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10 CFR 50.59

U.S. Nuclear Regulatory Commission  
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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, license numbers NPF-91 and NPF-92, pursuant to the reporting requirements of 10 CFR 50.59(d)(2) and 10 CFR 52, Appendix D, paragraphs X.B.1 and X.B.3.b.

For the period of December 8, 2014, to June 7, 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 December 8, 2014, to June 7, 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

A handwritten signature in black ink, appearing to read "B. H. Whitley".

Brian H. Whitley

BHW/GAB/ljs

Enclosure 1: Vogtle Electric Generating Plant (VEGP) Units 3 and 4, Semi-Annual Departure Report for the Period of December 8, 2014 to June 7, 2015

cc:

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**Southern Nuclear Operating Company**

**ND-15-1026**

**Enclosure 1**

**Vogtle Electric Generating Plant (VEGP) Units 3 and 4**

**Semi-Annual Departure Report**

**for the Period of**

**December 8, 2014 to June 7, 2015**

**(76 pages, including this cover page)**

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Enclosure 1  
VEGP Units 3 and 4 Semi-Annual Departure Report  
for the Period of December 8, 2014 to June 7, 2015

**Departure Number:** LDCR-2013-038

**Departure Title:** Reinforced Concrete (RC) to Steel Plate Composite Construction (SC)  
Connections (LAR-13-014)

**Brief Description of the Plant-Specific Departure:**

The design details of connections in several locations between the SC used for the Shield Building and the standard RC walls, floors, and roof of the Auxiliary Building and lower walls of the Shield Building are revised. The changes include shifting of connections due to interferences, modifying connections around penetrations, changing the thickness of the support plate, and using structural sleeves designed to replace tie bars that are displaced by penetrations through the Shield Building. The Auxiliary Building roof connection to the SC portion of the Shield Building is also revised. Faceplates in the connection region are thicker than the faceplates for standard Shield Building wall modules. Westinghouse Topical Report APP-GW-GLR-602, Revision 5 is incorporated by reference in the UFSAR (plant-specific DCD). This departure changes UFSAR Chapters 1 and 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-13-014) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 26 to Combined Licenses NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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**Departure Number:** LDCR-2013-077

**Departure Title:** Coating Thermal Conductivity (LAR-13-039)

**Brief Description of the Plant-Specific Departure:**

The methodology for determining the thermal conductivity of in-organic zinc (IOZ) used in the containment vessel coating system is changed from a non-mechanistic model to a model that can determine the effective thermal conductivity and oxidation progression over the lifetime of the plant. The change in methodology results in updates to information in UFSAR (plant-specific DCD) Chapters 1 and 6 to reflect the addition of WCAP-15846-P (Proprietary), Addendum 1 and WCAP-15846-NP (Non-Proprietary), Addendum 1, Effective Thermal Conductivity Model of Inorganic Zinc Coating for Application to AP1000, Revision 0, October 2013, to the licensing basis and clarification of the use in UFSAR Table 6.2.1.1-8, Physical Properties of Passive Heat Sinks.

**Summary of the Evaluation:**

This departure required prior NRC approval as determined by a departure evaluation, therefore, a License Amendment Request (LAR-13-039) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 31 to Combined Licenses NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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**Departure Number:** LDCR-2013-114

**Departure Title:** Component Interface Module (CIM) / Diverse Actuation System (DAS)  
Diversity (LAR-13-020)

**Brief Description of the Plant-Specific Departure:**

Four documents that are incorporated by reference into UFSAR (plant-specific DCD) Table 1.6-1, Material Referenced, are revised to clarify the position on design diversity, specifically human diversity, as it relates to the CIM and DAS design processes. The four modified documents that are incorporated by reference are WCAP-15775, WCAP-16438, WCAP-17179 and WCAP-17184. A new Appendix 7A, Instrumentation and Controls Licensing Basis Changes, is added to UFSAR Chapter 7 to modify information related to human diversity in the four WCAPs. Information associated with the four modified WCAPs is also updated in UFSAR Chapter 7.

**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-13-020) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 28 to Combined Licenses NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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**Departure Number:** LDCR-2014-041

**Departure Title:** Tier 1 Editorial and Consistency Changes (LAR-14-002)

**Brief Description of the Plant-Specific Departure:**

VEGP 3&4 (plant-specific) Tier 1 and the associated Unit 3 and Unit 4 COL Appendix C information are revised to correct editorial errors (e.g., typing, clerical, spelling, data entry, format, tag number changes) and/or consistency errors (e.g., inconsistencies between UFSAR (plant-specific DCD) (Tier 2) and COL Appendix C/Tier 1 information, and inconsistencies between information from different locations within COL Appendix C/Tier 1).

A second portion of this departure corrects the spelling of igniter(s) in UFSAR Table 16.3-1, List of Investment Protection Short-term Availability Controls, and the VEGP 3&4 Technical Requirements Manual (TRM).

**Summary of the Evaluation:**

Portions of this departure involved changes to Tier 1 information and COL Appendix C, therefore, a License Amendment and Exemption Request (LAR-14-002) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 30 to Combined Licenses 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.

That portion of the departure did not involve a change to Tier 1 information, Tier 2\* information or the Technical Specifications. A 10 CFR 50.59/10 CFR 52 Appendix D Section VIII review determined that no prior NRC approval was required.



**Departure Number:** LDCR-2014-063

**Departure Title:** Isolation of Chemical and Volume Control System (CVS) in a Loss Of Coolant Accident (LOCA) Event

**Brief Description of the Plant-Specific Departure:**

- In UFSAR (plant-specific DCD) Subsection 3.6.2.3, Dynamic Analysis Methods to Verify Integrity and Operability, a clarification is added that a break in the non-safety related portion of the CVS will not cause a break in the safety-related portion of the CVS, and that the ability to isolate Reactor Coolant System (RCS) flow will not be adversely affected. Further, the assumption that pipe breaks on the non-reactor side may cause a failure on the reactor side of the same pipe is removed.
- Room Number 11204 and all associated information is deleted from UFSAR Table 3.6-3, NI Rooms with Pipe Whip Restraints and Corresponding Hazard Sources and Essential Targets.
- UFSAR Subsection 5.2.1.3, Alternate Classification, is changed to state additional functions of the CVS isolation valves.

**Summary of the Evaluation:**

This plant-specific departure to clarify the CVS isolation of non-reactor LOCA events 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.

