



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

March 4, 2014

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER
PLANT UNITS 1 AND 2 (REPORT 05000317/2013001 AND 05000318/2013001)**

Dear Mr. Gellrich:

On February 12, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Calvert Cliffs Nuclear Power Plant Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from January 1, 2013, through December 31, 2013. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Calvert Cliffs Nuclear Power Plant 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 Calvert Cliffs Nuclear Power Plant Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e, green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. 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. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 71003, "Post-Approval Site Inspection for License Renewal;" Temporary Instruction (TI) 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks;" TI 2515/189, "Regulatory Requirements for In-service Examination and Testing of Snubbers;" and IP 60855, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." 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.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year (CY) 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. The CY 2013 end-of-cycle assessments were conducted using the IMC 0310 guidance in effect in CY 2013 (dated October 28, 2011). Cross-cutting aspects identified in 2013 using the 2013 terminology will be converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review, and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," 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 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 me at (610)337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, Chief
Reactor Projects Branch 1
Division of Reactor Projects

Docket Nos: 50-317 and 50-318
License Nos: DPR-53 and DPR-69

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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Enclosure: Inspection Plan

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See next page

DOCUMENT NAME: G:\DRP\BRANCH1\ROP Assessment\2013 End of Cycle Assessment\CC ROP-14 EOC AAL.docx
ADAMS ACCESSION NUMBER: **ML14058A492**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	ARosebrook/AAR per email	DSchroeder/DLS			
DATE	2/27/14	3/4/14			

OFFICIAL RECORD COPY

Letter to Mr. G. Gellrich from D. Schroeder, dated March 4, 2014

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER
PLANT UNITS 1 AND 2 (REPORT 05000317/2013001 AND 05000318/2013001)

Distribution w/encl: (via email)

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RidsNrrDirslpabResources

Calvert Cliffs
Inspection / Activity Plan
01/01/2014 - 06/30/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111108P - U1 INSERVICE INSPECTION		1
1	02/18/2014	02/28/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			2515-189 - TI 2515/189 SNUBBERS		1
1, 2	02/24/2014	02/28/2014	IP 2515/189	Inspection to Determine Compliance of Dynamic Restraint (Snubber) Program with 10 CFR 50.55a	
			71003 - U1 LR COMMITMENTS PHASE 1 INSP - OUTAGE		1
1	02/24/2014	02/28/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			71124 - RADIATION SAFETY INSPECTION		1
1, 2	02/24/2014	02/28/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/24/2014	02/28/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	02/24/2014	02/28/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			TI 182 - DEGRAD UNDERGROUND PIPING - PHASE 2		1
1, 2	03/10/2014	03/14/2014	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			8/25EXAM - CALVERT CLIFFS INITIAL EXAM		3
1	07/28/2014	08/01/2014	U01886	FY14-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
1	08/25/2014	09/04/2014	U01886	FY14-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
			7111107T - TRIENNIAL HEAT SINK		1
1, 2	05/19/2014	05/23/2014	IP 7111107T	Heat Sink Performance	
			71003 - U1 LR COMMITMENTS PHASE 2 INSPEC		4
1	05/19/2014	05/23/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
1	06/02/2014	06/06/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			71124 - RADIATION SAFETY RETS		1
1, 2	06/23/2014	06/27/2014	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	06/23/2014	06/27/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			ISFSI - ISFSI LOADING INSPECTION		2
1, 2	08/04/2014	08/08/2014	IP 60855	Operation Of An ISFSI	
1, 2	08/04/2014	08/08/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			MODS - PERMANENT PLANT MODIFICATIONS		6
1, 2	09/22/2014	09/26/2014	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	10/06/2014	10/10/2014	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			EP PROGR - EP PROGRAM INSPECTION		1
1, 2	11/17/2014	11/21/2014	IP 7111402	Alert and Notification System Testing	
1, 2	11/17/2014	11/21/2014	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	11/17/2014	11/21/2014	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Enclosure

Calvert Cliffs
Inspection / Activity Plan
01/01/2014 - 06/30/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
71124 - RADIATION SAFETY RAD INSTRUMENTS					1
1, 2	12/01/2014	12/05/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/01/2014	12/05/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/01/2014	12/05/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/01/2014	12/05/2014	IP 71124.04	Occupational Dose Assessment	
71124 - RADIATION SAFETY INSPECTION					1
2	02/02/2015	02/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	02/02/2015	02/06/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2	02/02/2015	02/06/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	02/02/2015	02/06/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	02/02/2015	02/06/2015	IP 71151	Performance Indicator Verification	
71124.08 - RADWASTE					1
1, 2	02/02/2015	02/06/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
7111108P - U2 INSERVICE INSPECTION					1
2	02/23/2015	03/06/2015	IP 7111108P	Inservice Inspection Activities - PWR	
71124 - RADIATION SAFETY INSPECTION					1
2	03/09/2015	03/13/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	03/09/2015	03/13/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2	03/09/2015	03/13/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	03/09/2015	03/13/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	03/09/2015	03/13/2015	IP 71151	Performance Indicator Verification	
71124 - RADIATION SAFETY INSPECTION					1
1, 2	04/27/2015	05/01/2015	IP 71124.05	Radiation Monitoring Instrumentation	
71124 - RADIATION SAFETY INSPECTION					1
1, 2	06/22/2015	06/26/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

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