

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

September 25, 2017

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001Calvert Cliffs Nuclear Power Plant, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-53 and DPR-69  
NRC Docket Nos. 50-317 and 50-318SUBJECT: Submittal of Amended Updated Final Safety Analysis Report,  
Revision 49REFERENCE: Letter from David T. Gudger (Exelon Generation Company, LLC) to  
U.S. Nuclear Regulatory Commission - "Submittal of Updated Final  
Safety Analysis Report, Revision 49," dated September 12, 2017

In accordance with 10 CFR 50.71(e)(4) and 10 CFR 50.4(b)(6), enclosed is Revision 49 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. The electronic version of the UFSAR revision is being resubmitted in its entirety and is a complete document.

By letter dated September 12, 2017, CCNPP submitted Revision 49 of the UFSAR. Subsequently, various administrative discrepancies were identified in the referenced UFSAR Revision 49 update for CCNPP. Some of the issues identified and corrected in this submittal involve various figures in Chapters 3 and 14, and includes identifying UCR00978, which was omitted from the original Attachment 1.

The enclosed amended UFSAR revision is being provided to the NRC in electronic format on CD-ROM. The electronic version of this amended UFSAR revision is being submitted in entirety in accordance with 10 CFR 50.4(b)(6) and is a complete document.

Attachment 1 contains the new revised brief summary of the changes incorporated into UFSAR Revision 49, with the added UCR bolded for ease of identification.

Attachment 2 to this letter contains a new revised file directory structure information identifying directory path, filename, and size of the individual files on the enclosed CD-ROM for the amended UFSAR Revision 49 update.

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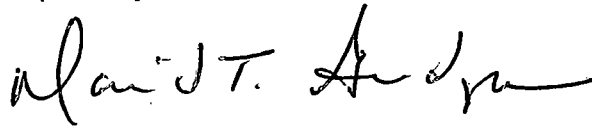
U.S. Nuclear Regulatory Commission  
Submittal of CCNPP UFSAR Revision 49  
NRC Docket Nos. 50-317 and 50-318  
September 25, 2017  
Page 2

Attachment 3 of the September 12, 2017 submittal remains valid; and therefore, is not included in this revised submittal.

As required by 10CFR50.71(e)(2)(i), I certify that to the best of my knowledge, Revision 49 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 Enrique Villar at (610) 765-5736.

Respectfully,



David T. Gudger  
Manager - Licensing & Regulatory Affairs  
Exelon Generation Company, LLC

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

Enclosure: CCNPS, Units 1 and 2, UFSAR Revision 49 (CD-ROM)

cc: NRC Regional Administrator, Region I  
NRC Senior Resident Inspector, CCNPP  
NRC Project Manager, NRR, CCNPP  
S. T. Gray, State of Maryland

w/attachments & Enclosure  
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## ATTACHMENT 1

