



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE RD, STE 102
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

July 18, 2022

Mr. David P. Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear Office (CNO)
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 – POST-
APPROVAL SITE INSPECTION FOR LICENSE RENEWAL - PHASE 4
INSPECTION REPORT 05000317/2022011 AND 05000318/2022011

Dear Mr. Rhoades:

On June 23, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Calvert Cliffs Nuclear Power Plant, Units 1 and 2. The results were discussed with Mr. Tuane Young, Security Manager and other members of your staff and are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Mel Gray, Chief
Engineering Branch 1
Division of Operating Reactor Safety

Docket Nos. 05000317 and 05000318
License Nos. DPR-53 and DPR-69

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

D. Rhoades

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 –POST-
APPROVAL SITE INSPECTION FOR LICENSE RENEWAL - PHASE 4
INSPECTION REPORT 05000317/2022011 AND 05000318/2022011 DATED
JULY 18, 2022

DISTRIBUTION:

BBickett, DORS
PFinney, DORS
GWalbert, DORS
LDumont, DORS, SRI
SObadina, DORS, RI
CFragman, DORS, AA
ROrlikowski, RI OEDO
RidsNrrPMCaltverCliffs Resource
RidsNrrDorlPl1 Resource

DOCUMENT NAME: [https://usnrc.sharepoint.com/teams/Region-I-EB1/Inspections/License
Renewal/CC IR 2022-011.docx](https://usnrc.sharepoint.com/teams/Region-I-EB1/Inspections/License%20Renewal/CC%20IR%202022-011.docx)

ADAMS ACCESSION NUMBER: ML22199A217

<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/DORS	RI/DORS	RI/DORS		
NAME	KMangan	BBrice	MGray		
DATE	7/11/22	7/11/2022	7/18/22		

OFFICIAL RECORD COPY

D. Rhoades

U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000317 and 05000318

License Numbers: DPR-53 and DPR-69

Report Numbers: 05000317/2022011 and 05000318/2022011

Enterprise Identifier: I-2022-011-0022

Licensee: Constellation Energy Generation, LLC

Facility: Calvert Cliffs Nuclear Power Plant, Units 1 and 2

Location: Lusby, MD

Inspection Dates: June 13, 2022 to June 23, 2022

Inspectors: E. Eve, Senior Resident Inspector
N. Floyd, Senior Reactor Inspector
K. Mangan, Senior Reactor Inspector
J. Schoppy, Senior Reactor Inspector

Approved By: Mel Gray, Chief
Engineering Branch 1
Division of Operating Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Post-Approval Site Inspection for Licensee Renewal–Phase 4 at Calvert Cliffs Nuclear Power Plant, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase" and Inspection Manual Chapter (IMC) 2516, "Policy and Guidance for The License Renewal Inspection Program." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

71003 - Post-Approval Site Inspection for License Renewal

The team selected for evaluation eight aging management programs. The team selection of programs was based on risk insights and included programs that were enhanced or new under the renewed operating license. The team also considered for selection those programs with monitoring results that were performed for the first time or identified examination or test results not experienced in the past. The inspection performed by the team was conducted as outlined in NRC IP 71003, Phase 4. For the aging management programs selected, the team reviewed records, interviewed plant staff, and conducted plant walk downs to evaluate whether aging management program elements were being implemented in accordance with NRC requirements. The team evaluated the following elements of the aging management program: scope, preventive actions, parameters monitored or inspected, detection of aging effects, monitoring and trending, acceptance criteria, corrective actions, confirmation process, administrative controls, and operating experience.

The team conducted a Phase 4 license renewal inspection. The following aging management programs were evaluated by the team:

Post-Approval Site Inspection for License Renewal (8 Samples)

- (1) Buried Piping Inspection Aging Management Program
- (2) Cable Aging Management Program
- (3) Chemistry (Water) Aging Management Program
- (4) Diesel Fuel Oil (Tanks and Chemistry) Aging Management Program
- (5) Fatigue Monitoring Aging Management Program
- (6) Preventive Maintenance Aging Management Program
- (7) Reactor Vessel Internals Aging Management Program
- (8) Structure and System Walkdowns Aging Management Program

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On June 16, 2022, the inspectors presented the inspection status to Mr. Pat Navin, Site Vice President, and other members of the licensee staff.
- On June 23, 2022, the inspectors presented the NRC inspection results to Mr. Tuane Young, Security Manager, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71003	Corrective Action Documents	IR 04503382 02742192 02742234 02742286 02742312 02742326 02742337 04013940 04014027 04014067 04014077 04111595 04112212 04116108 04172173 04273537 04273547 04273622 04296945 04398321 04400826 04406312 04422886 04422887 04440788 04471482 04476404 04477329		
	Corrective Action Documents Resulting from Inspection	AR 04506083 AR 04506099 AR 04506090 AR 04505225		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		AR 04505750 AR 04505747		
	Engineering Evaluations	LRD-C-2013-0028	AMBD-00042, Revision 1, Emergency Diesel Generator 10CFR 50.59 Screen	dated 3/10/14
		LRD-C-2013-0061	AMBD-00053, Revision 2, Containment Procedures 10CFR 50.59 Screen	dated 4/2/14
		LRD-C-2013-0062	AMBD-00054, Revision 1, Auxiliary Building Procedures and Inspections 10CFR 50.59 Screen	dated 4/2/14
		LRD-C-2014-0006	AMBD-0049, Rev. 01, Fatigue Monitoring Program 10CFR 50.59 Screen	04/01/2014
	Miscellaneous	AMBD-0006	Diesel Fuel Oil Tanks & Chemistry	Revision 04
		AMBD-0010	Water Chemistry Program	Revision 05
		AMBD-0027	Cast Austenitic Stainless Steel Evaluation Program	Revision 02
		AMBD-0035	Buried Pipe Inspection Program	Revision 03
		AMBD-0036	Cable Aging Management Program	Revision 02
		AMBD-0043	Rector Vessel Internals Program	Revision 03
		AMBD-0045	Salt Water Cooling System	Revision 02
		AMBD-0049	Fatigue Monitoring Program	Revision 00
		AMBD-0052	Structures and System Walkdowns	Revision 05
		Test Results - 600V and Higher Inaccessible Cables 2022		
	Procedures	ER-AA-200	Preventive Maintenance Program	Revision 6
		ER-AA-470	Fatigue and Transient Monitoring Program	Revision 10
		ER-AA-700	License Renewal Implementation Program	Revision 10
		ER-CA-450	Structure and System Walkdowns	Revision 1
		LS-AA-110	Commitment Management	Revision 14
	Work Orders	C91951271 C92065061 C92350053 C92350992 C92502561 C92542703		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		C92542714 C92542740 C92543679 C92684818 C92755494 C92762227 C93620664 C93640516 C93647751 C93648296 C93701805 C93782989 C93795219		