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VEGP Units 3 and 4 Semi-Annual Departure Report  
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**Departure Number:** LDCR-2014-064

**Departure Title:** Containment Internal Structural Module Design Details (LAR-14-001)

**Brief Description of the Plant-Specific Departure:**

This departure changes UFSAR (plant-specific DCD) Chapter 3 design details of the in-containment structural wall modules (CA01, CA02 and CA05). Additional details are provided to describe the use of horizontally oriented reinforcement bars, structural shapes, and shear studs mechanically attached or welded to the lower module faceplate, and embedded in the base concrete to transfer forces horizontally from the wall module faceplate to the base concrete. In addition, the proposed modifications permit shear-friction construction joint reinforcement, which is not attached to the module faceplate, to be included in construction joints at the transition between the base concrete and concrete in the modules. Structural wall module faceplate thicknesses are increased to be greater than the 0.5 inch nominal faceplate thickness in areas with a high local demand. Changes to the wall thicknesses for portions of some internal containment structural wall modules are identified and notes are added to figures to identify specific elevations for each sheet. Steel plates, structural shapes, reinforcement bars or tie bars are used to provide additional capacity in the portions of structural wall modules that experience high loads and to ensure compliance with applicable codes. The containment internal structure (CIS) critical section design summary tables are updated to reflect the results of an updated CIS analysis. The west wall of the In containment Refueling Water Storage Tank (IRWST) is clarified as not being considered a structural wall module.

**Summary of the Evaluation:**

This departure involved Tier 1 information, Combined License (COL) Appendix C information, Tier 2\* information, and Tier 2 information which involved changes to Tier 2\* information in the UFSAR therefore, a License Amendment and Exemption Request (LAR-14-001) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 29 to Combined Licenses NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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**Departure Number:** LDCR-2014-065

**Departure Title:** Clarification of Diverse Manual Reactor Trip Design

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Subsection 1.9.5.1.3, Anticipated Transients Without Scram (ATWS), is modified to correct the description of the connection between the manual reactor trip switches and the reactor trip switchgear. Additionally, a statement is added to clarify that the manual reactor trip signal does not pass through any Protection and Safety Monitoring System (PMS) based software.

**Summary of the Evaluation:**

This plant-specific departure to clarify the description of the ATWS mitigation related manual reactor trips 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.

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**Departure Number:** LDCR-2014-067

**Departure Title:** Turbine Building Switchgear Room and Office Area Layout Changes  
(LAR-14-005)

**Brief Description of the Plant-Specific Departure:**

The fire area barriers of the Turbine Building switchgear rooms on Elevations 141'-3" and 158'-7" of the Turbine Building are modified to accommodate the revised layout of the low and medium voltage switchgear and associated equipment. These changes are depicted in UFSAR (plant-specific DCD) Chapters 1 and 9.

A second portion of this departure changed the Turbine Building medium voltage switchgear load capacity as reflected in UFSAR Figure 8.3.1-1, AC Power Station One Line Diagram.

**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-14-005) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 32 to Combined Licenses 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.

That portion of the departure did not involve a change to Tier 1 information, Tier 2\* information or the Technical Specifications. A 10 CFR 50.59/10 CFR 52 Appendix D Section VIII review determined that no prior NRC approval was required.

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**Departure Number:** LDCR-2014-068

**Departure Title:** Pressurizer Venting During Normal Operations

**Brief Description of the Plant-Specific Departure:**

A pressurizer vent pathway is added to the Automatic Depressurization System (ADS) by two new connections of the ADS test lines downstream of RCS-PL-V007A/B. The new vent pathway empties into the Reactor Coolant Drain Tank (RCDT) and incorporates a new isolation valve. The Class 1 to Class 2 transition flow restrictors on the tap lines are reduced to 1/16" (0.0625") to protect the ADS test lines from thermal stress. This departure changes UFSAR (plant-specific DCD) Chapters 3, 5 and 11.

**Summary of the Evaluation:**

This plant-specific departure to add a pressurizer venting pathway to remove non-condensable gases during normal operations 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.

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**Departure Number:** LDCR-2014-073

**Departure Title:** Standby Diesel Fuel Oil System (DOS) Changes

**Brief Description of the Plant-Specific Departure:**

The design of the DOS is updated to change the position of valves DOS-PL-V006A/B from normally closed to normally open. Additionally, a leak detection monitoring and alarm system is added to the enclosed underground guard pipes. These changes are depicted in the DOS figures in UFSAR (plant-specific DCD) Figure 9.5.4-1.

**Summary of the Evaluation:**

This plant-specific departure to the DOS 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.

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**Departure Number:** LDCR-2014-075

**Departure Title:** Radioactive Waste Drain System (WRS) Design Change

**Brief Description of the Plant-Specific Departure:**

The design of the floor drains from the Waste Holdup Tanks Rooms to the WRS has changed. These drain lines include two normally closed isolation valves routed to the Auxiliary Building sump pumps. A new, normally open, isolation valve is added in the sump pump suction line. This change allows leakage into the Waste Holdup Tanks Rooms to be pumped to a waste holdup tank, rather than drain directly into the Auxiliary Building Sump. This change results in a clarification to UFSAR (plant-specific DCD) Appendix 1A, Regulatory Guide 1.143, Design Guidance for Radioactive Waste Management Systems, Structures, and Components Installed in Light-Water-Cooled Nuclear Power Plants, Criteria C.1.1.3.

**Summary of the Evaluation:**

This plant-specific departure to the WRS 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.

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**Departure Number:** LDCR-2014-082

**Departure Title:** Condensate Storage Tank Volume Change

**Brief Description of the Plant-Specific Departure:**

The total volume of the condensate storage tank is increased from 485,000 gallons to 657,000 gallons, as described in UFSAR (plant-specific DCD) Subsection 3.4.1.1.1, Protection from External Flooding, and Subsection 9.2.4.2.2, Component Description.

**Summary of the Evaluation:**

This plant-specific departure to increase the volume of the condensate storage 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.



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**Departure Number:** LDCR-2014-092

**Departure Title:** Liquid Radwaste System (WLS) Valve Direction and Positioning Changes

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Figure 11.2-2, Liquid Radwaste System Piping and Instrumentation Diagram, is changed to be consistent with the description of the WLS in Chapter 11. The direction of check valve WLS-PL-V161 is reversed to permit flow to the mobile treatment facility and the orientation of three-way valve WLS-PL-V120 is changed to indicate the left port is normally open.

**Summary of the Evaluation:**

This plant-specific departure to the WLS 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.

