

B. H. Whitley
Director
Regulatory Affairs

Southern Nuclear
Operating Company, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

Tel 205.992.7079
Fax 205.992.5296



December 11, 2015

Docket Nos.: 52-025
52-026

ND-15-2190
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.

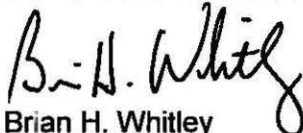
For the period of June 8, 2015, to December 1, 2015, there were no changes, tests or experiments made pursuant to paragraph (c) of 10 CFR 50.59.

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 June 8, 2015, to December 1, 2015.

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


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 June 8, 2015, to December 1, 2015

cc:

Southern Nuclear Operating Company / Georgia Power Company

Mr. S. E. Kuczynski (w/o enclosure)

Mr. J. A. Miller

Mr. D. G. Bost (w/o enclosure)

Mr. M. D. Meier

Mr. M. D. Rauckhorst

Mr. J. T. Gasser (w/o enclosure)

Mr. D. H. Jones (w/o enclosure)

Ms. K. D. Fili (w/o enclosure)

Mr. D. R. Madison

Mr. T.W. Yelverton

Mr. B. H. Whitley

Mr. C. R. Pierce

Mr. D. L. Fulton

Mr. M. J. Yox

Mr. J. C. Haswell

Mr. T. R. Takats

Mr. W. A. Sparkman

Mr. J. P. Redd

Document Services RTYPE: VND.LI.L00

File AR.01.02.06

Nuclear Regulatory Commission

Mr. V. M. McCree (w/o enclosure)

Mr. M. Delligatti (w/o enclosure)

Mr. L. Burkhart (w/o enclosure)

Mr. P. Kallan

Mr. C. Patel

Mr. W. C. Gleaves

Mr. B. M. Bovol

Ms. R. Reyes

Ms. M. A. Sutton

Mr. M. E. Ernstes

Mr. G. Khouri

Mr. L. M. Cain

Mr. J. D. Fuller

Mr. C. B. Abbott

Ms. S. Temple

Mr. I. A. Anchondo

State of Georgia

Mr. J. H. Turner

Oglethorpe Power Corporation

Mr. M. W. Price
Ms. K. T. Haynes
Ms. A. Whaley

Municipal Electric Authority of Georgia

Mr. J. E. Fuller
Mr. S. M. Jackson

Dalton Utilities

Mr. D. Cope
Mr. T. Bundros

CB&I

Mr. J. Simmons (w/o enclosure)
Ms. K. Stoner (w/o enclosure)
Mr. C. A. Castell

Westinghouse Electric Company, LLC

Mr. R. Easterling (w/o enclosure)
Mr. J. W. Crenshaw (w/o enclosure)
Mr. C. D. Churchman (w/o enclosure)
Mr. L. Woodcock
Mr. P. A. Russ
Mr. G. F. Couture
Mr. M. Y. Shaqqo

Other

Mr. J. E. Hesler, Bechtel Power Corporation
Ms. L. A. Matis, Tetra Tech NUS, Inc.
Dr. W. R. Jacobs, Jr., Ph.D., GDS Associates, Inc.
Mr. S. Roetger, Georgia Public Service Commission
Ms. S. W. Kernizan, Georgia Public Service Commission
Mr. K. C. Greene, Troutman Sanders
Mr. S. Blanton, Balch Bingham
Mr. R. Grumbir, APOG
Mr. J. R. Bouknight, South Carolina Electric & Gas Company
Mr. D. Kersey, South Carolina Electric & Gas Company
Mr. B. Kitchen, Duke Energy
Mr. S. Franzone, Florida Power & Light

Southern Nuclear Operating Company

ND-15-2190

Enclosure 1

Vogtle Electric Generating Plant (VEGP) Units 3 and 4

Semi-Annual Departure Report

for the Period of

June 8, 2015 to December 1, 2015

(46 pages, including this cover page)

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2012-029

Departure Title: Reconciliation of Tier 1 Valve Differences (LAR-13-021)

Brief Description of the Plant-Specific Departure:

Details regarding information for valves (i.e., tag numbers, valve descriptions, active functions, safety related displays) in the Component Cooling Water System (CCS), Chemical and Volume Control System (CVS), Passive Containment Cooling System (PCS), Passive Core Cooling System (PXS), Reactor Coolant System (RCS), Normal Residual Heat Removal System (RNS) and Main Control Room Emergency Habitability System (VES) are updated in the VEGP 3&4 UFSAR (plant-specific DCD), VEGP 3&4 (plant-specific) Tier 1 document and COL Appendix C ITAAC to reconcile inconsistencies identified in the various tables listing these valves.

