UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

July 13, 2022

Ms. Jamie Coleman
Regulatory Affairs Director
Southern Nuclear Operating Company
7825 River Road, BIN 63031
Waynesboro, GA 30830

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 – NRC INTEGRATED INSPECTION REPORTS 05200025/2022003, 05200026/2022003 AND SECOND QUARTER ASSESSMENT FOLLOW-UP LETTER

Dear Ms. Coleman:

On June 30, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an integrated inspection at the Vogtle Electric Generating Plant (VEGP), Units 3 and 4. On July 5, 2022, the NRC inspectors discussed the results of this inspection with Mr. G. Chick, VEGP Units 3 and 4 Executive Vice President, and other members of your staff.

The inspection examined a sample of construction activities conducted under your Combined License (COL) as it relates to safety and compliance with the Commission's rules and regulations and with the conditions of these documents. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

The NRC inspectors documented one finding of very low safety significance (Green) in this report. The finding involved a violation of NRC requirements. The NRC is treating the violation as a noncited violation (NCV) consistent with Section 2.3.2.a of the Enforcement Policy.

If you contest the violation or significance of the NCV, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region II; the Director, Office of Enforcement; and the NRC Resident Inspector at the VEGP Units 3 and 4.

If you disagree with a cross-cutting aspect assignment in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region II; and the NRC Resident Inspector at the VEGP Units 3 and 4.

In letter, "2021 Annual Assessment Letter for VEGP Units 3 and 4, NRC Report 05200025/2021012 and 05200026/2021012," (ML22054A323), dated March 2, 2022, the NRC determined that for the 2021 assessment cycle, a cross-cutting theme existed in the area of Human Performance. Specifically, in 2021, VEGP Units 3 and 4 had 21 findings with cross-

cutting aspects (CCAs) in Human Performance, as described in Appendix F “Construction Cross-Cutting Areas and Aspects,” of IMC 0613, “Power Reactor Construction Inspection Reports,” dated November 4, 2020. In accordance with paragraph 10.02.d of IMC 2505, “Periodic Assessment of Construction Inspection Program Results,” dated February 18, 2022, the NRC has determined that the licensee’s performance at VEGP Units 3 and 4 has resulted in some of the CCAs rolling off and as a result, the criteria of greater than 20 CCAs in the area of Human Performance is no longer met. Additionally, the inspectors reviewed your investigation and correct actions associated the cross-cutting theme. Therefore, as of July 1, 2022, a cross-cutting theme in the area of Human Performance no longer exists for VEGP Units 3 and 4.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at http://www.nrc.gov/reading-rm/adams.html and at the NRC Public Document Room in accordance with Title 10 of the Code of Federal Regulations 2.390, “Public Inspections, Exemptions, Requests for Withholding.” Should you have any questions concerning this letter, please contact me at 404- 997-4510.

Sincerely,

Signed by Coovert, Nicole
on 07/13/22

Nicole Coovert, Chief
Construction Inspection Branch 1
Division of Construction Oversight

Docket Nos.: 5200025, 5200026
License Nos: NPF-91, NPF-92

Enclosure(s):
NRC Inspection Report (IR) 05200025/2022003, 05200026/2022003
w/attachment: Supplemental Information

cc w/ encl: Distribution via LISTSERV

VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 – NRC INTEGRATED INSPECTION REPORTS 05200025/2022003, 05200026/2022003 AND SECOND QUARTER ASSESSMENT FOLLOW-UP LETTER

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U.S. NUCLEAR REGULATORY COMMISSION
Region II