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**Departure Number:** LDCR-2014-094

**Departure Title:** Annex Building Structure and Layout Changes (LAR-13-038)

**Brief Description of the Plant-Specific Departure:**

This departure changes the Annex Building internal configuration to include an additional battery equipment room, moving a fire area wall, increasing the height of a room, and increasing certain floor thicknesses. The changes reconfigure existing rooms, including the related room, wall, and access path changes. These changes are depicted in VEGP 3&4 Tier 1 (plant-specific DCD) Figure 3.3-11A, Annex Building Plan View at Elevation 100'-0", and Table 3.3-1, Definition of Wall Thicknesses for Nuclear Island Buildings, Turbine Building, and Annex Building, and UFSAR (plant-specific DCD) Chapters 1, 3, 8, 9, 12, and 15.

A second portion of this departure changes Annex Building access corridors and editorial corrections to room identification information.

**Summary of the Evaluation:**

This departure involved Tier 1 information, Combined License (COL) Appendix C information, Tier 2\* information, and Tier 2 information which involved changes to Tier 2\* information in the UFSAR, therefore, a License Amendment and Exemption Request (LAR-13-038) was submitted to the NRC.

The NRC approved this departure and exemption and issued License Amendment 27 to Combined Licenses 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.

That portion of the departure did not involve a change to Tier 1 information, Tier 2\* information or the Technical Specifications. A 10 CFR 50.59/10 CFR 52 Appendix D Section VIII review determined that no prior NRC approval was required.

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**Departure Number:** LDCR-2014-095

**Departure Title:** Inlet Pressure Change to the Passive Educator for the Main Control Room  
Emergency Habitability System (VES)

**Brief Description of the Plant-Specific Departure:**

The type of passive educator used in the VES is changed, requiring the educator inlet pressure to be increased to approximately 110 psig, to provide the design function requirement of 600 scfm of flow into the passive air filtration system. UFSAR (plant-specific DCD) Subsection 6.4.2.3, Component Description, is updated to reflect this change.

**Summary of the Evaluation:**

This plant-specific departure to change the type of passive educator used in the VES 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.

**Departure Number:** LDCR-2014-097

**Departure Title:** Changes to the Gaseous Radwaste System (WGS)

**Brief Description of the Plant-Specific Departure:**

The design of the WGS is changed as follows:

- The discharge line isolation valve closure setpoint is revised to close at a high radiation alarm setpoint.
- The number of moisture separator level sensors is reduced to one.
- The design influent flow rate is changed to 1.08 scfm.
- A High and Low-2 alarm is added to the carbon delay bed gas outlet pressure.
- The moisture separator level alarm setpoint is changed to High-2.
- The normal valve position of the WGS discharge valve is changed to closed.

These changes are depicted in Figures, Tables and text in UFSAR (plant-specific DCD) Subsection 11.3, Gaseous Waste Management System.

**Summary of the Evaluation:**

This plant-specific departure to the WGS 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.

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**Departure Number:** LDCR-2014-099

**Departure Title:** Modification of Support Configuration for Containment Isolation Valve CVS-PL-V090

**Brief Description of the Plant-Specific Departure:**

Pipe whip restraint PWR-CVS061 is removed from the piping line containing valve CVS-PL-V090, and a rigid support is installed in its place. Due to this change in the design, pipe whip restraint PWR-CVS061 is deleted from UFSAR (plant-specific DCD) Table 3.6-3, NI Rooms with Pipe Whip Restraints and Corresponding Hazard Sources and Essential Targets.

**Summary of the Evaluation:**

This plant-specific departure to eliminate pipe whip restraint PWR-CVS061 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.

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**Departure Number:** LDCR-2014-102

**Departure Title:** Reactor Coolant System (RCS) Change for Hydrostatic Testing

**Brief Description of the Plant-Specific Departure:**

A manual valve is added to the pressurizer vent line to the Reactor Coolant Drain Tank (RCDT) to support hydrostatic testing of the line. This valve addition is reflected in UFSAR (plant-specific DCD) Chapters 3 and 5.

**Summary of the Evaluation:**

This plant-specific departure to add a manual valve in the pressurizer vent line to support hydrostatic 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.

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**Departure Number:** LDCR-2014-105

**Departure Title:** Passive Containment Cooling System (PCS) Changes

**Brief Description of the Plant-Specific Departure:**

The PCS design is changed by adding vent and drain piping and valves to high points and low points, revising Passive Containment Cooling Water Storage Tank (PCCWST) flow rates based on the results of a detailed design review and design calculation, and revising the PCS piping and instrument diagram to conform to the standard figure conventions. The changes are reflected in UFSAR (plant-specific DCD) Chapter 3, 6 and 14.

**Summary of the Evaluation:**

This plant-specific departure to the PCS 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.

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**Departure Number:** LDCR-2014-107

**Departure Title:** Thermal Relief Valve Additions and Changes

**Brief Description of the Plant-Specific Departure:**

Safety-related thermal relief valves are added to the Fire Protection System (FPS), Demineralized Water Transfer and Storage System (DWS) and Central Chilled Water System (VWS) to protect the safety-related Containment Isolation System from damage due to thermal expansion of trapped fluid that could cause piping over-pressurization. UFSAR (plant-specific DCD) Table 3.2-3, AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment, is also changed to correct the description of penetration VWS-PY-C01 and VWS-PY-C02 to be the Containment Chilled Water Return and Supply Penetrations, respectively. This departure results in changes to UFSAR Chapters 3 and 9.

**Summary of the Evaluation:**

This plant-specific departure to add or change thermal relief valves in FPS, DWS and VWS 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.



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**Departure Number:** LDCR-2014-116

**Departure Title:** HFE OSA Task Update and Removal of WCAP-15847 (LAR-14-011)

**Brief Description of the Plant-Specific Departure:**

WCAP-15847, AP1000 Quality Assurance Procedures Supporting NRC Review of AP1000 DCD Sections 18.2 and 18.8, is removed as a reference from UFSAR (plant-specific DCD) Table 1.6-1, Material Referenced, and Subsections 18.2.3.5, Human Factors Engineering in Subcontractor Efforts, and 18.2.7, References.

The Human Factors Engineering (HFE) Operational Sequence Analysis (OSA) task related to the Automatic Depressurization System (ADS) in UFSAR Subsection 18.5.1, Task Analysis Scope, is updated to clarify that ADS valve testing occurs during Mode 5, not Mode 1.

**Summary of the Evaluation:**

This departure involved Tier 2\* information in the UFSAR, therefore, a License Amendment Request (LAR-14-011) was submitted to the NRC.

The NRC approved this departure and issued License Amendment 33 to Combined Licenses NPF-91 and NPF-92 for VEGP Units 3 and 4, respectively.

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**Departure Number:** LDCR-2014-118

**Departure Title:** Changes to Material Identified in Human Factors (HF) Verification and Validation (V&V) Planning Documents

**Brief Description of the Plant-Specific Departure:**

This departure changes material identified in five HF V&V planning documents that are incorporated by reference in the UFSAR (plant-specific DCD). These changes correct and add references, update task analysis information, update document revision numbers, and make administrative and editorial changes. This departure results in changes to UFSAR Chapters 1 and 18.