Summary of the Evaluation:

This departure involved changes to Tier 1 information, COL Appendix C ITAAC, and Tier 2 information in the UFSAR which involved changes to Tier 1 information; therefore, a License Amendment and Exemption Request (LAR-13-021) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 39 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-119

Departure Title: Control Rod Drive Mechanism Motor Generator Set Field Relay Change
(LAR-15-002)

Brief Description of the Plant-Specific Departure:

Control Rod Drive Mechanism (CRDM) latching control relays are used in lieu of field breakers to open the CRDM motor generator (MG) set generator field on a Diverse Actuation System (DAS) signal. This portion of the departure required changes to the VEGP 3&4 (plant-specific) Tier 1 document, COL Appendix C (ITAAC) and Tier 2 information in the Technical Requirements Manual (TRM) and the VEGP 3&4 UFSAR (plant-specific DCD).

A second portion of this departure changes Tier 2 information in the UFSAR to remove the specific horsepower rating of the two MG sets, add dedicated control cabinets for the MG sets, and clarify that the MG sets include a synchronous generator. These changes impact UFSAR Chapters 7 and 9.

Summary of the Evaluation:

This departure involved changes to Tier 1 information, COL Appendix C ITAAC, and Tier 2 information in the Technical Requirements Manual (TRM) and the UFSAR which involved changes to Tier 1 information; therefore, a License Amendment and Exemption Request (LAR-15-002) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 38 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-124

Departure Title: Addition of Acceptable Means for Double Isolation

Brief Description of the Plant-Specific Departure:

Pipe plugs or tube plugs are added as an additional means for providing double isolation on line connections such as vent and drain lines, test connections, pressure points, flow element test points, flush connections, local sample points, and bypass lines. In addition, screwed caps are removed as an option for double isolation. This change impacts UFSAR (plant-specific DCD) Chapter 6.

Summary of the Evaluation:

This plant-specific departure to add pipe plugs and tube plugs and remove screwed caps as an additional means for double isolation does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-127

Departure Title: Initial Test Program (ITP) Changes (LAR-14-010)

Brief Description of the Plant-Specific Departure:

The ITP is revised to remove construction and installation testing and to replace it with component testing. The timing for test specifications and procedures availability is clarified. The scope of the ITP Administrative Manual is expanded to include component testing. Various other administrative changes are made for continuity within the licensing basis. These changes impacted the VEGP 3&4 (plant-specific) Tier 1 document, VEGP 3&4 COL and VEGP 3&4 UFSAR (plant-specific DCD).

Summary of the Evaluation:

This departure involved Tier 1 information, COL changes, and Tier 2 information which involved changes to Tier 1 information; therefore, a License Amendment and Exemption Request (LAR-14-010) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 34 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-132

Departure Title: Piping Line Number Additions, Deletions and Functional Capability
Re-Designation (LAR-13-031)

Brief Description of the Plant-Specific Departure:

Piping line names and line numbers are added, updated or deleted and ASME Code Section III, leak before break, and functional capability requirements are changed for the Normal Residual Heat Removal System (RNS), Passive Containment Cooling System (PCS), Passive Core Cooling System (PXS), Reactor Coolant System (RCS), Sanitary Discharge System (SDS), Spent Fuel Pool Cooling System (SFS) and Containment Air Filtration System (VFS). These changes impact VEGP 3&4 (plant-specific) Tier 1 document 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-13-031) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 41 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-138

Departure Title: Modification of the Epoxy Topcoat on the Containment Vessel Interior Shell

Brief Description of the Plant-Specific Departure:

A new exception to Regulatory Guide 1.54, Rev. 2, Service Level I, II and III Protective Coatings Applied to Nuclear Power Plants, is taken. The exception makes ASTM D3911-08, Standard Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions, acceptance criteria not applicable to Service Level I epoxy top coat applied over inorganic zinc.

