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June 8, 2016

Docket Nos.: 52-025
52-026

ND-16-0832
10 CFR 52 App. D
10 CFR 50.59

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

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Units 3 and 4
Report of 10 CFR 50.59 Changes, Tests and Experiments and
10 CFR 52 Appendix D Departure Report

Ladies and Gentlemen:

This submission is made with regard to the Vogtle Electric Generating Plant, Units 3 and 4, Combined License (COL) numbers NPF-91 and NPF-92, pursuant to the reporting requirements of 10 CFR 50.59(d)(2) and 10 CFR 52, Appendix D, paragraphs X.B.1 and X.B.3.b.

For the period of December 2, 2015, to May 31, 2016, there were no changes, tests or experiments made pursuant to paragraph (c) of 10 CFR 50.59.

The reporting of plant-specific departures required by 10 CFR 52, Appendix D, paragraphs X.B.1 and X.B.3.b. is provided as Enclosure 1 for the period of December 2, 2015 to May 31, 2016.

This letter makes no regulatory commitments. If you have questions, please contact Mr. Jason Redd at 205-992-6435.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

A handwritten signature in black ink, appearing to read "B. H. Whitley", written over a horizontal line.

Brian H. Whitley

BHW/GAB/ljs

Enclosure 1: Vogtle Electric Generating Plant (VEGP) Units 3 and 4, Semi-Annual Departure Report for the Period of December 2, 2015 to May 31, 2016

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Southern Nuclear Operating Company

ND-16-0832

Enclosure 1

Vogtle Electric Generating Plant (VEGP) Units 3 and 4

Semi-Annual Departure Report

for the Period of

December 2, 2015 to May 31, 2016

(37 pages, including this cover page)

ND-16-0832
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of December 2, 2015 to May 31, 2016

Departure Number: LDCR-2014-039 **License Amendment:** Yes ☒ No ☐
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: 45
Unit 4 Amendment No.: 45

Departure Title: Tier 2* Editorial and Consistency Changes (LAR-13-033)

Brief Description of the Plant-Specific Departure:

Tier 2* information in the UFSAR (plant-specific DCD) is revised to make editorial corrections (e.g. typing, spelling, data entry), clarifications, and consistency updates (e.g. inconsistencies with other UFSAR and Tier 1 information).

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This departure involved Tier 2* information in the UFSAR, therefore, a License Amendment Request (LAR-13-033) was submitted to the NRC and approved by License Amendment 45.

Departure Number: LDCR-2014-047 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Changes to High Pressure Air Subsystem of the Compressed and Instrument Air System (CAS)

Brief Description of the Plant-Specific Departure:

The design of the CAS is updated to add a second isolation valve at the discharge of the air purifier/dryer and at the inlet to the Self Contained Breathing Apparatus (SCBA) refill station package; relocate the alternate Main Control Room Emergency Habitability System (VES) refill connection from inside the Turbine Building to the outer wall of the Turbine Building in the yard and add a bleed valve; relocate the local grab sample connection from the alternative VES refill connection line to the main VES refill line to the VES emergency air storage tanks and relocate a relief valve and associated piping from the VES refill line to the alternate VES refill connection line.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 9.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

ND-16-0832
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of December 2, 2015 to May 31, 2016

<u>Departure Number:</u>	LDCR-2014-060	License Amendment:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Exemption:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Unit 3 Amendment No.:	43
		Unit 4 Amendment No.:	43

Departure Title: Addition of Instruments to Design Reliability Assurance Program
(D-RAP) (LAR-14-006)

Brief Description of the Plant-Specific Departure:

The startup feedwater (SFW) pump actuation logic is modified to initiate on either a total feedwater flow, as measured by a sum of low-range main feedwater (MFW) flow and SFW flow coincident with narrow-range steam generator (SG) level, or initiate on a low wide-range SG level.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 17 ,Tier 1 Section 3 and COL Appendix C.

