



200 Exelon Way  
Kennett Square, PA 19348

10 CFR 50.71(e)(4)  
10 CFR 54.37(b)  
NEI 99-04

September 7, 2021

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Calvert Cliffs Nuclear Power Plant, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-53 and DPR-69  
NRC Docket Nos. 50-317 and 50-318

SUBJECT: Submittal of Calvert Cliffs Updated Final Safety Analysis Report, Revision 52

In accordance with 10 CFR 50.71(e)(4) and 10 CFR 50.4(b)(6), enclosed is Revision 52 of the Updated Final Safety Analysis Report (UFSAR) for Calvert Cliffs Nuclear Power Plant (CCNPP). The enclosed UFSAR revision is being provided to the U.S. Nuclear Regulatory Commission (NRC) in electronic format on CD-ROM (Enclosure 1). The electronic version of the UFSAR revision is being submitted in entirety and is a complete document. This update incorporates Revision 52 of the UFSAR.

10 CFR 54.37(b) requires in part "...After the renewed license is issued, the UFSAR update required by 10 CFR 50.71(e) must include any Structures, Systems, or Components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analyses .....this FSAR update must describe how the effects of aging will be managed such that the intended function(s) in § 54.4(b) will be effectively maintained during the period of extended operation." An evaluation was completed to determine whether any newly identified SSCs were discovered during the UFSAR update period. As a result of this evaluation, there were 26 newly identified SSCs which require Aging Management Review. These SSCs were recently added to the station's Tornado Safe Shutdown Equipment List. A listing of the 26 SSCs and a description of their Aging Management Reviews will be included in an update to Chapter 16 in the next UFSAR revision, in accordance with 10 CFR 50.71(e)(4).

Technical Specifications Section 5.5.14, "Technical Specifications Bases Control Program", requires that changes to the Bases implemented without prior NRC approval shall be provided to the NRC on a frequency consistent with 10 CFR 50.71(e). Technical Specifications Bases, Revision 76, is also provided on CD-ROM as Enclosure 2.

Attachment 1 provides a summary of the changes incorporated into UFSAR Revision 52. Attachment 2 includes file directory structure information identifying directory path, filename, and size of the individual files on the enclosed CDs.

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Furthermore, in accordance with the guidance in NEI 99-04, "*Guidelines for Managing NRC Commitment Changes*," this submittal addresses commitment changes made since the previous UFSAR submittal on September 4, 2019. There were commitment changes made since the last submittal. These changes were associated with Calvert Cliffs' Open Phase Initiative implementation date extensions. Details of the commitment information are located in Attachment 1.

As required by 10CFR50.71(e)(2)(i), I certify that to the best of my knowledge, Revision 52 of the UFSAR accurately reflects information and analyses submitted to the NRC, or prepared pursuant to NRC requirements as described above.

If you have any questions or require further information, please contact Steve Flickinger at 267-533-1437.

Respectfully,



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David P. Helker  
Sr. Manager - Licensing  
Exelon Generation Company, LLC

Attachments: 1) Brief Summary of the UFSAR Changes  
2) Electronic File Directory Structure

Enclosures: 1) CCNPP Units 1 and 2, UFSAR Revision 52 (CD-ROM)  
2) CCNPP Units 1 and 2, TS Bases Revision 76 (CD-ROM)

cc: NRC Regional Administrator, Region I w/ Attachments & Enclosures  
NRC Senior Resident Inspector, CCNPP "  
NRC Project Manager, NRR, CCNPP "  
S.Seaman, State of Maryland "

**ATTACHMENT 1**

Brief Summary of the UFSAR Changes  
Submittal of CCNPP UFSAR Revision 52  
NRC Docket Nos. 50-317 and 50-318