Descriptions of the coating on the inside of the containment vessel are revised to state that epoxy coating no longer extends above the operating floor and will stop at the operating floor and phenolic top coat is changed to epoxy top coat.

A change is made to distinguish between the inorganic zinc and epoxy top coat's coating functions / safety classifications. Changes are made to specify that the "Nondetachable" coating function only applies to the inorganic zinc, and the "Enhance radioactive decontamination" coating function only applies to the epoxy and is being changed to a "Nonsafety" classification. Also, a fourth function, "Ensure settling," is added, and only applies to the epoxy coating. Finally, note 9 is added to the "Heat conduction" coating function (for shell surfaces above the operating floor).

These changes impact UFSAR (plant-specific DCD) Chapters 1, 3 and 6.

Summary of the Evaluation:

This plant-specific departure to the epoxy topcoat on the Containment Vessel interior shell does 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, or the consequences of an accident or malfunction. This plant-specific departure does not 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 result in a substantial increase in the probability of an ex-vessel severe accident previously determined to not be creditable such that it would become creditable.

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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2014-140

Departure Title: Component Cooling Water System (CCS) Changes Inside Containment

Brief Description of the Plant-Specific Departure:

The CCS piping and component configuration inside containment is changed to balance the flow. CCS flow orifices and flow elements are relocated. The order of flow through the components cooled by the CCS is changed to improve system performance. These changes are reflected in UFSAR (plant-specific DCD) Figure 9.2.2-1 and Figure 9.2.2-2.

Summary of the Evaluation:

This plant-specific departure to the CCS piping and component configuration inside containment to balance flow does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-009

Departure Title: Human Factors Verification and Validation Plan Updates to Support Integrated System Validation (LAR-15-001)

Brief Description of the Plant-Specific Departure:

Information within Westinghouse Topical Reports APP-OCS-GEH-120, AP1000 Human Factors Engineering Design Verification Plan, APP-OCS-GEH-220, AP1000 Human Factors Engineering Task Support Verification Plan, and APP-OCS-GEH-320, AP1000 Human Factors Engineering Integrated System Validation Plan is updated to align these documents with other parts of the Integrated System Validation (ISV) Plan, update mapping of the Risk-Important Human Actions (RIHA) to the accident scenarios used to demonstrate them during performance of the ISV, and provide clarifications and editorial corrections.

These changes are reflected in the update of the revision numbers for APP-OCS-GEH-120 to Revision 3, APP-OCS-GEH-220 to Revision 4, and APP-OCS-GEH-320 to Revision 6 in UFSAR (plant-specific DCD) Table 1.6-1 and Subsection 18.11.2.

Summary of the Evaluation:

This departure involved Tier 2* information and Tier 2 information which involved changes to Tier 2* information; therefore, a License Amendment Request (LAR-15-001) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 35 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-044

Departure Title: Equipment Classification Updates

Brief Description of the Plant-Specific Departure:

UFSAR (plant-specific DCD) Chapter 3 is revised to update the classification of mechanical and fluid systems, components, and equipment and to correct editorial errors, add components, delete unneeded components, simplify components and correct consistency errors.

Summary of the Evaluation:

This plant-specific departure to update the classification of mechanical and fluid systems, components, and equipment and other changes to UFSAR Chapter 3 does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-054

Departure Title: Change to Steam Supply for the Hot Water Heating System (VYS)

Brief Description of the Plant-Specific Departure:

The source of steam for the VYS is changed to main steam and the configuration of the main steam supply to the Auxiliary Steam System (ASS) and the Gland Seal System (GSS) is revised. This change impacts UFSAR (plant-specific DCD) Chapters 9 and 10.