Summary of the Evaluation:

This departure involved changes to Tier 2 information in the UFSAR which also involved changes to Tier 1 information and COL Appendix C; therefore, a License Amendment and Exemption Request (LAR-14-006) was submitted to the NRC and approved by License Amendment 43.

Departure Number: LDCR-2014-080 **License Amendment:** Yes ☒ No ☐
Exemption: Yes ☒ No ☐
Unit 3 Amendment No.: 44
Unit 4 Amendment No.: 44

Departure Title: Reclassification of Tier 2* Information on Fire Area Figures
(LAR-15-007)

Brief Description of the Plant-Specific Departure:

UFSAR (plant-specific DCD) Tier 2* Fire Area Figures 9A-1, 9A-2, 9A-3, 9A-4, 9A-5 and 9A-201 are re-classified as Tier 2, in their entirety, by removing the brackets and italicized font in the title box, and deleting the associated note.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 9.

Summary of the Evaluation:

This departure involved UFSAR (plant-specific DCD) Tier 2* information, and effectively remove fire areas from consideration as a Tier 2* matter, as specified in 10 CFR 52, Appendix D, Section VIII.B.6.b, Item (4), therefore, a License Amendment and Exemption Request (LAR-15-007) was submitted to the NRC and approved by License Amendment 44.

Departure Number: LDCR-2014-083 **License Amendment:** Yes ☒ No ☐
Exemption: Yes ☒ No ☐
Unit 3 Amendment No.: 46
Unit 4 Amendment No.: 46

Departure Title: Compressed and Instrument Air System High Pressure Air Subsystem
Changes (LAR-14-009)

Brief Description of the Plant-Specific Departure:

The design of the Compressed and Instrument Air System (CAS) is revised to remove a nonsafety-related air supply line from the CAS to the main generator breaker package.

A second portion of this departure changes the CAS high-pressure receiver package and associated components.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 9, Tier 1 Section 2 and COL Appendix C.

Summary of the Evaluation:

A portion of this departure involved changes to Tier 1 information and COL Appendix C, therefore, a License Amendment and Exemption Request (LAR-14-009) was submitted to the NRC and approved by License Amendment 46.

The second portion of this departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

The second portion of this departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this portion of the departure.

<u>Departure Number:</u>	LDCR-2014-101	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Update of Reactor Internal and Core Support Materials Specifications

Brief Description of the Plant-Specific Departure:

Additional structural materials are added as acceptable for use for the reactor internals and core support structure, internal structure and threaded fasteners to account for the instrumentation grid assembly materials, flow skirt materials and other component materials.

Additional pressure-retaining materials are added as acceptable for use as reactor coolant pressure boundary materials including materials for the reactor coolant pumps.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 4 and 5

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2014-147 **License Amendment:** Yes ☒ No ☐
Exemption: Yes ☒ No ☐
Unit 3 Amendment No.: 48
Unit 4 Amendment No.: 48

Departure Title: Main Control Room Emergency Habitability System (VES) Design Changes (LAR-15-006)

Brief Description of the Plant-Specific Departure:

A portion of this departure makes multiple changes to the design of the VES. The orientation of the Main Control Room (MCR) air filtration line educator is reversed. An air bank fill/vent header with a safety-related air tank fill/vent isolation valve at each of the four air banks is added and the ASME Class 3 to nonsafety-related classification transition is moved to immediately upstream of the safety-related air tank fill/vent isolation valves. The refill line isolation valve safety classification is changed to nonsafety-related. The two flow control orifices downstream of the pressure regulating valves are deleted. The classification of the emergency air storage tanks is changed to safety-related. The designations of the upper bank of the VES tanks are revised.

A second portion of this departure clarifies the description of the flow metering orifice in the air filtration line educator of the VES.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 3 and 6, Tier 1 Section 2 and COL Appendix C.

Summary of the Evaluation:

A portion of this departure involved changes to Tier 2 information in the UFSAR which also involved changes to Tier 1 information, and COL Appendix C; therefore, a License Amendment and Exemption Request (LAR-15-006) was submitted to the NRC and approved by License Amendment 48.