Docket Numbers:	5200025 5200026
License Numbers:	NPF-91 NPF-92
Report Numbers:	05200025/2022003 05200026/2022003
Licensee:	Southern Nuclear Operating Company, Inc.
Facility:	Vogtle Unit 3 and Unit 4
Location:	Waynesboro, Ga
Inspection Dates:	April 1, 2022, through June 30, 2022
Inspectors:	G. Crespo, Senior Construction Inspector, Division of Construction Oversight (DCO) T. Fredette, Reactor Operations Engineer, Office of Nuclear Reactor Regulation – Vogtle Project Office B. Griman, Resident Inspector, DCO B. Kemker, Senior Resident Inspector, DCO J. Lizardi-Barreto, Construction Inspector, DCO R. Mathis, Senior Construction Inspector, DCO R. Patel, Senior Construction Inspector, DCO A. Ponko, Senior Construction Inspector, DCO M. Riley, Senior Construction Inspector, DCO W. Schuster, Resident Inspector (Acting), DCO
Approved by:	Nicole Coovert, Chief Construction Inspection Branch 1 Division of Construction Oversight

SUMMARY OF FINDINGS

Inspection Report (IR) 05200025/2022003 and 05200026/2022003; 04/01/2022 through 06/30/2022; Vogtle Units 3 and 4 Combined License, Integrated Inspection Report.

This report covers a three-month period of inspection by regional and resident inspectors. One Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) finding of very low safety significance (Green) with associated noncited violation (NCV) was identified. The significance of most findings is indicated by their color (i.e., greater than Green, or Green, White, Yellow, Red) which is determined using Inspection Manual Chapter (IMC) 2519, "Construction Significance Determination Process." Cross-cutting aspects are determined using IMC 0613, Appendix F, "Construction Cross-Cutting Areas and Aspects." All violations of NRC requirements are dispositioned in accordance with the NRC's Enforcement Policy. The NRC's program for overseeing the safe construction of commercial nuclear power reactors is described in IMC 2506, "Construction Reactor Oversight Process General Guidance and Basis Document."

A. NRC-Identified and Self Revealed Findings

(Green) NRC inspectors identified an ITAAC finding of very low safety significance with associated NCV of Title 10 of the Code of Federal Regulations, Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," for the licensee's failure to maintain the 1-inch physical separation required for safety-related (SR) and nonsafety-related (NSR) cables for valves passive core cooling system (PXS) PXS-PL-V130A, steam generator system (SGS) SGS-PL-V036A, central chilled water system (VWS) VWS-PL-V086, and chemical and volume control system (CVS) CVS-PL-V090 as stated in electrical specification APP-G1-V8-001, "AP1000 Electrical Installation Specification," Revision 11. The failure to maintain the 1-inch physical separation required for SR and NSR cables, is a performance deficiency (PD). The licensee entered this issue into the corrective action program (CAP) as condition reports (CRs) 50144333, CR 50144475, CR 50145108, and CR 50145447. Immediate corrective actions, for this issue, included rework to restore compliance with the separation requirements.

The PD was of more than minor safety significance, and thus a finding, because it represented an adverse condition that rendered the quality of the safety function associated with the Class 1E raceway structure unacceptable and required substantive corrective action. Specifically, it impacted the structure's design function to maintain physical separation between Class 1E divisions and between Class 1E divisions and non-Class 1E cables. This violation was determined to be an ITAAC finding because it impacted ITAAC 3.3.00.07d.ii.b (801) which states physical separation is maintained between Class 1E divisions and between Class 1E divisions and non-Class 1E cables inside non-radiologically controlled areas in the auxiliary building. The inspectors determined this finding was indicative of present licensee performance and was associated with the cross-cutting aspect of Field Presence, in the area of Human Performance in accordance with IMC 0613, Appendix F, Construction "Cross-Cutting Areas and Aspects," dated November 4, 2020. The proximate cause of the PD was attributed to failure to ensure leaders were in the work areas observing, coaching, and reinforcing standards and expectations during field work. [H.2]. (Section 1A17)

B. Licensee-Identified Violations

A violation of very low safety significance that was identified by the licensee has been reviewed by the inspectors. Corrective actions taken by the licensee have been entered into the licensee's CAP. This violation and the associated corrective action tracking numbers are listed in Section 4OA7 of this report.