Summary of the Evaluation:

This plant-specific departure to VYS and main steam supply does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-056

Departure Title: Shield Building Panel Faceplate Weld Alignment Tolerance Change

Brief Description of the Plant-Specific Departure:

The design-specific tolerances for alignment of the faceplates at welds connecting the shield building structural wall modules are modified to allow up to a 0.125 inch alignment tolerance, which modifies plate alignment tolerances specified in AWS D1.1-2000. This change impacts UFSAR (plant-specific DCD) Subsection 3.8.4.6.3.

Summary of the Evaluation:

This plant-specific departure to the shield building structural wall module faceplate allowable alignment tolerance does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-057

Departure Title: Annex and Auxiliary Building Layout Changes

Brief Description of the Plant-Specific Departure:

The Auxiliary Building layout is changed to add a fire rated door, modify a radiation door, and to change the swing of a door. The Annex Building layout is changed by swapping the location of a hydraulic lift and a stairwell. UFSAR (plant-specific DCD) Chapters 1, 9 and 12 are modified to reflect these changes.

Summary of the Evaluation:

This plant-specific departure to doors, a hydraulic lift and stairwells in the Annex and Auxiliary Buildings does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-060

Departure Title: Addition of Vents for Passive Residual Heat Removal (PRHR) Heat Exchanger Flow Transmitters

Brief Description of the Plant-Specific Departure:

Four seismic Category I, ASME Code Section III, Class 2 vent valves, and associated piping are added to the Passive Core Cooling System (PXS), upstream and downstream of the existing PRHR heat exchanger flow transmitters. The addition of the valves is reflected in several tables in UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This plant-specific departure to add vent valves to the PRHR flow transmitters does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-063

Departure Title: Changes to In-Core Instrumentation (ICI) Guide Tube Configuration

Brief Description of the Plant-Specific Departure:

The depiction of the location of the ICI penetrations through the reactor vessel head is corrected in UFSAR (plant-specific DCD) Figure 4.2-8.

Summary of the Evaluation:

This plant-specific departure to correct the ICI penetration locations does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-064

Departure Title: Central Chilled Water System (VWS) Logic Changes

Brief Description of the Plant-Specific Departure:

The high capacity VWS chillers are modified to permit automatic start of the non-selected/non-operating chiller if the selected/operating chiller fails. This change impacts figures and text in UFSAR (plant-specific DCD) Chapter 9.

Summary of the Evaluation:

This plant-specific departure to change the logic for the high capacity VWS chillers does 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, or the consequences of an accident or malfunction. This plant-specific departure does not 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 result in a substantial increase in the probability of an ex-vessel severe accident previously determined to not be creditable such that it would become creditable.

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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-067

Departure Title: Changes to the Steam Generator Supports

Brief Description of the Plant-Specific Departure:

The design of the steam generator lateral supports is modified, and design details have been updated for the steam generators. Jurisdictional code boundary information is also added between the concrete embedment and the steam generator vertical column supports. These changes impact UFSAR (plant-specific DCD) Figure 3.8.3-5 and Subsection 5.4.10.2.2.

Summary of the Evaluation:

This plant-specific departure to the steam generator lateral supports and the addition of the code boundary does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-070

Departure Title: Changes to Stairwell Pressurization in the Auxiliary Building and Annex Building

Brief Description of the Plant-Specific Departure:

The Nuclear Island Nonradioactive Ventilation System (VBS) supply and return to Auxiliary Building stairwells S01, S02, and S05 are removed. The Radiologically Controlled Area Ventilation System (VAS) supply and return to Auxiliary Building stairwell S04 are removed. The Annex/Auxiliary Non-Radioactive Ventilation System (VXS) supply and return to Annex Building stairwells S01, S03, and S04 are removed. The Health Physics and Hot Machine Shop HVAC System (VHS) supply and return to Annex Building stairwell S02 are removed. Dedicated pressurization fans are retained to serve Auxiliary Building stairwells S01 and S02. These changes are reflected in various subsections and tables of UFSAR (plant-specific DCD) Section 9.4 and Appendix 9A.