**Summary of the Evaluation:**

This plant-specific departure to HF V&V planning documents 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.

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**Departure Number:** LDCR-2014-129

**Departure Title:** Redesign of the Solid Radwaste System (WSS) Filter Storage Area

**Brief Description of the Plant-Specific Departure:**

The WSS filter storage area is changed to a concrete pit with a separate Radioactive Waste Drain System (WRS) drain. This change is reflected in UFSAR (plant-specific DCD) Chapters 1, 9, 11 and 12. Also, UFSAR Subsection 11.4.2.3.2, Spent Filter Processing Operations, is revised to permit other methods of sampling the filter media.

**Summary of the Evaluation:**

This plant-specific departure to the WSS filter storage area 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.

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**Departure Number:** LDCR-2014-134

**Departure Title:** Changes to the Demineralized Water Treatment System (DTS)

**Brief Description of the Plant-Specific Departure:**

The DTS is upgraded to improve water quality to meet stringent industry standards. Changes include using only a double pass reverse osmosis configuration, adding ultraviolet light disinfection, mixed bed demineralizers, reverse osmosis permeate pumps, a clean-in-place unit and a chlorine and pH adjustment chemical feed, and replacing the influent sample panel skid with online analyzers. This departure results in changes to UFSAR (plant-specific DCD) Chapters 6, 9 and 10.

**Summary of the Evaluation:**

This plant-specific departure to the DTS to improve water quality 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.

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**Departure Number:** LDCR-2014-137

**Departure Title:** Normal Residual Heat Removal System (RNS) Cooldown using the Fire Protection System (FPS)

**Brief Description of the Plant-Specific Departure:**

The Component Cooling Water System (CCS) connections for RNS cooldown using the FPS as a backup means for achieving cold shutdown are changed. The CCS discharge line is extended through the Radwaste building with a Storz discharge connection into the southern part of the Truck Staging Area of the yard and an additional valve is added to the portion of the line in the Radwaste Building. The flanged connection on the FPS line that leads to the CCS supply header is replaced with a Storz connection. These changes are reflected in UFSAR (plant-specific DCD) Chapter 9.

**Summary of the Evaluation:**

This plant-specific departure to the CCS connections that interface with the FPS 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.

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**Departure Number:** LDCR-2014-139

**Departure Title:** Clarification of Inadequate Core Cooling Instrumentation

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Subsection 1.9.3, Three Mile Island Issues, Item (2)(xviii), Inadequate Core Cooling Instrumentation (NUREG-0737 Item II.F.2) is revised to clarify the functionality of the hot leg level instrumentation and to remove information that credits the reactor coolant pump status as a way to indicate inadequate core cooling.

**Summary of the Evaluation:**

This plant-specific departure to clarify the design of the inadequate core cooling instrumentation 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.

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**Departure Number:** LDCR-2014-148

**Departure Title:** Containment Vacuum Relief Valve Status Consistency Change

**Brief Description of the Plant-Specific Departure:**

Containment Air Filtration System (VFS) containment vacuum relief valve status is added to UFSAR (plant-specific DCD) Table 7.5-7, Summary of Type D Variables, for consistency with UFSAR Table 7.5-1, Post-Accident Monitoring System.

**Summary of the Evaluation:**

This plant-specific departure to add the containment vacuum relief valve status as a Type D variable in UFSAR Table 7.5-7 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.

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**Departure Number:** LDCR-2014-149

**Departure Title:** Alloy-Steel Bolting Material Added to UFSAR Table 3.8.4-6

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Table 3.8.4-6, Materials Used in Structural and Miscellaneous Steel, is revised to add ASTM A540, Standard Specification for Alloy-Steel Bolting Materials for Special Applications, as an acceptable material for use in the construction of containment internal structures and other Seismic Category 1 structures.

**Summary of the Evaluation:**

This plant-specific departure to add ASTM A540 as an acceptable bolting material 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.



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**Departure Number:** LDCR-2014-151

**Departure Title:** Clarification of Penetration Seal Materials

**Brief Description of the Plant-Specific Departure:**

The description of the seal materials used for penetration designs is clarified in UFSAR (plant-specific DCD) Table 9.5.1-1, AP1000 Fire Protection Program Compliance with BTP CMEB 9.5-1, to state that fire seal materials meet the guidance of NUREG-1552.

**Summary of the Evaluation:**

This plant-specific departure to clarify the fire seal material design requirements 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.

**Departure Number:** LDCR-2014-152

**Departure Title:** Relocation of Stairs and Access Platform to the Turbine Building

**Brief Description of the Plant-Specific Departure:**

The stairwell and platform on the roof of the Auxiliary Building is relocated from the center of the north wall to the eastern corner of the north wall. To maintain alignment with the relocated stairwell, the locked and alarmed access door to the Turbine Building and the platform connecting the Turbine Building and Auxiliary Building roofs is also relocated to the eastern end of the Turbine Building. A new locked and alarmed access door is added to the western end of the Turbine First Bay roof. These changes are depicted in general arrangement figures in UFSAR (plant-specific DCD) Chapters 1, 9 and 12.

**Summary of the Evaluation:**

This plant-specific departure to relocate the stairs and access platform from the Auxiliary Building to the Turbine 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.

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**Departure Number:** LDCR-2014-153

**Departure Title:** Normal Residual Heat Removal System (RNS) and Spent Fuel Pool Cooling System (SFS) Locked-Open Valve Provisions

**Brief Description of the Plant-Specific Departure:**

Manual valves in the RNS and SFS are changed from normally open to locked-open, to minimize inadvertent closing to prevent overpressurization of containment penetration piping. UFSAR (plant-specific DCD) Chapters 5 and 9 are revised to reflect these changes.

**Summary of the Evaluation:**

This plant-specific departure to lock open manual valves in the RNS and SFS 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.

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**Departure Number:** LDCR-2014-155

**Departure Title:** ASME Section VIII Pressure Vessel Rerating

**Brief Description of the Plant-Specific Departure:**

The design pressures of the Spent Fuel Pool Cooling System (SFS) demineralizers, Liquid Radwaste System (WLS) degasifier separator, Gaseous Radwaste System (WGS) guard bed, and WGS delay beds and the design temperatures of the SFS demineralizer and WGS guard bed are increased to prevent damage due to overpressurization. The changes are reflected in UFSAR (plant-specific DCD) Chapters 9 and 11.