Page 1

<b>UFSAR Change Number</b>	<b>Change Description</b>
UCR01014	EDRIP 500kV/13.8kV Modification P-1300-3 Tie-in
UCR01061	Startup testing Plateau Power Level Change
UCR01066	Correct PSV Opening Pressure description in UFSAR Section 14.8.1
UCR01079	Modify Core Bypass Flows for Framatome HTP Fuel
UCR01083	Change UFSAR Chapter 4, Capsule Removal Table
UCR01084	Calvert Cliffs Revised Modified Barnett Implementation
UCR01086	Add Clarifying Statement Regarding Electrical Raceway Fire Barrier Systems to Section 9.9.3.11
UCR01087	Update Turbine Missile Generation Probability
UCR01088	Install Unit 1 Standby Feedwater Pump
UCR01090	Add Road Safety Basket Description to Section 9.7.2.10
UCR01091	Remove Comma from UFSAR Section 9.7.2.1
UCR01092	Administrative Changes to the UFSAR to Describe the Use of Armored Insert Rods at CCNPP
UCR01093	Turbine Bypass Valve Single Point Vulnerability Control Circuit Elimination
UCR01097	Include Control Room Emergency Ventilation System to Engineered Safety Feature system list
UCR01098	Startup Test Activity Reduction UFSAR Changes
UCR01099	Air Operated Containment Isolation Valve Vulnerability Reduction
UCR01100	Update the UFSAR to Update Radio Telephone System due to EOF/JIC Relocation
UCR01102	Calvert Cliffs Unit 1 Cycle 25 Reload UFSAR Updates and Editorial Corrections to UFSAR
UCR01103	Evaluate Containment Outage Door for External Loads
UCR01105	Turbine Bypass Valve Single Point Vulnerability Control Circuit Elimination
UCR01106	Implementation of 10CFR50.69 at Calvert Cliffs NPP
UCR01108	Editorial Change to Correct Typographical Errors Regarding 0.1% Failed Fuel
UCR01109	Fleet Adoption of ANSI/ANS 3.1-2014
UCR01111	Correct Typographical Error in Section 13.4.5
UCR01115	Spent Fuel Pool Seismic Restraint Removal
UCR01116	Auxiliary Building Truck Bay Modifications to Support Dry Fuel Storage Loading Operations
UCR01117	Revise UFSAR Section 16.2 Aging Management Programs and Activities for 10CFR50.69
UCR01119	Calvert Cliffs Unit 2 Cycle 24 Reload UFSAR Updates
UCR01120	Removal of the 1" MSDL MOVs from UFSAR Figure 5-10 Sheet Nos. 23 and 24
UCR01122	UFSAR Chapter 14 Updates for IR 4397510 and Framatome Accident Tolerant Fuel
UCR01124	Admin Change to UFSAR Section 6.3.2.4
UCR01129	Update UFSAR to incorporate systems categorized per 10CFR50.69
<b>Commitment Change</b>	<b>Change Description</b>
Full Implementation of the NEI Open Phase Initiative	Full implementation of OPI date was changed on 7/20/2020 and 7/13/2021. (ML20206K950 and ML21194A050)

**ATTACHMENT 2**

**Calvert Cliffs Nuclear Power Plant - Units 1 & 2**

**Electronic File Directory Structure**

Directory Path	UFSAR File Names	File Size (bytes)
C:\UFSAR REV 52	CAL Chapter 01 (001) Table of Contents.pdf	210,660
C:\UFSAR REV 52	CAL Chapter 01 (002) Section 1.1.pdf	61,971
C:\UFSAR REV 52	CAL Chapter 01 (003) Section 1.2.pdf	183,512
C:\UFSAR REV 52	CAL Chapter 01 (004) Section 1.3.pdf	99,462
C:\UFSAR REV 52	CAL Chapter 01 (005) Section 1.4.pdf	105,547
C:\UFSAR REV 52	CAL Chapter 01 (006) Section 1.5.pdf	101,143
C:\UFSAR REV 52	CAL Chapter 01 (007) Section 1.6.pdf	72,069
C:\UFSAR REV 52	CAL Chapter 01 (008) Section 1.7.pdf	57,252
C:\UFSAR REV 52	CAL Chapter 01 (009) Section 1.8.pdf	155,102
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C:\UFSAR REV 52	CAL Chapter 01 (011) Appendix 1A.pdf	53,278
C:\UFSAR REV 52	CAL Chapter 01 (012) Apoendix 1B Table of Contents.pdf	81,798
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Directory Path	UFSAR File Names	File Size (bytes)
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Directory Path	Technical Specification Bases File Names	File Size (bytes)
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