REPORT DETAILS

Summary of Plant Construction Status

Unit 3: The licensee completed the majority of plant construction and was finalizing the electrical as-built design. The licensee performed post work verification on safety-related (SR) and nonsafety-related (NSR) structures, systems, and components (SSCs) as it completes final construction on the electrical systems. Additionally, preoperational testing of the protection and safety monitoring system (PMS) and the Class 1E dc and uninterruptible power system (IDS) continued to demonstrate the equipment and systems performed in accordance with the design criteria.

Unit 4: The licensee completed the majority of civil and mechanical construction in the nuclear island. The licensee continued installation of plant electrical cabinets, raceways, conduits, and cables. The licensee continued integrated flush and open vessel testing activities.

1. CONSTRUCTION REACTOR SAFETY

Cornerstones: Design/Engineering, Procurement/Fabrication, Construction/Installation, Inspection/Testing

IMC 2503, Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) – Related Work Inspections

1A01 (Unit 3) ITAAC Number 2.1.02.05a.i (19) / Family 14A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.1.02.05a.i (19). The inspectors used the following NRC inspection procedures (IPs)/sections to perform this inspection:

- 65001.E-02.03 - Qualification
- 65001.E-02.04 - Documentation
- 65001.E-02.06 - Problem Identification and Resolution

The inspectors reviewed the equipment qualification reconciliation reports (EQRR) for the reactor coolant system (RCS) instruments listed below to determine whether the licensee assessed work packages, design changes, and nonconformances to confirm the as-built configuration, including anchorage, was seismically bounded by the analyzed conditions in accordance with the applicable data sheets and design specifications, and satisfy the seismic Category 1 and harsh environment criteria.

REPORT DETAILS

Summary of Plant Construction Status

Unit 3: The licensee completed the majority of plant construction and was finalizing the electrical as-built design. The licensee performed post work verification on safety-related (SR) and nonsafety-related (NSR) structures, systems, and components (SSCs) as it completes final construction on the electrical systems. Additionally, preoperational testing of the protection and safety monitoring system (PMS) and the Class 1E dc and uninterruptible power system (IDS) continued to demonstrate the equipment and systems performed in accordance with the design criteria.

Unit 4: The licensee completed the majority of civil and mechanical construction in the nuclear island. The licensee continued installation of plant electrical cabinets, raceways, conduits, and cables. The licensee continued integrated flush and open vessel testing activities.

1. CONSTRUCTION REACTOR SAFETY

Cornerstones: Design/Engineering, Procurement/Fabrication, Construction/Installation, Inspection/Testing

IMC 2503, Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) – Related Work Inspections

1A01 (Unit 3) ITAAC Number 2.1.02.05a.i (19) / Family 14A

b. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.1.02.05a.i (19). The inspectors used the following NRC inspection procedures (IPs)/sections to perform this inspection:

- 65001.E-02.03 - Qualification
- 65001.E-02.04 - Documentation
- 65001.E-02.06 - Problem Identification and Resolution

The inspectors reviewed the equipment qualification reconciliation reports (EQRR) for the reactor coolant system (RCS) instruments listed below to determine whether the licensee assessed work packages, design changes, and nonconformances to confirm the as-built configuration, including anchorage, was seismically bounded by the analyzed conditions in accordance with the applicable data sheets and design specifications, and satisfy the seismic Category 1 and harsh environment criteria.

- Pressure sensors SV3-RCS-140D and SV3-RCS-191A
- Temperature sensors SV3-RCS-125D, SV3-RCS-132A, SV3-RCS-135B and SV3-RCS-212C
- Level sensors SV3-RCS-160A and SV3-RCS-195C
- Pump speed sensor SV3-RCS-283
- Reactor pressure head vent valve SV3-RCS-PL-V150C
- Motor-operated valves (MOVs) SV3-RCS-PL-V001B, SV3-RCS-PL-V003A, SV3-RCS-PL-V014C
- Squib valve SV3-RCS-PL-V004B