Summary of the Evaluation:

This plant-specific departure to the stairwell pressurization in the Auxiliary Building and Annex Building does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-074

Departure Title: Supplemental Requirements for Mechanical Coupler Weld
Acceptability (LAR-15-010)

Brief Description of the Plant-Specific Departure:

The design requirements for welding of mechanical weldable couplers to structural steel are changed to allow the use of American Institute of Steel Construction (AISC) N690-1994 Stress Limit Coefficient (SLC) of 1.6, for rebar sizes #4, #5, and #6 C2/C3J couplers and to demonstrate the required weld capacity through analysis. For rebar sizes #7 through #11 C2/C3J couplers, the requirements are changed to allow testing to demonstrate the weld capacity. This change impacts UFSAR (plant-specific DCD) Subsection 3.8.4.5.1.

Summary of the Evaluation:

This departure involved Tier 2* information, and Tier 2 information in the UFSAR which involved changes to Tier 2* information; therefore, a License Amendment Request (LAR-15-010) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 40 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-075

Departure Title: Addition of Local Level Indication to the Chemical and Volume Control System (CVS) Chemical Mixing Tank

Brief Description of the Plant-Specific Departure:

Local level indication is added to the chemical mixing tank in the CVS. This change impacts UFSAR (plant-specific DCD) Figure 9.3.6-1.

Summary of the Evaluation:

This plant-specific departure to add local level indication to the chemical mixing tank does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-076

Departure Title: Containment Air Filtration System (VFS) Penetration Piping Configuration Change

Brief Description of the Plant-Specific Departure:

The design of the VFS is changed to remove the capped connection points on the VFS supply and exhaust air lines. Also, two fire dampers are removed from the penetration between the Annex Building and Auxiliary Building and the piping class break is relocated to the inside of the Annex Building. These changes impact UFSAR (plant-specific DCD) Subsection 9.4.7.2.1 and Figure 9.4.7-1.

Summary of the Evaluation:

This plant-specific departure to the VFS does 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, or the consequences of an accident or malfunction. This plant-specific departure does not 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 result in 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-077

Departure Title: Clarification of Moderator Temperature Coefficients (MTC) and Moderator Density Coefficients (MDC) Behavior

Brief Description of the Plant-Specific Departure:

UFSAR (plant-specific DCD) Subsection 4.3.2.3.2.1 is revised to clarify and separate the behavior of Moderator Temperature Coefficients (MTC) and Moderator Density Coefficients (MDC) on burn-up and boron concentration and is also revised to remove a statement regarding the removal of the Doppler coefficient from the results in UFSAR Figures 4.3-21 through 4.3-23.

The Technical Specification (TS) Bases 3.1.3, Moderator Temperature Coefficient (MTC) REQUIRED ACTION A.1 is revised to clarify that early in the operating cycle the Reactor Coolant System (RCS) critical boron concentration may increase with burnup.

Summary of the Evaluation:

This plant-specific departure to clarify MTC and MDC in the UFSAR and TS Bases does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-078

Departure Title: Squib Valve Qualification Program Changes

Brief Description of the Plant-Specific Departure:

The qualification program of the squib valves in support of Passive Core Cooling System (PXS) Testing, as described in UFSAR (plant-specific DCD) Subsection 14.2.9.1.3, Paragraph (t), is changed to remove the requirement to determine squib valve flow resistance during squib valve qualification testing, add a statement to clarify that squib valve functionality is validated via lot acceptance testing, and add a statement to describe the squib valve qualification program as validating flow through the actuated squib valves.

Summary of the Evaluation:

This plant-specific departure to the PXS squib valve qualification program does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-079

Departure Title: Use of American Welding Society (AWS) D1.1-2000 Criteria for Structural Welds (LAR-15-009)

Brief Description of the Plant-Specific Departure:

The requirements for welding of seismic Category I and seismic Category II structures is revised to use AWS D1.1-2000, Structural Welding Code-Steel, instead of the AWS D1.1-1992 version identified in American Institute of Steel Construction (AISC) N690-1994, Specification for the Design, Fabrication, and Erection of Steel Safety-Related Structures for Nuclear Facilities. Supplemental provisions are added for AWS D1.1-2000 to supplement or replace provisions found in AISC N690-1994. The above changes are reflected in information in UFSAR (plant-specific DCD) Chapter 3.

