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January 6, 2022

Docket No.: 52-025
52-026

ND-22-0003
10 CFR 50.59
10 CFR 52 App. D

U.S. Nuclear Regulatory Commission
ATTN: 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 (VEGP) Units 3 and 4, Combined License (COL) numbers NPF-91 and NPF-92, respectively, in accordance with 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.

Enclosure 1 provides the report containing a brief description of any changes, tests, and experiments, including a summary of the evaluation of each, as required by 10 CFR 50.59(d)(2), for the period of May 12, 2021 through November 11, 2021.

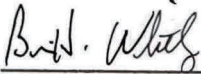
Enclosure 2 provides the report containing a brief description of any plant-specific departures, including a summary of the evaluation of each, as required by 10 CFR 52, Appendix D, paragraphs X.B.1 and X.B.3.b, for the period of May 12, 2021 through November 11, 2021.

For the period of May 12, 2021 through November 11, 2021, there were no changes made to Tier 2* information pursuant to the exemption in License Condition 2.D.(13)(a).

This letter makes no regulatory commitments. This letter has been reviewed and determined not to contain security-related information.

If you have questions, please contact Ms. Stephanie Agee at 205-992-7556.

Respectfully submitted,



Brian H. Whitley
Regulatory Affairs Director
Southern Nuclear Operating Company

- Enclosures:
- 1) VEGP Units 3 and 4, 10 CFR 50.59 Report of Changes, Tests, or Experiments for the Period of May 12, 2021 through November 11, 2021
 - 2) VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

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Enclosure 1

VEGP Units 3 and 4

**10 CFR 50.59 Report of Changes, Tests, or Experiments
for the Period of May 12, 2021 through November 11, 2021**

(This Enclosure consists of 2 pages, including this cover page)

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Enclosure 1

VEGP Units 3 and 4, 10 CFR 50.59 Report of Changes, Tests, or Experiments for the Period of May 12, 2021 through November 11, 2021

Change Number: LDCR-2019-100

Title: Permanent Cut and Fill Slope Stability Study (NL-1437)

Brief Description of the Changes, Tests and Experiments:

The slope stability analysis for permanent cut and fill slopes was updated to establish an alternate maximum quantified slope criterion for the evaluation of stockpile slopes located within 1,000 ft. of safety-related structures.

Summary of the Evaluation:

This change did not result in 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; or result in a departure from a method of evaluation.

The 10 CFR 50.59 evaluation determined that NRC approval was not required prior to implementing this change.

Southern Nuclear Operating Company

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Enclosure 2

VEGP Units 3 and 4

**10 CFR 52, Appendix D Departure Report
for the Period of May 12, 2021 through November 11, 2021**

(This Enclosure consists of 11 pages, including this cover page)

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Enclosure 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-022	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: Equipment Qualification Programs

Brief Description of the Plant-Specific Departure:

This departure revised equipment qualification program designations in the UFSAR. In addition, component identifications were added, expanded, renamed or relocated.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-024	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: Main Control Room Floor Register Balancing

Brief Description of the Plant-Specific Departure:

This departure revised UFSAR text to state that the nuclear island nonradioactive ventilation system airflow rates are measured and balanced to be within specified design flow rate ranges.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-023	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: Onsite Chemical Evaluations

Brief Description of the Plant-Specific Departure:

This departure revised several tables in the UFSAR to incorporate the use of revised and additional chemicals. This change implements a revision to the chemical contents of storage tanks onsite and reflects the removal of unused tanks from the design.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-021	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: Annex Building Area 4 Ventilation System Airflow

Brief Description of the Plant-Specific Departure:

This departure increased the temperature range of rooms in the Annex Building Area 4 office spaces and changed the location of the temperature sensors of the air supplied by annex/auxiliary buildings nonradioactive heating, ventilation, and air conditioning system (VXS) air handlers.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number: LDCR-2021-006 **License Amendment:** Yes No
Exemption: Yes No
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Passive Residual Heat Removal Heat Exchanger (PRHR HX) Inlet Isolation Valve Closure During Operation

Brief Description of the Plant-Specific Departure:

The process for identifying reactor coolant system leakage through a potential leak in a PRHR HX tube to the in-containment refueling water storage tank was revised by replacing the process that required closing the PRHR HX inlet isolation valve with a process that identifies PRHR HX tube leakage utilizing high temperature indication in the heat exchanger inlet piping along with changes in reactor coolant inventory balance and with no corresponding increase in various containment parameters (i.e., temperature, pressure, humidity, radiation, or containment sump level). Additional changes were made to remove text describing closing the PRHR HX inlet isolation valve when the reactor is operating, including testing of the PRHR HX discharge valves.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number: LDCR-2021-039 **License Amendment:** Yes No
Exemption: Yes No
Unit 3 Amendment No.: 188
Unit 4 Amendment No.: 186

Departure Title: Clarification of ITAAC Regarding In-vessel Components (LAR-21-001)

Brief Description of the Plant-Specific Departure:

This departure revised Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Nos. 68 (2.1.03.01), 75 (2.1.03.06.i), 515 (2.5.01.03e), 565 (2.5.05.02.i), and 570 (2.5.05.03b) to exclude location specific inspection of components whose final location is in the reactor vessel or otherwise will not meet the acceptance criterion, since the components cannot be placed in their final location until after core fuel load.

This departure resulted in changes to Tier 1 (plant-specific DCD) and COL Appendix C ITAAC.

Summary of the Evaluation:

This departure involved changes to Tier 1 information and COL Appendix C ITAAC; therefore, a License Amendment and Exemption Request (LAR-21-001) was submitted to the NRC.

The NRC approved this License Amendment and Exemption Request and issued License Amendments 188 and 186 to COL NPF-91 for VEGP Unit 3 and COL NPF-92 for VEGP Unit 4, respectively.

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Enclosure 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number: LDCR-2021-029 **License Amendment:** Yes No
Exemption: Yes No
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Temporary Equipment in Unit 3 Containment

Brief Description of the Plant-Specific Departure:

This departure reviews the impact of temporary modification equipment introduced into containment for startup testing of Unit 3.

This departure did not result in changes to the UFSAR (plant-specific DCD).

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-045	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: Neutron Shield Panel Peripheral Attachment Hardware Material

Brief Description of the Plant-Specific Departure:

This departure revised the UFSAR to reflect changes in material for specific internal structures and identify the use of specific ASTM A240 and ASTM A479 in limited applications for small components classified as internal structures such as locking cups, locking caps, and shims.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number: LDCR-2021-040 **License Amendment:** Yes No
Exemption: Yes No
Unit 3 Amendment No.: N/A
Unit 4 Amendment No.: N/A

Departure Title: Battery Room 40412 Exhaust Fan Motor Size Change

Brief Description of the Plant-Specific Departure:

This departure revised the UFSAR to increase the static pressure of the Battery Room 40412 Exhaust Fan.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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 2

VEGP Units 3 and 4, 10 CFR 52, Appendix D Departure Report for the Period of May 12, 2021 through November 11, 2021

Departure Number:	LDCR-2021-031	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 to UFSAR Fire Protection Figures and Descriptions

Brief Description of the Plant-Specific Departure:

This departure revised the fire rating of two walls to conform with the design basis, the architectural descriptions, and the associated fire area descriptions elsewhere in the UFSAR.

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

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, had no impact on plant operating procedures or a method of control that adversely affects a design function, did not result in a revision or replacement to a method of evaluation used in establishing design bases or in the safety analysis, did not represent tests or experiments outside the reference bounds of the design basis, and did 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.