



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

September 1, 2010

Mr. George H. Gellrich, 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. Gellrich:

On August 10, 2010, the Nuclear Regulatory Commission (NRC) staff completed its performance review of Calvert Cliffs Nuclear Power Plant (Calvert Cliffs). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. 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 at Calvert Cliffs Units 1 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). Calvert Cliffs Unit 2 was within the Regulatory Response column of the NRC's Action Matrix based on one finding having low to moderate safety significance (White) in the Mitigating Systems Cornerstone. This finding involved the failure to develop and implement scheduled preventative maintenance for safety-related time delay relays that are used in the protective logic for the 2B Emergency Diesel Generator (EDG). This resulted in a failure of the time delay relay which caused the 2B EDG to trip prematurely when called upon to energize the 24.4 kV safety bus during an event on February 18, 2010.

As a result of our review of CCNPP performance, we plan to conduct a supplemental inspection for Unit 2 using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," when your staff has notified us of your readiness for this inspection. This inspection procedure is conducted to provide assurance that the root cause and contributing causes of risk significant performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. In addition to baseline inspections and the supplemental inspection, we plan on conducting an independent spent fuel storage installation inspection. The inspection plan is provided to allow for the resolution of any scheduling conflicts

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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).

If circumstances arise which cause us to change this 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,


James W. Clifford, 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

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Sincerely,

/RA/
James W. Clifford, Acting Director
Division of Reactor Projects

Docket Nos. 50-317, 50-318
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Enclosure: Calvert Cliffs Inspection / Activity Plan

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RidsNrrPMCalvertCliffs Resource
RidsNrrDorLp1-1 Resource
ROPreportsResource@nrc.gov

DRS Branch Chiefs (6)
D. Screnci, PAO
N. Sheehan, PAO
R. Barkley, ORA
N. McNamara, SLO
D. Tift, SLO
A. Klett, NRR
RidsNrrDirslpab@nrc.gov

SUNSI REVIEW COMPLETE: GTD (Reviewer's Initials)

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OFFICE	RI/DRP	RI/DRP	RI/DRP
NAME	NPerry/ JRHawkins for	GDentel/ GTD	JClifford/ JWC
DATE	08/24/10	08/24/10	09/01 /10

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Calvert Cliffs
Inspection / Activity Plan
 08/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			8/2EXAM - OPERATOR LICENSING INITIAL EXAMS		4
1	08/02/2010	08/13/2010	U01770	FY10 - CALVERT CLIFFS UNIT 1&2 INITIAL OPERATOR LICENSING EXAM	
			EP PROGR - EP PROGRAM INSPECTION		1
1,2	08/02/2010	08/06/2010	IP 7111402	Alert and Notification System Testing	
1,2	08/02/2010	08/06/2010	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	08/02/2010	08/06/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	08/02/2010	08/06/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	08/02/2010	08/06/2010	IP 71151-EP01	Drill/Exercise Performance	
1,2	08/02/2010	08/06/2010	IP 71151-EP02	ERO Drill Participation	
1,2	08/02/2010	08/06/2010	IP 71151-EP03	Alert & Notification System	
			ISFSI - ISFSI LOADING CAMPAIGN		1
1,2	10/04/2010	10/08/2010	IP 60855	Operation Of An ISFSI	
1,2	10/04/2010	10/08/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION		3
1,2	11/29/2010	12/03/2010	IP 7111105T	Fire Protection [Triennial]	
1,2	12/13/2010	12/17/2010	IP 7111105T	Fire Protection [Triennial]	
			71124 - RAD SAFETY - RAD HAZZARD/ALARA & ISFSI		1
1,2	12/06/2010	12/10/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1,2	12/06/2010	12/10/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	12/06/2010	12/10/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	12/06/2010	12/10/2010	IP 71151	Performance Indicator Verification	
			TI179 - 2515/TI179 NSTS VERIFICATION		1
1,2	11/29/2010	12/17/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			71124.08 - RAD MATERIAL AND TRANSPORTATION		1
1,2	01/24/2011	01/28/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			2515/172 - TI 2515/172 RCS DM WELDS		1
2	02/28/2011	03/11/2011	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			7111108P - U2 INSERVICE INSPECTION		1
2	02/28/2011	03/11/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			71124.01 - RAD HAZZARD ASSESS OUT, ALARA, AIR, DOSE		1
1,2	03/07/2011	03/11/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	03/07/2011	03/11/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/07/2011	03/11/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	03/07/2011	03/11/2011	IP 71124.04	Occupational Dose Assessment	
1,2	03/07/2011	03/11/2011	IP 71124.05	Radiation Monitoring Instrumentation	

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

Calvert Cliffs
Inspection / Activity Plan
08/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			7111107T - TRIENNIAL HEAT SINK		1
1	05/16/2011	05/20/2011	IP 7111107T	Heat Sink Performance	
			7111107T - TRIENNIAL HEAT SINK		1
2	05/16/2011	05/20/2011	IP 7111107T	Heat Sink Performance	
			7111117 - PERMANENT PLANT MODIFICATIONS		3
1,2	06/27/2011	07/01/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	07/11/2011	07/15/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			71124.07 - REMP		1
1,2	07/11/2011	07/15/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/11/2011	07/15/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			71124.01 - RAD HAZARD ASSESS, ALARA, AIR, DOSE		1
1,2	08/29/2011	09/02/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1,2	08/29/2011	09/02/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	08/29/2011	09/02/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	08/29/2011	09/02/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	08/29/2011	09/02/2011	IP 71124.04	Occupational Dose Assessment	
1,2	08/29/2011	09/02/2011	IP 71124.05	Radiation Monitoring Instrumentation	
			EP EX - EP EXERCISE INSPECTION		4
1,2	09/12/2011	09/16/2011	IP 7111401	Exercise Evaluation	
1,2	09/12/2011	09/16/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	09/12/2011	09/16/2011	IP 71151-EP01	Drill/Exercise Performance	
1,2	09/12/2011	09/16/2011	IP 71151-EP02	ERO Drill Participation	
1,2	09/12/2011	09/16/2011	IP 71151-EP03	Alert & Notification System	
			711111B - REQUAL INSP W/ P/F RESULTS		3
1,2	11/14/2011	11/18/2011	IP 7111111B	Licensed Operator Requalification Program	
			71152B - PI&R		1
1,2	10/31/2011	11/04/2011	IP 71152B	Identification and Resolution of Problems	
1,2	11/14/2011	11/18/2011	IP 71152B	Identification and Resolution of Problems	
			71124.01 - RAD HAZARD ASSESS, ALARA		1
1,2	12/05/2011	12/09/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	12/05/2011	12/09/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	12/05/2011	12/09/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	12/05/2011	12/09/2011	IP 71124.04	Occupational Dose Assessment	
1,2	12/05/2011	12/09/2011	IP 71124.05	Radiation Monitoring Instrumentation	
2	12/05/2011	12/09/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	

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