The second portion of this departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

The second portion of this departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this portion of the departure.

Departure Number: LDCR-2015-066 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Update of Communication System (EFS) Design to Reflect Current State
of Available Communication Technologies

Brief Description of the Plant-Specific Departure:

The EFS is upgraded to incorporate new technology including replacing switching hardware with software with network switching capability.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 9, 14 and 18.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-072 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Fire Protection System (FPS) Fire Water Tanks and Cross Connection
Location Changes

Brief Description of the Plant-Specific Departure:

The design features of the loop configuration, tank designations and cross connection piping of the FPS are clarified.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 9.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-096 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Resizing of the Compressed and Instrument Air System (CAS)
Compressor Motor

Brief Description of the Plant-Specific Departure:

The size of the CAS Instrument Air Package compressor motor is increased to 250 horsepower. Also, a separate power supply is added for each CAS Instrument Air Dryer Package.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 8.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-103 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Change to Containment Stairway Module CS11 and Chemical and Volume Control System (CVS) Room Flood Weir

Brief Description of the Plant-Specific Departure:

The design of stairway module CS11 is changed to remove submodule CS11_02 and to move and reorient submodule CS11_01 to provide access directly to submodule CS11_03. Also, a leak resistant hatch is added to the flood weir surrounding the opening to the CVS Room.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 1, 3, 9 and 12.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2015-105	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Removal of Type C Containment Isolation Valve Leak Testing Requirements

Brief Description of the Plant-Specific Departure:

Type C containment isolation valve leak testing requirements are removed from a locked closed and capped containment isolation valve in the Normal Residual Heat Removal System (RNS).

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 6.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

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Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of December 2, 2015 to May 31, 2016

<u>Departure Number:</u>	LDCR-2015-115	License Amendment:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Exemption:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Unit 3 Amendment No.:	42
		Unit 4 Amendment No.:	42

Departure Title: CA04 Structural Module ITAAC Dimensions Change (LAR-15-015)

Brief Description of the Plant-Specific Departure:

The concrete thicknesses of four walls around the reactor vessel cavity is increased and it is specified that the wall thicknesses for walls around the reactor vessel cavity may be increased beyond American Concrete Institute (ACI) 117 requirements provided that there is sufficient margin beyond the reinforcement requirements of ACI-349-01.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3, Tier 1 Section 3 and COL Appendix C.

Summary of the Evaluation:

This departure involved changes to Tier 2 information in the UFSAR which also involved changes to Tier 1 information and COL Appendix C; therefore, a License Amendment and Exemption Request (LAR-15-015) was submitted to the NRC and approved by License Amendment 42.

<u>Departure Number:</u>	LDCR-2015-126	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Removal of Manual Actuation of the Loop-Based Main Steam Line Isolation

Brief Description of the Plant-Specific Departure:

The reference to two loop-based main steam line manual isolation actuation controls in the UFSAR (plant-specific DCD) is removed and the number of main steam line manual actuation controls is reduced to two.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 10.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-127 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Inconsistent Reactor Coolant Pump (RCP) Flywheel Integrity Analysis
References

Brief Description of the Plant-Specific Departure:

The citation in the UFSAR (plant-specific DCD) for the Structural Analysis Summary for the AP1000 RCP High Inertia Flywheel is changed to be consistent with other references in the UFSAR.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 1.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-128 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Correction to Area Locator Code and Primary Area/Location Served

Brief Description of the Plant-Specific Departure:

An area locator code and the primary area/location served is corrected in a UFSAR (plant-specific DCD) table that provides a listing of communication equipment and locations.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 9.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-133 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Removal of Inconsistent Statement about Main Steam Safety Valve
(MSSV) Vent Stacks

Brief Description of the Plant-Specific Departure:

The description of the MSSV vent stacks is clarified to remove the statement that they are not required for safety, and that they are seismically designed to seismic Category I requirements.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 10.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-135 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Changes to Grounding and Lightning Protection System (EGS)

Brief Description of the Plant-Specific Departure:

The description of the EGS is changed to provide consistent terminology to describe the grounding subsystems, clarify the design requirements for equipment grounding, and delete a reference to a brand name for copper conductors and ground rods.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 8.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2015-136	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Changes of Fuel Transfer Penetration Figure

Brief Description of the Plant-Specific Departure:

A UFSAR (plant-specific DCD) figure depicting the fuel transfer penetration through containment is corrected by deleting the steel liner from a portion of the concrete penetration area in Auxiliary Building module CA20.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2015-138	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Change to Main Turbine Stop Valves and Control Valves

Brief Description of the Plant-Specific Departure:

The arrangement of the main turbine stop valves, control valves, and intercept valves to the turbine and steam piping is clarified; the size of the main turbine stop valves are changed to 28-inches; and the "D-EHC control panel" is changed to the "turbine control and protection system."

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 1 and 10.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-139 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Change to Nuclear Island (NI) Basemat Floor Sloping Requirements

Brief Description of the Plant-Specific Departure:

The design of the floors in rooms on the NI basemat, with serviceable components containing radioactive liquids, is changed from floors sloped to floor drains to floors that are not sloped. In addition, for rooms located above the NI basemat, floors are sloped to floor drains where practicable.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 12.

Summary of the Evaluation:

This plant-specific departure did not result in a deviation from plant-specific DCD design information such that there is more than a minimal increase in the frequency of occurrence of an accident, likelihood of the occurrence of a malfunction of a structure, system or component (SSC) important to safety, consequences of an accident or malfunction; create the possibility of an accident of a different type or malfunction with a different result; result in a design basis limit for a fission product barrier being exceeded or altered; result in a departure from a method of evaluation; or a substantial increase in the probability of an ex-vessel severe accident previously determined to not be creditable such that it would become credible.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII departure evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2015-141 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Updates to Environmental Qualification (EQ) Program Requirements

Brief Description of the Plant-Specific Departure:

The EQ documentation requirements are changed to eliminate the necessity of creating Equipment Qualification Data Packages (EQDPs) and Equipment Qualification Test Reports (EQTRs) for seismic Category I and seismic Category II mechanical equipment that are qualified through seismic analysis only, without any environmental qualification requirements. In addition, a reference to a figure depicting short term and long term main steam isolation valve room temperature responses to a main steam line break is removed from a description of environmental conditions inside containment.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-001 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Update Fast Bus Transfer Requirements to Allow for Fault on Excitation System

Brief Description of the Plant-Specific Departure:

The description of the electrical power system is changed to add statements that an automatic fast bus transfer over to the reserve auxiliary transformers will occur, if an electrical fault is detected on the alternating current (ac) portion of the main generator excitation system; and that the excitation transformer has ground fault protection.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 8.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-003 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Alternative Methods Used for the Component Interface Module (CIM)
Project Life Cycle

Brief Description of the Plant-Specific Departure:

The conformance statements for Regulatory Guides regarding software design for the CIM project are revised to take exceptions, and to provide alternative processes, where appropriate. This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 1 and 7.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2016-004	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Addition and Deletion of Safety-Related Snubbers

Brief Description of the Plant-Specific Departure:

The list of safety-related snubbers is revised, and a qualitative statement regarding sufficient thermal movement of snubbers is removed.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-005 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Update Technical Requirement Manual (TRM) Bases 3.3.1

Brief Description of the Plant-Specific Departure:

TRM Bases 3.3.1, Diverse Actuation System (DAS) Automatic Actuation, is revised to change "MG set field breaker trip" to read "MG set field control relay open."

This departure resulted in changes to the TRM which is, in part, incorporated by reference in UFSAR (plant-specific DCD) Chapter 16.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-007 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Changes to Main AC Power System (ECS) Load Centers and Onsite Standby Diesel Generator Load Sequencing

Brief Description of the Plant-Specific Departure:

The onsite standby diesel generator nominal loads tables are revised by adding additional loads, changing the time sequence of existing loads, and revising the total automatically sequenced loads. It also updates ECS component data to include additional load centers and changes existing load center ratings.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 8.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-008 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Modification to Non-Destructive Examination Testing Methods for
Reactor Pressure Vessel (RPV) and Pressurizer

Brief Description of the Plant-Specific Departure:

The yoke method is added as an acceptable method of performing magnetic particle (MT) examinations prior to the final postweld heat treatment for the RPV.