UFSAR Appendix 1A, conformance to Regulatory Guide 1.143, Design Guidance for Radioactive Waste Management Systems, Structures, and Components Installed in Light-Water-Cooled Nuclear Power Plants, Criteria C.1.1.1 and C.2.1, are revised to take exception to the use of ASME Code, Section VIII, 1998 Edition including 1999 Addenda, and allow the use of ASME Code, Section VIII, 2013 Edition.

**Summary of the Evaluation:**

This plant-specific departure to rerate SFS, WLS and WGS pressure vessels to prevent damage from overpressurization 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.

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**Departure Number:** LDCR-2014-156

**Departure Title:** Direct Vessel Injection (DVI) Nozzle Flow Diverter Addition

**Brief Description of the Plant-Specific Departure:**

Flow diverters are added to the Reactor Vessel core barrel below the DVI flow deflector at each of the two DVI injection points. UFSAR (plant-specific DCD) Table 3.2-3, AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment, is updated to include the addition of the DVI flow diverter.

**Summary of the Evaluation:**

This plant-specific departure to add the DVI flow diverters 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.

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**Departure Number:** LDCR-2014-158

**Departure Title:** Plant Control System (PLS) Signal Selection Logic

**Brief Description of the Plant-Specific Departure:**

This departure expands the design description of the PLS signal selector algorithms to include selection of a median value and also selection of a single valid input. The design description for the signal selector alarms is revised to encompass a wider range of initiating causes for the second alarm. UFSAR (plant-specific DCD) Subsection 7.1.3.2, Signal Selector Algorithms, is updated to reflect these changes.

**Summary of the Evaluation:**

This plant-specific departure to the PLS signal selector algorithms 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.

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**Departure Number:** LDCR-2014-159

**Departure Title:** Radwaste Building Fire Suppression and Detection System Changes

**Brief Description of the Plant-Specific Departure:**

Preaction sprinklers are added as a fixed suppression capability for the fire zone containing the Monitor Tank Room. The fire zones for the Truck Staging Area and Monitor Tank Room are added to the list of zones containing preaction sprinklers. The detection capability for the fire zone containing the Electrical / Mechanical Equipment Room is changed to smoke detection. The detection capability for the fire zone for the Monitor Tank Room is changed to heat detection. These changes are reflected in UFSAR (plant-specific DCD) Appendix 9A, Fire Protection Analysis.

**Summary of the Evaluation:**

This plant-specific departure to the fire suppression and detection system in the Radwaste 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.

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**Departure Number:** LDCR-2014-160

**Departure Title:** Protection and Safety Monitoring System (PMS) Computer Security Plan Changes

**Brief Description of the Plant-Specific Departure:**

APP-GW-J0R-012, AP1000 Protection and Safety Monitoring System Computer Security Plan, is updated from Revision 1 to Revision 4. The updated plan clarifies the document's scope, makes changes to the Isolated Development Infrastructures (IDI), and removes redundant human factors commitments. These changes are depicted in UFSAR (plant-specific DCD) Table 1.6-1, Material Referenced, and UFSAR Subsection 7.1.7, References.

**Summary of the Evaluation:**

This plant-specific departure to the PMS computer security plan 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.



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**Departure Number:** LDCR-2015-002

**Departure Title:** Alternate Means of Leak Detection in the Spent Fuel Pool

**Brief Description of the Plant-Specific Departure:**

The design of the Spent Fuel Pool and connected pools ability to detect leaks, as described in UFSAR (plant-specific DCD) Subsection 12.1.2.4.2, Fuel Pool Design, is changed to include alternate means of leak detection in addition to leak chases. The design is changed to only include leak detection at welds that can be wetted, such that undetected leakage to the groundwater is eliminated.

**Summary of the Evaluation:**

This plant-specific departure to provide alternate means of detecting leaks in the Spent Fuel Pool 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.

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**Departure Number:** LDCR-2015-003

**Departure Title:** Modified Radiation Source Strengths for the Incore Instrumentation Thimble Assemblies (IITA)

**Brief Description of the Plant-Specific Departure:**

The irradiated IITA source strengths are increased, as listed in UFSAR (plant-specific DCD) Table 12.2-19, Irradiated Flux Thimble Source Strengths.

**Summary of the Evaluation:**

This plant-specific departure to increase the radiation source strength for the IITA's 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.

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**Departure Number:** LDCR-2015-005

**Departure Title:** Addition of Vent Line in the Normal Residual Heat Removal System (RNS) and System Gas Accumulation Assessments and Venting Clarifications

**Brief Description of the Plant-Specific Departure:**

A new vent line and valve is added to the RNS Cask Loading Pit suction line for gas accumulation venting. This change impacts UFSAR (plant-specific DCD) Chapter 3. In addition, the assessment methodology and periodic inspection requirements for the Passive Core Cooling System (PXS) are being applied to RNS, Chemical Volume and Control System (CVS), Passive Containment Cooling System (PCS), and Spent Fuel Pool Cooling System (SFS). This change results in changes to UFSAR Chapters 5, 6 and 9.

**Summary of the Evaluation:**

This plant-specific departure to add a vent line in the RNS and to clarify the method for gas accumulation mitigation in the RNS, PXS, CVS and SFS 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.

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**Departure Number:** LDCR-2015-006

**Departure Title:** Non-Hermetically Sealed Small Diameter Valves in the Passive Core Cooling System (PXS)

**Brief Description of the Plant-Specific Departure:**

Several hermetically sealed valves in the PXS are changed to non-hermetically sealed valves. This change impacts UFSAR (plant-specific DCD) Chapters 6 and 12.

**Summary of the Evaluation:**

This plant-specific departure to use non-hermetically sealed valves in the PXS 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.

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**Departure Number:** LDCR-2015-007

**Departure Title:** Main Control Room (MCR) Pressure Boundary Testing

**Brief Description of the Plant-Specific Departure:**

Testing the isolation function for the MCR Pressure Boundary penetrations of the Sanitary Drainage System (SDS), Waste Water System (WWS), and Nuclear Island Nonradioactive Ventilation System (VBS) is changed to be in accordance with ASTM E741, 2000, as described in UFSAR (plant-specific DCD), Subsection 6.4.5.2, Inservice Testing, and in accordance with isolation valve testing as described in UFSAR Subsection 3.9.6.2.2, Valve Testing. The loop seal pressure boundary in the Potable Water System (PWS) is also tested in accordance with ASTM E741, 2000. This change impacts UFSAR Chapter 9.

**Summary of the Evaluation:**

This plant-specific departure to the standard used for MCR pressure boundary testing of SDS, WWS, VBS and PWS 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.