Summary of the Evaluation:

This departure involved Tier 2* information, and Tier 2 information in the UFSAR which involved changes to Tier 2* information, therefore, a License Amendment Request (LAR-15-009) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 37 to COLs NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-082

Departure Title: Removal of Blanketing Steam from the Moisture Separator Reheater and Feedwater Heaters

Brief Description of the Plant-Specific Departure:

The use of blanketing steam for layup of the moisture separator reheaters and feedwater heaters is eliminated and replaced with nitrogen blanketing. The location of the crossover pipe temperature indicators is changed from downstream to upstream of the reheat stop valves. The location of the extraction steam pressure measurement points is clarified. Low pressure turbine exhaust hood pressure is removed as an indicated parameter and replaced with low pressure turbine exhaust hood spray pressure. These changes are reflected in UFSAR (plant-specific DCD) Chapter 10.

Summary of the Evaluation:

This plant-specific departure to the moisture separator reheaters and feedwater heaters does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-084

Departure Title: Containment Hydrogen Igniter Design Change

Brief Description of the Plant-Specific Departure:

The design of the containment hydrogen igniters is changed to a heated coil igniter. UFSAR (plant-specific DCD) Chapters 6, 8 & 19 are revised to incorporate this change.

Summary of the Evaluation:

This plant-specific departure to the containment hydrogen igniters does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-085

Departure Title: Reactor Vessel Closure Head (RVCH) Shipping Enclosure Attachment

Brief Description of the Plant-Specific Departure:

The design of the RVCH shipping enclosure is changed to attach to the RVCH flange instead of to the ventilation shroud support ring. This change results in a revision to UFSAR (plant-specific DCD) Subsection 5.3.4.5.

Summary of the Evaluation:

This plant-specific departure to the design of the RVCH shipping enclosure does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-086

Departure Title: Change to Construction Sequence

Brief Description of the Plant-Specific Departure:

The construction sequence limitations, described in UFSAR (plant-specific DCD) Subsection 3.8.5.4.2 for the delayed Auxiliary Building case, are expanded to allow Shield Building and containment structure construction to proceed to higher elevations with less of the Auxiliary Building structure completed.

Summary of the Evaluation:

This plant-specific departure to expand the construction sequence for the delayed Auxiliary Building case does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-088

Departure Title: Initial Test Program (ITP) Administrative Changes

Brief Description of the Plant-Specific Departure:

Several changes were made to ITP administrative descriptions, to clarify roles and responsibilities, training requirements, and oversight activities. These changes are depicted in UFSAR (plant-specific DCD) Chapter 14.

Summary of the Evaluation:

This plant-specific departure to the ITP does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-091

Departure Title: Revision to Material Acceptable for Use in Valves in the Reactor Coolant System (RCS)

Brief Description of the Plant-Specific Departure:

Materials acceptable for use in valve bodies, bonnets and discs in the RCS are changed to add American Society of Mechanical Engineers (ASME) SA-351, CF3 and remove ASME SA-182, F304LN and F316LN. These changes are depicted in UFSAR (plant-specific DCD) Table 5.2-1.

Summary of the Evaluation:

This plant-specific departure to add ASME SA-351, CF3 and to remove ASME SA-182, F304LN and F316LN for use in RCS valves does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-092

Departure Title: Relocation of Hydrogen Igniters Inside Containment

Brief Description of the Plant-Specific Departure:

Four Containment Hydrogen Control System (VLS) hydrogen igniters are relocated from the 233-foot level on the containment polar crane, to the 218-foot level on the girder ring. UFSAR (plant-specific DCD) Chapter 6 tables and figures are revised to reflect this change.

Summary of the Evaluation:

This plant-specific departure to relocate four Containment hydrogen igniters does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-093

Departure Title: UFSAR Figure 1.2-7 Title Correction

Brief Description of the Plant-Specific Departure:

The title of UFSAR (plant-specific DCD) Figure 1.2-7 is changed to “Nuclear Island General Arrangement Plan at Elevation 100'-0" & 107'-2".”