Liquid (dye) penetrant examination is added as an allowable inspection method for the RPV and the pressurizer when the inspection surface and surrounding geometry does not permit effective use of MT examination methods.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 5.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2016-009	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Reactor Coolant Pressure Boundary Material Changes

Brief Description of the Plant-Specific Departure:

The list of acceptable materials used in reactor coolant pressure boundary valves is changed.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 5.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2016-013	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Reconciliation of Various Valve Information

Brief Description of the Plant-Specific Departure:

Information related to in-service testing requirements, functional requirements, environmental qualification requirements are changed, and editorial/consistency changes for valves in numerous systems are made.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 3, 5, 6, 9, 10 and 11.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-014 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Revisions for Post-Accident Environmental Conditions and Thermal Aging Calculation

Brief Description of the Plant-Specific Departure:

The pressure and temperature equipment qualification (EQ) curves for in-containment EQ testing and analyses are replaced with single bounding curves; the reference to the EQ design envelope figures is corrected; and the discussion of the use of the Arrhenius equation, selection activation energy, and the application of small time increments for determining post-accident aging times is clarified.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-018 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Additional Changes to the VEGP Units 3 and 4 Construction Sequence
To Support Auxiliary Building Delays

Brief Description of the Plant-Specific Departure:

The construction sequence limitations for the delayed Auxiliary Building case are expanded to allow construction of the Shield Building, containment vessel and containment internal structures to proceed to higher elevations.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-019 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Changes to Support Hot Water Heating System (VYS) Functionality

Brief Description of the Plant-Specific Departure:

The cross-connection capability between electrical buses that previously provided a method of powering the auxiliary boiler from a standby diesel generator during a loss of offsite power (LOOP) is removed. The use of a temporary (portable) boiler to provide auxiliary steam to VYS during a LOOP is added.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 8, 9 and 10.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-024 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Change to Yield Strength Limit for Cold-Worked Austenitic Stainless Steel for Engineered Safety Feature (ESF) Components

Brief Description of the Plant-Specific Departure:

The fabrication requirements for ESF components are clarified to specify that cold-worked austenitic stainless steels having a minimum yield strength limit of greater than 90,000 psi are not used for pressure boundary ESF components in contact with reactor coolant.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 6.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

<u>Departure Number:</u>	LDCR-2016-032	License Amendment:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Exemption:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Unit 3 Amendment No.:	N/A
		Unit 4 Amendment No.:	N/A

Departure Title: Service Level II Coatings

Brief Description of the Plant-Specific Departure:

The description of nonsafety-related Service Level II coatings inside containment is changed to allow delamination under design basis accident (DBA) test conditions, and to clarify procurement requirements for these coatings.

This departure resulted in changes to UFSAR (plant-specific DCD) Chapters 1 and 6.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.

Departure Number: LDCR-2016-037 **License Amendment:** Yes ☐ No ☒
Exemption: Yes ☐ No ☒
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: In-containment Refueling Water Storage Tank (IRWST) Surface Coatings Changes

Brief Description of the Plant-Specific Departure:

The non-applicability of 10 CFR Part 50, Appendix B, and design basis accident (DBA) testing is expanded to the area outside of the wall of the IRWST and the Chemical and Volume Control System (CVS) Room. A clarification is made in the Service Level II coatings program discussion statement for “any anomalies” found during construction to mean “application anomalies.”

This departure resulted in changes to UFSAR (plant-specific DCD) Chapter 6.

Summary of the Evaluation:

This plant-specific departure did not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2* information or the Technical Specifications. A 10 CFR 52 Appendix D, Section VIII screening/simplified evaluation determined that NRC approval was not required prior to implementing this departure.