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**Departure Number:** LDCR-2015-008

**Departure Title:** Updating Table 1.7-2 for the Potable Water System (PWS)

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Table 1.7-2, AP1000 System Designators and System Diagrams, is updated to provide the figure number and new note for the PWS.

**Summary of the Evaluation:**

This plant-specific departure to UFSAR Table 1.7-2 to update the PWS figure number and to add a new note 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.

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**Departure Number:** LDCR-2015-010

**Departure Title:** Chemical and Volume Control System (CVS) Design Parameter Clarification and Update

**Brief Description of the Plant-Specific Departure:**

CVS parameters listed in UFSAR (plant-specific DCD) Table 9.3.6-1, Chemical and Volume Control System Parameters, are updated to more clearly identify what each parameter represents. In UFSAR Table 9.3.6-2, Chemical and Volume Control System Nominal Equipment Design Parameters, the design flow of the CVS makeup pumps is changed to 135 gpm, the maximum differential pressure at design flow of the reactor coolant filters is changed to 43 psi and the volume of the boric acid storage tank is increased to 74,839 gallons.

**Summary of the Evaluation:**

This plant-specific departure to CVS component parameters 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.

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**Departure Number:** LDCR-2015-012

**Departure Title:** Boric Acid Storage Tank (BAST) Recirculation

**Brief Description of the Plant-Specific Departure:**

A recirculation pump, associated piping and valves and an eductor is added to the Chemical and Volume Control System (CVS) to provide recirculation and mixing of the BAST contents. This change impacts UFSAR (plant-specific DCD) Chapter 9.

**Summary of the Evaluation:**

This plant-specific departure to add recirculation capability to the BAST 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.



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**Departure Number:** LDCR-2015-013

**Departure Title:** Steam Generator Blowdown System (BDS) Changes

**Brief Description of the Plant-Specific Departure:**

The design of the BDS is changed to eliminate using this system as a steam generator cooling mode during plant cooldown. This change is reflected in UFSAR (plant-specific DCD) Chapters 5, 10 and 19. In addition, the design of the BDS as described in UFSAR Subsection 10.4.8, Steam Generator Blowdown System, is changed to clarify that blowdown flow is controlled by the blowdown flow control valves and their bypass valves, to the Condensate System (CDS), during plant heatup. Two editorial corrections are also made to UFSAR Subsection 10.4.9, Startup Feedwater System (FWS).

**Summary of the Evaluation:**

This plant-specific departure to the design of the BDS and editorial corrections to the FWS 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.

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**Departure Number:** LDCR-2015-014

**Departure Title:** Main Condenser Vacuum Pump Status Indication Change

**Brief Description of the Plant-Specific Departure:**

The design of the main control room status indication for the main condenser vacuum pumps in the Plant Control System (PLS) is changed to indicate enabled/disabled, as described in UFSAR (plant-specific DCD) Subsection 10.4.2.5, Instrumentation Applications.

**Summary of the Evaluation:**

This plant-specific departure to the main condenser vacuum pump status indication in PLS 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.

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**Departure Number:** LDCR-2015-017

**Departure Title:** pH Adjustment Basket Envelope Dimension Changes

**Brief Description of the Plant-Specific Departure:**

The dimensions of the pH adjustment baskets in the Passive Core Cooling System (PXS) are modified so that the total usable volume of the four baskets is equal to or greater than 560 cubic feet. UFSAR Table 3.2-3, AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment, is updated to reflect the pH adjustment basket nomenclature and tag numbers, and UFSAR Tables 6.3-2, Component Data - Passive Core Cooling System, and 14.3-2, Design Basis Accident Analysis, are updated to clarify that there are a total of four pH adjustment baskets.

**Summary of the Evaluation:**

This plant-specific departure to the PXS pH adjustment baskets 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.

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**Departure Number:** LDCR-2015-020

**Departure Title:** Integrated Head Package (IHP) Lower Shroud Assembly Tag Number  
Correction

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Table 3.2-3, AP1000 Classification of Mechanical and Fluid Systems, Components and Equipment, is corrected to indicate that RXS-MY-Y01 is the IHP Lower Shroud Assembly. Associated class, seismic category and construction code information is also updated.

**Summary of the Evaluation:**

This plant-specific departure to correct the component information associated with the IHP Lower Shroud Assembly 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.

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**Departure Number:** LDCR-2015-022

**Departure Title:** Increase in Required Passive Core Cooling System (PXS) Valve Operating Time

**Brief Description of the Plant-Specific Departure:**

The required post-accident operating time for several PXS valves is increased to one year. The above change is depicted in UFSAR (plant-specific DCD) Table 3.11-1, Environmentally Qualified Electrical and Mechanical Equipment.

**Summary of the Evaluation:**

This plant-specific departure to increase the required post-accident operating time for several PXS 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.

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**Departure Number:** LDCR-2015-023

**Departure Title:** Main Control Room (MCR) Potable Water Tank Size Increase

**Brief Description of the Plant-Specific Departure:**

The volume of the MCR potable water storage tank is increased to 1175 gallons. This change is depicted in UFSAR (plant-specific DCD) Chapters 3 and 9.

**Summary of the Evaluation:**

This plant-specific departure to increase the size of the MCR potable water storage 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.

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**Departure Number:** LDCR-2015-024

**Departure Title:** Radioactive Waste Drain System (WRS) Auxiliary Building Sump Pump  
Operational Change

**Brief Description of the Plant-Specific Departure:**

The operational requirements for the WRS are changed. Simultaneous transfer and mixing of the Auxiliary Building Sump to the Liquid Radwaste System (WLS) waste holdup tanks is removed. Transfer and mixing are performed as separate functions. This above change is depicted in UFSAR (plant-specific DCD) Subsection 9.3.5.2.3, System Operation.

**Summary of the Evaluation:**

This plant-specific departure to the operational requirements for recirculation of the Auxiliary Building Sump using the WRS sump 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.

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**Departure Number:** LDCR-2015-025

**Departure Title:** Soft Controls Interaction Representation

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Section 18.8, Human System Interface Design, is revised to indicate that UFSAR Figure 18.8-1, Soft Control Interactions, is a representative depiction of the soft controls used for the Plant Control System (PLS) and the Protection and Safety Monitoring System (PMS). Figure 18.8-1 is also revised to depict general layout and content, as well as show the use of an input device pointer to select operations.

**Summary of the Evaluation:**

This plant-specific departure to the soft controls interaction for the PLS and PMS 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.



**Departure Number:** LDCR-2015-027

**Departure Title:** Main Steam Flow Rate Increase to Auxiliary Steam System

**Brief Description of the Plant-Specific Departure:**

The Main Steam System shutoff valve to the Auxiliary Steam System is increased to 16 inches and the steam flow rate is increased to 440,000 lb/hr. This change is depicted in UFSAR (plant-specific DCD) Table 10.3.2-4, Main Steam Branching Piping (2.5-Inch and Larger) Downstream of MSIV.