Summary of the Evaluation:

This plant-specific departure to revise the title of UFSAR Figure 1.2-7 does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-095

Departure Title: Consistency Changes to Passive Core Cooling System (PXS) Valve Actuation

Brief Description of the Plant-Specific Departure:

UFSAR (plant-specific DCD) Figure 6.3-2, Table 14.3-6, and Table 19.59-18 are revised to clarify that the Containment Recirculation Isolation motor operated valves are not manually actuated by the Diverse Actuation System (DAS).

Summary of the Evaluation:

This plant-specific departure to clarify the functional requirements of the Containment Recirculation Isolation motor operated valves does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-098

Departure Title: Passive Core Cooling System (PXS) Pipe Class Boundary Relocation

Brief Description of the Plant-Specific Departure:

Three pipe class boundary locations in the PXS are changed. This change impacts figures in UFSAR (plant-specific DCD) Chapter 6.

Summary of the Evaluation:

This plant-specific departure to relocate three PXS pipe class boundaries does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-099

Departure Title: Material Change for Central Chilled Water System (VWS) Pumps

Brief Description of the Plant-Specific Departure:

The material of the VWS pumps is changed to use either ductile iron or carbon steel. This change impacts UFSAR (plant-specific DCD) Subsection 9.2.7.2.2.

Summary of the Evaluation:

This plant-specific departure to the material used for the VWS pumps does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-101

Departure Title: Design Changes to the Pressurizer Configuration

Brief Description of the Plant-Specific Departure:

The Pressurizer lifting trunnions are rotated to the 135 degree and 315 degree positions, in line with the safety nozzles. UFSAR (plant-specific DCD) Figure 3.8.3-6 and Figure 5.4-5 are revised to depict this change.

The Pressurizer design and fabrication is changed such that it has three sections with a single lower section baffle. UFSAR Figure 3.8.3-6 and Subsection 5.4.5.2.1 are revised to depict this change.

Summary of the Evaluation:

This plant-specific departure to change the design of the Pressurizer does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-104

Departure Title: Control Logic Change to Ensure Adequate Net Positive Suction Head (NPSH) Available to the Chemical and Volume Control System (CVS) Makeup Pumps

Brief Description of the Plant-Specific Departure:

The design of the Protection and Safety Monitoring System (PMS) functional logic, as depicted in UFSAR (plant-specific DCD) Figure 7.2-1, is modified to add a 9-second time delay to the closure of the Demineralized Water Transfer and Storage System (DWS) isolation valves in the CVS.

Summary of the Evaluation:

This plant-specific departure to add a time delay to the logic for the closure time of the CVS isolation valves does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-106

Departure Title: Change to the Flow Path from the New Fuel Pit Drains

Brief Description of the Plant-Specific Departure:

Radioactive waste drainage from the new fuel pit is changed to drain to the Auxiliary Building sump and then be pumped to the Liquid Radwaste System (WLS) waste holdup tanks. This change impacts UFSAR (plant-specific DCD) Subsection 9.1.1.2.

Summary of the Evaluation:

This plant-specific departure to the drainage flow path from the new fuel pit drains does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-109

Departure Title: Class 1E Division Assignments for Valves and Reactor Coolant Pump (RCP) Shaft Speed Sensors

Brief Description of the Plant-Specific Departure:

The Class 1E Division assignments for the Passive Residual Heat Removal (PRHR) heat exchanger control valves in the Passive Core Cooling System (PXS), the Steam Generator System (SGS) startup feedwater isolation valves, and RCP-1B and 2A shaft speed sensors are changed. These changes are depicted in UFSAR (plant-specific DCD) Appendix 9A.

Summary of the Evaluation:

This plant-specific departure to change the Class 1E Division assignments for the valves and speed sensors does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-110

Departure Title: Potable Water Heaters for the Main Control Room (MCR) and
Turbine Building Secondary Sampling Laboratory

Brief Description of the Plant-Specific Departure:

The Potable Water System (PWS) inline water heaters in the MCR men's restroom and the Turbine Building Secondary Sampling Laboratory are replaced with tank-type water heaters. This change is described in UFSAR (plant-specific DCD) Chapters 3 and 9.