The inspectors reviewed the licensee's methodology and selection of applicable work orders, data sheets, and design drawings to determine whether the inspections and analyses demonstrated the installed components were bounded by the design characteristics that were analyzed in the analyses. The inspectors reviewed the equipment qualification summary reports and equipment qualification data packages to determine whether installation restrictions from testing were translated to the drawings and EQRRs. The inspectors performed a walkdown of the installed components to confirm the satisfactory installation of the Class 1E sensors, associated wiring, cables, and terminations that are qualified for a harsh environment was bounded by the type tests, analyses, or combination of type tests and analyses. The inspectors verified each sensor’s manufacturer make/model/serial number, location, and mounting orientation were per the design drawings.

The inspectors reviewed the work packages and confirmed the torque values applied were per the required design drawing and the torque wrenches used were within their calibration cycle.

The inspectors also interviewed licensing personnel to determine how inspection and analyses were performed for applicable nonconformances and engineering and design coordination reports (E&DCR) issued during fabrication, handling, installation, and testing to verify deviations were bounded by the seismically analyzed conditions.

c. Findings

No findings were identified.

1A02 (Unit 3) ITAAC Number 2.2.01.05.i (98) / Family 11A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.01.05.i (98). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.E-02.05 - Equipment Installation

The inspectors reviewed the EQRRs for the SSCs listed below to determine whether the licensee assessed work packages, design changes, and nonconformances to confirm the as-built configuration, including anchorage, was seismically bounded by the analyzed conditions in accordance with the applicable data sheets and design specifications.

- Component cooling water system (CCS) supply containment isolation check valve SV3-CCS-PL-V201
- Demineralized water transfer and storage system (DWS) supply containment isolation check valve DWS-PL-V245
- Liquid radwaste system (WLS) reactor coolant drain tank gas outlet containment isolation, air operated valve (AOV) SV3-WLS-PL-V067
- Central chilled water system (VWS) return containment isolation auxiliary relief valve SV3-VWS-PL-V080
- Fuel handling and refueling system (FHS) fuel transfer tube isolation gate valve SV3-FHS-PL-V001
- Fuel transfer tube FHS-FT01
- Instrument penetration P47 PCS-PY-C02
- Non-class 1E electrical penetration assemblies (EPAs) ECS-EY-P01X, DAS-EY-P03Z, ECS-EY-P06Y, ECS-EY-P22X, ECS-EY-P23X, and ECS-EY-P26W

The inspectors also reviewed EQRRs for the SSCs listed below to verify the as-built equipment satisfies the seismic category 1 and harsh environment acceptance criteria of ITAAC 2.2.01.05.i.

- Spent fuel pool cooling system (SFS) suction line containment isolation, MOV SV3-SFS-PL-V034
- Containment air filtration system (VFS) purge isolation butterfly AOV SV3-VFS-PL-V009
- WLS sump discharge containment isolation plug AOV SV3-WLS-PL-V055

The inspectors reviewed the licensee's methodology and selection of applicable work orders, data sheets, and design drawings, to determine whether the inspections and analyses demonstrated the installed components were bounded by the analyzed design characteristics. The inspectors reviewed the equipment qualification summary reports and equipment qualification data packages to determine whether installation restrictions were translated to the drawings and EQRRs. The inspectors performed a review of as-installed electrical connections for the MOVs and pneumatic connections for the AOVs to determine whether the electrical and pneumatic connections were installed as tested so the valve would function during a design basis accident.

The inspectors performed walkdowns of the as-built valves to verify each valve's make/model/serial number, mounting, orientation and location. The inspectors verified the mechanical anchorage and electrical connections were bounded by the tested conditions.

The inspectors also interviewed licensing personnel to determine how inspection and analyses were performed for applicable nonconformances and E&DCRs issued during fabrication, handling, installation, and testing to verify deviations were bounded by the seismically analyzed conditions.

b. Findings

No findings were identified.