**Summary of the Evaluation:**

This plant-specific departure to increase in the valve size and steam flow rate from main steam to auxiliary steam 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.

**Departure Number:** LDCR-2015-028

**Departure Title:** Passive Core Cooling System (PXS) Valve Gasket Material Change

**Brief Description of the Plant-Specific Departure:**

The requirement to utilize gaskets containing asbestos, or a qualified asbestos substitute, is eliminated from use in valves in the PXS. This change revises UFSAR (plant-specific DCD) Subsection 6.3.2.2.8.3, Motor-Operated Valves.

**Summary of the Evaluation:**

This plant-specific departure to change the gasket material used in valves in the PXS 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.

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**Departure Number:** LDCR-2015-029

**Departure Title:** Turbine Building Electric Heaters

**Brief Description of the Plant-Specific Departure:**

The Turbine Building Ventilation System (VTS) is changed to utilize electric heaters. This change impacts UFSAR (plant-specific DCD) Chapters 8 and 9.

**Summary of the Evaluation:**

This plant-specific departure to use electric heaters in the VTS 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.

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**Departure Number:** LDCR-2015-030

**Departure Title:** Steam Generator System (SGS) Valve Normal Operating Position Change

**Brief Description of the Plant-Specific Departure:**

The normal operating position of the bypass valves around the main steam isolation valves in the SGS, as depicted in UFSAR (plant-specific DCD) Table 9.3.3-1, Safety-Related Air-Operated Valves, is changed to normally closed.

**Summary of the Evaluation:**

This plant-specific departure to change the position of the bypass valves around the main steam isolation valves to normally closed 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.

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**Departure Number:** LDCR-2015-031

**Departure Title:** Irradiated Antimony-Beryllium (Sb-Be) Secondary Source Rod Source Strengths

**Brief Description of the Plant-Specific Departure:**

The gamma ray and neutron source strengths for irradiated Sb-Be rods is updated to use the measurements of the as manufactured pellets and rods, resulting in an increase in density and a decrease in cross-sectional area. The source strengths and energy group ranges are changed in UFSAR (plant-specific DCD) Table 12.2-16, Irradiated SB-BE Secondary Source Rod Gamma Ray Source Strengths, and UFSAR Table 12.2-17, Irradiated SB-BE Secondary Source Rod Neutron Source Strengths. Additionally the units in which the source strength is reported in Table 12.2-16 is changed to MeV/cm<sup>3</sup>.

**Summary of the Evaluation:**

This plant-specific departure to update the Sb-Be secondary source rod source strengths 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.

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**Departure Number:** LDCR-2015-032

**Departure Title:** Changes to Trips of Drain Tank Pumps and Turbine Building Sump Pumps

**Brief Description of the Plant-Specific Departure:**

The Waste Water System (WWS) pre-operational testing requirements, described in UFSAR (plant-specific DCD) Subsection 14.2.9.3.6, Waste Water System Testing, are revised to eliminate the test to verify the ability of the WWS radiation alarm to trip the drain tank pumps and waste water retention basin pumps and to add a test to verify the turbine building sump pumps stop on a WWS radiation alarm.

**Summary of the Evaluation:**

This plant-specific departure to change the pre-operational testing requirements for the WWS 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.

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**Departure Number:** LDCR-2015-033

**Departure Title:** Protection and Safety Monitoring System (PMS) Division Assignments  
of the Core Exit Temperature Thermocouples (CET)

**Brief Description of the Plant-Specific Departure:**

The cable divisional assignments of the CETs are re-aligned such that the Integrated Head Package (IHP) cable routing and IHP Connector Panel are in alignment. UFSAR (plant-specific DCD) Table 9A-2, Safe Shutdown Components, is revised to reflect the updated CET divisions.

**Summary of the Evaluation:**

This plant-specific departure to PMS division assignments of the CETs 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.

**Departure Number:** LDCR-2015-034

**Departure Title:** Module Truss Stiffness Contribution

**Brief Description of the Plant-Specific Departure:**

The design function of the trusses in structural modules is changed, as described in UFSAR (plant-specific DCD) Subsection 3.8.3.5.3.5, Design of Trusses. This change credits trusses in the design of structural modules, to work with shear studs, faceplates, and concrete to form a composite section. Further, a requirement is added to identify that the welded connection of the truss is sized to fully develop the specified minimum yield strength of the channel member of the truss. This change is applicable to all structural modules with the exception of the Shield Building.

**Summary of the Evaluation:**

This plant-specific departure to provide additional credit for trusses in the design of structural modules 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.



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**Departure Number:** LDCR-2015-036

**Departure Title:** Changes to High Energy and Moderate Energy Piping

**Brief Description of the Plant-Specific Departure:**

Changes to the high energy and moderate energy piping classifications for the Compressed and Instrument Air System (CAS), Chemical and Volume Control System (CVS) and the Central Chilled Water System (VWS) are made to UFSAR (plant-specific DCD) Chapter 3.

**Summary of the Evaluation:**

This plant-specific departure to change the high and moderate energy pipe classifications in the CAS, CVS and VWS 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.

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**Departure Number:** LDCR-2015-037

**Departure Title:** Chemical and Volume Control System (CVS) Miniflow Heat Exchanger  
Shell Material

**Brief Description of the Plant-Specific Departure:**

The CVS miniflow heat exchanger shell material is changed to provide an option of either carbon steel or stainless steel. This change is described in UFSAR (plant-specific DCD) Subsection 9.3.6.3.2, Chemical and Volume Control System Heat Exchangers.

**Summary of the Evaluation:**

This plant-specific departure to provide optional materials for the shell of the CVS miniflow heat exchanger 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.

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**Departure Number:** LDCR-2015-038

**Departure Title:** Changes to the Main Steam Containment Penetrations

**Brief Description of the Plant-Specific Departure:**

The dimensions of the main steam containment penetrations and associated expansion bellows (Penetration P23 and P24) as depicted in UFSAR (plant-specific DCD) Figure 3.8.2-4, Containment Penetrations Main Steam, are changed.

**Summary of the Evaluation:**

This plant-specific departure to the dimensions of the main steam containment penetrations 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.

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**Departure Number:** LDCR-2015-040

**Departure Title:** Overpressure Protection of ASME Section VIII Components

**Brief Description of the Plant-Specific Departure:**

The design pressures of the Spent Fuel Pool Cooling System (SFS) filters and the Liquid Radwaste System (WLS) degasifier column are increased. These changes are reflected in UFSAR (plant-specific DCD) Chapters 9 and 11.