Summary of the Evaluation:

This plant-specific departure to the type of PWS water heaters does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-111

Departure Title: Steam Generator Primary to Secondary Differential Pressure Limit

Brief Description of the Plant-Specific Departure:

The maximum allowable steam generator primary to secondary differential pressure limit is changed to 1650 psi. This change impacts UFSAR (plant-specific DCD) Subsection 3.9.1.1.1.14 and Table 5.4-4.

Summary of the Evaluation:

This plant-specific departure to the maximum allowable steam generator primary to secondary differential pressure limit does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-114

Departure Title: Modification of the Grounding System for the Auxiliary Boiler Electrical Power Supply

Brief Description of the Plant-Specific Departure:

The design of the auxiliary boiler electrical power supply is changed by removing the grounding resistor from the Unit Auxiliary Transformer to make it solidly grounded. This change impacts UFSAR (plant-specific DCD) Subsection 8.3.1.1.7 and Figure 8.3.1-1.

Summary of the Evaluation:

This plant-specific departure to the grounding system for the auxiliary boiler electrical power supply does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-117

Departure Title: Passive Containment Cooling Water Storage Tank (PCCWST) Testing Parameters

Brief Description of the Plant-Specific Departure:

The water level of the PCCWST used for testing the minimum allowable flowrate is changed to 27.5 feet (nominal) above the tank floor. This change impacts UFSAR (plant-specific DCD) Table 3.9-17.

Summary of the Evaluation:

This plant-specific departure to the PCCWST water level used for testing does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-119

Departure Title: Modifications for Core Makeup Tank (CMT) Discharge Check Valves

Brief Description of the Plant-Specific Departure:

The Passive Core Cooling System (PXS) CMT discharge check valves are redesigned to include new test connections integral to the valve body on the downstream side of the valves. The existing test connection lines are relocated to the new downstream test connection on the check valve bodies. Vent connections upstream of the CMT discharge check valves are relocated from the top to the bottom of the piping and are changed from a test vent to a test connection. These changes impact UFSAR (plant-specific DCD) Subsection 6.3.6.3.2 and Figure 6.3-1.

Summary of the Evaluation:

This plant-specific departure to the CMT discharge check valves and associated test and vent connections does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-121

Departure Title: Correction to Through-Wall Crack Exclusion Criteria

Brief Description of the Plant-Specific Departure:

The reference in UFSAR (plant-specific DCD) Subsection 3.6.2.1.1.4 is revised to correctly identify ASME Code Section III, paragraph NC-3652 instead of NC-3653. The maximum stress range in UFSAR Subsection 3.6.2.1.2.2 for not postulating a through wall crack in the break exclusion areas of high-energy piping is increased to 1.8 Sh, and is clarified to state that Service Level A and B conditions apply. In UFSAR Subsection 3.6.2.1.2.2 Item C, the phrase "in the piping" is removed.

Summary of the Evaluation:

This plant-specific departure to correct the code reference and code equations for defining break exclusion criteria does 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 evaluation determined that NRC approval was not required prior to implementing this departure.

ND-15-2190
Enclosure 1
VEGP Units 3 and 4 Semi-Annual Departure Report
for the Period of June 8, 2015 to December 1, 2015

Departure Number: LDCR-2015-123

Departure Title: Relocation of Humidifiers to Inside the Main Control Room/Control Support Area (MCR/CSA) Supply Air Handling Units

Brief Description of the Plant-Specific Departure:

The existing Nuclear Island Nonradioactive Ventilation System (VBS) electric steam generating humidifiers are relocated to inside the MCR/CSA supply air handling units. This change is depicted in UFSAR (plant-specific DCD) Figure 9.4.1-1.

Summary of the Evaluation:

This plant-specific departure to relocate the humidifiers to inside the MCR/CSA supply air handling units does 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 evaluation determined that NRC approval was not required prior to implementing this departure.