### Brief Summary of the Changes Submittal of CCNPP UFSAR Revision 49 NRC Docket Nos. 50-317 and 50-318

Page 1 of 2

<u>Change Number</u>	<u>Brief Description of Change</u>
UCR01000	Revised UFSAR to eliminate hand written information on UFSAR figure 4-18 and add appropriate "TM" and "®" symbols for AREVA fuel
UCR00992	Revised UFSAR to clarify UFSAR Tornado Missile Licensing Basis
UCR00938	Revised UFSAR the protective relay descriptions to include Open Phase Detection discussion for Unit 2
UCR00980	Calvert Cliffs Unit 2 Cycle 22 UFSAR Updates
UCR00987	Revised UFSAR to change NDE examination requirements to reflect Code requirements (UFSAR Section 10A.219(a))
UCR00946	Calvert Cliffs Unit 1 Cycle 23 UFSAR Updates
UCR00920	Revised UFSAR UCN associated with implementing AREVA CEAs
UCR00948	Revised UFSAR to clarify and distinguished between AREVA and Westinghouse fuels
UCR00949	Revised UFSAR section 6.3.4.h to align with changes made by ECP-11-000983
UCR00958	Revised UFSAR Calvert Cliffs' Annual 10 CFR 50.46 Report UFSAR Markups
UCR00967	Revised UFSAR Chapter 16 ; Table 16-2 item 4
UCR00890	Revised UFSAR Section 11.2.3.3.9 to update for the replacement of the Unit 2 CCW radiation monitor. Change applicable to Unit 2 only
UCR00965	Revised UFSAR to update UFSAR Table 14.20-13 to show correct containment pressure
UCR00908	Revised UFSAR Section 10.5.2.2 to reflect the setpoints for the newly installed General Atomic equipment.
UCR00964	Revised 1.C1 to correct the reference to the station Blackout Rule
UCR00968	Editorial changes to UFSAR Section 16.3.2
UCR00984	Revised UFSAR to incorporate GL 2008-01 information into the UFSAR
UCR00983	Revised UFSAR to update Table 9-17A Single Failure Analysis for Flooding Due to Passive Failure, consequences Section
UCR00929	Revised UFSAR to update Section 6.9, Table 8-7, and Section 9.5.2.2 to reflect upgrades to the AFW Pump Room Emergency Cooling System
UCR00986	Revised UFSAR to delete CTMT penetrations 9,10,41 and Note d from Table 5-3 "Valves subject to Type C LLRT"
UCR00913	Revised UFSAR the protective relay description to include Open Phase Detection (OPD) for Unit 1
UCR00900	Revised UFSAR to create a new Chapter 16.3 "Evaluation of Time-limited Aging Analysis
UCR00907	Revised UFSAR Section 16.2, 16.4 and 16.5
UCR00955	Revised UFSAR to update UFSAR to Electrical Isolate grounded Proportional Pressurizer Heater (N4) at 1J183
UCR00977	Revised UFSAR to update Table 4-13B
UCR00905	Revised to update UFSAR due to Digital Feedwater Upgrade project
UCR00976	Revised UFSAR to move Section 6.11 to 6.3.3
UCR00876	Revised UFSAR Table 11-10 and Section 4.3.5
UCR00925	Revised UFSAR Section 10.1.2
UCR00933	Revised UFSAR Sections 12.1, 12.2, 12.4, 12.5 and figures 12-1, 12-2
UCR00926	Revised UFSAR Chapter 7 Section 7.2.2
UCR00854	Revised UFSAR Section 8.4.1.2

## ATTACHMENT 1

Brief Summary of the Changes  
Submittal of CCNPP UFSAR Revision 49  
NRC Docket Nos. 50-317 and 50-318

Page 2 of 2

UCR00942	Revised UFSAR Section 5 Table 5-3
UCR00940	Revised UFSAR Section 5A.2, Section, and Section 11.1.2.1
UCR00930	Revised UFSAR Section 11.1.2.4
UCR00906	Revised UFSAR to update CCW description in Section 9.5.2.1
UCR00927	Revised UFSAR Table 9-17
UCR00904	Revised UFSAR Section 14.23 to incorporate changes associated with the NUKEM skid replacement
UCR00947	Revised UFSAR Section 14.16.1 to remove outdated and redundant information
UCR00924	Revised UFSAR Sections 14.1.4 to update AREVA methodology information
<b>UCR00978</b>	<b>Revised UFSAR to implement TS 3.4.10 PSV changes and implement SE00557 on Units 1 and 2</b>

## **ATTACHMENT 2**

Electronic File Directory Structure  
Submittal of CCNPP UFSAR Revision 49  
NRC Docket Nos. 50-317 and 50-318  
(6 pages)

Directory Path	File Name	File Size
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d:\15 Ch 15-Tech Requirements Manual	CAL Chapter 15 (001) Table of Contents.pdf	52,807
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**ENCLOSURE**

**Calvert Cliffs Nuclear Power Plant  
Units 1 and 2**

**Updated Final Safety Analysis Report, Revision 49  
(CD-ROM)**