**Summary of the Evaluation:**

This plant-specific departure to increase the design pressure of the SFS filters and WLS degasifier column 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.

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**Departure Number:** LDCR-2015-045

**Departure Title:** Turbine-Generator Changes

**Brief Description of the Plant-Specific Departure:**

UFSAR (plant-specific DCD) Chapter 10 is revised to clarify descriptions of the turbine-generator electrical output rating, the devices within the protective relay systems and the function of the exciter limiting device.

**Summary of the Evaluation:**

This plant-specific departure to the turbine-generator and associated components 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.

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**Departure Number:** LDCR-2015-046

**Departure Title:** Passive Residual Heat Removal Heat Exchanger (PRHR HX) System  
Level Operability Test Changes

**Brief Description of the Plant-Specific Departure:**

The PRHR HX system level operability test requirements stated in UFSAR (plant-specific DCD) Table 3.9-17, System Level Operability Test Requirements, Note 4 are revised to state the reactor coolant pump speed is 50% during the forced-flow heat transfer capability test. The change in speed results in a reduction in the heat transfer rate acceptance criterion to  $\geq 8.11E7$  Btu/hr. A clarification is also added to the test requirements regarding adjustment of the heat transfer rate to account for hot leg and In Containment Refueling Water Storage Tank (IRWST) temperatures and the number of PRHR HX tubes plugged.

**Summary of the Evaluation:**

This plant-specific departure to the PRHR HX system level operability test requirements 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.

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**Departure Number:** LDCR-2015-047

**Departure Title:** Addition of Vents and Drains to the Steam Generator System (SGS)  
Main and Startup Feedwater Lines

**Brief Description of the Plant-Specific Departure:**

Vents and drains and associated valves are added to the SGS main and startup feedwater lines. These changes are reflected in UFSAR (plant-specific DCD) Chapters 3, 6 and 10.

**Summary of the Evaluation:**

This plant-specific departure to add vents and drains to the main and startup feedwater lines 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.

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**Departure Number:** LDCR-2015-048

**Departure Title:** Chemical and Volume Control System (CVS) Isolation Initiating Functions

**Brief Description of the Plant-Specific Departure:**

Several inconsistencies regarding initiation of CVS isolation are corrected in UFSAR (plant-specific DCD) Chapters 7, 9 and 14.

**Summary of the Evaluation:**

This plant-specific departure to correct the inconsistencies regarding CVS 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.



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**Departure Number:** LDCR-2015-049

**Departure Title:** Turbine Building Upper Heater Bay Floor Elevation Change

**Brief Description of the Plant-Specific Departure:**

The elevation of the Turbine Building upper heater bay floor is increased to 230'-9". This change is depicted in UFSAR (plant-specific DCD) Chapters 1 and 9.

**Summary of the Evaluation:**

This plant-specific departure to increase the elevation of the upper heater bay floor in the Turbine 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.

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**Departure Number:** LDCR-2015-050

**Departure Title:** Radioactive Waste Drain System (WRS) and Waste Water System (WWS) Sump Changes

**Brief Description of the Plant-Specific Departure:**

The WRS radiologically controlled area Auxiliary Building sump pump high set point is lowered, which results in a reduced time to pump out the sump. In addition, the operating volume of the WWS sumps is revised to reflect normal anticipated input capacity instead of pump out capacity. These changes are reflected in UFSAR (plant-specific DCD) Subsection 9.3.5.1.2, Power Generation Design Basis.

**Summary of the Evaluation:**

This plant-specific departure to the WRS and WWS sump capacity 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.

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**Departure Number:** LDCR-2015-051

**Departure Title:** Alignment of Concrete Aggregate Fineness Modulus with ASTM C 33

**Brief Description of the Plant-Specific Departure:**

The allowable lower bound fineness modulus value for fine aggregates, used in the concrete for Category I structures, is changed to 2.3 and an additional reference is added for ASTM C 33. These changes are depicted in UFSAR (plant-specific DCD) Subsection 3.8.4.6.1.1, Concrete.

**Summary of the Evaluation:**

This plant-specific departure to fineness modulus for fine aggregates used in concrete for Category I structures 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.

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**Departure Number:** LDCR-2015-052

**Departure Title:** Ventilation Penetrations Through the Main Control Room (MCR)

**Brief Description of the Plant-Specific Departure:**

The design of the Nuclear Island Non-Radioactive Ventilation System (VBS) penetration barriers into the MCR is clarified to describe that the ventilation flow paths that pass through the MCR pressure boundary consist of safety-related cast sleeves and attached piping. This change is depicted in UFSAR (plant-specific DCD) Table 3.2-3, AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment, and UFSAR Subsection 6.4.2.4, Leaktightness.

**Summary of the Evaluation:**

This plant-specific departure to clarify the design description of the MCR pressure boundary penetrations for VBS 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.

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**Departure Number:** LDCR-2015-061

**Departure Title:** Sensitization Testing of Austenitic Stainless Steel for the Core Makeup Tanks (CMTs)

**Brief Description of the Plant-Specific Departure:**

The requirement for sensitization testing of austenitic stainless steel for the CMTs in the Passive Core Cooling System (PXS), as described in UFSAR (plant-specific DCD) Subsection 5.4.13.5, Test and Inspections, is changed to permit the use of ASTM A-262 Practice A or E.

**Summary of the Evaluation:**

This plant-specific departure to the sensitization testing requirements for austenitic stainless steel for the CMTs 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.

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**Departure Number:** LDCR-2015-062

**Departure Title:** ASME/ANSI B31.1 Code Year Citations

**Brief Description of the Plant-Specific Departure:**

The citation for ASME/ANSI B31.1-1989 provided in Reference 5 of UFSAR (plant-specific DCD) Subsection 3.2.6, References, is revised to include the 1989 Addenda. The title for ASME/ANSI B31.1 is also revised to reflect the correct name for this standard.

**Summary of the Evaluation:**

This plant-specific departure to include the 1989 Addenda with ASME/ANSI B31.1-1989 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.

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**Departure Number:** LDCR-2015-071

**Departure Title:** RELAP5 Code Reference

**Brief Description of the Plant-Specific Departure:**

This departure updates the UFSAR (plant-specific DCD) specified code utilized for calculating pressure and kinetic energy for loads from internal system depressurization for piping systems with closing check valves to RELAP5. This change is reflected in UFSAR Chapter 3.

**Summary of the Evaluation:**

This plant-specific departure to reference the RELAP5 code to calculate pressure and kinetic energy of piping systems with closing check 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.