 2        | 05/20/2013          | 05/24/2013        | IP 71152B                                  | Problem Identification and Resolution   |                      |