1A03 (Unit 3) ITAAC Number 2.2.03.05a.i (165) / Family 14A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.05a.i (165). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.14-02.01 - General Installation
- 65001.A.02.02 - Installation Records Review
- 65001.A.02.04 - Review As-built Deviations/Nonconformance

The inspectors reviewed the EQRRs for the passive core cooling system (PXS) SR components listed below and performed walkdowns to confirm the as-built configuration, including anchorage, was seismically bounded by the analyzed conditions in accordance with the applicable data sheets and design specifications.

- Containment recirculation isolation MOV SV3-PXS-PL-V117A
- Core makeup tank (CMT) B SV3-PXS-MT-02B
- CMT B level sensors SV3-PXS-012B and SV3-PXS-014C
- In-containment refueling water storage tank (IRWST) injection check valves SV3-PXS-PL-V122A, and SV3-PXS-PL-124B
- CMT discharge check valves SV3-PXS-PL-V016B and SV3-PXS-PL-V017A

The inspectors also reviewed EQRRs for the SSCs listed below and performed walkdowns to verify the as-built equipment satisfied the seismic Category 1 and harsh environment acceptance criteria of ITAAC 2.2.03.05a.i.

- CMT inlet isolation MOV SV3-PXS-PL-V002B
- Passive residual heat removal heat exchanger (PRHR HX) inlet isolation MOV SV3-PXS-PL-V101
- CMT discharge isolation AOVs SV3-PXS-PL-V014B and SV3-PXS-PL-V015A
- PRHR HX control AOV SV3-PXS-PL-V108A
- Containment recirculation squib valve SV3-PXS-PL-V120A
- IRWST injection isolation squib valve SV3-PXS-PL-V125B

The inspectors reviewed the licensee’s methodology and selection of applicable work orders, data sheets, and design drawings, to determine whether the inspections and analyses demonstrated the installed components were bounded by the design characteristics that were analyzed in the analyses. The inspectors reviewed the equipment qualification summary reports and equipment qualification data packages to determine whether installation restrictions were translated to the drawings and EQRRs.

The inspectors performed a review of as-installed electrical and pneumatic connections for the valves to determine whether the electrical and pneumatic connections were installed as tested so the valves would function during a design basis accident.

The inspectors examined the installation of the valves, CMT, and level sensors to verify the make/model/serial number, mounting, orientation, and location were in accordance with the design specifications and construction drawings. The inspectors also verified the mechanical anchorage and electrical connections were bounded by the tested and/or analyzed condition.

The inspectors interviewed licensing personnel to determine how inspection and analyses were performed for applicable nonconformances and E&DCRs issued during fabrication, handling, installation, and testing to verify deviations were bounded by the seismically analyzed conditions.

b. Findings

No findings were identified.

1A04 (Unit 3) ITAAC Number 2.2.03.08c.x (195) / Family 14F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.08c.x (195). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.14-02.04 - Qualification Criteria
- 65001.14-02.05 - Problem Identification and Resolution
- 65001.F-02.01 - Design Document Review
- 65001.F-02.04 - General QA Review

The inspectors reviewed quality records, including the principal closure documents (PCDs), associated with this ITAAC to verify the density requirements of coatings and other materials, such as, signs and tags, caulking, ventilation filters and fire barriers, located inside containment meet the requirements of Appendix C of the Combined License (COL). This inspection focused on the review of five PCDs and the reference documents for the materials listed below.

- Onsite coated SSCs
- Offsite coated SSCs
- Signs and tags
- Caulking
- Ventilation filters and fire barriers

The inspectors reviewed PCD SV3-PXS-ITR-801195 to verify the report concluded the protective coatings applied onsite to SSCs located inside containment have a dry film density of greater than or equal to (≥) 100 pounds per cubic feet ($lb/ft^{3)}$, and inorganic zinc coatings used on these surfaces were Safety-Service Level I or otherwise have been quantified and justified in a program for management of unqualified coatings to demonstrate the unqualified coatings were acceptable for use.

The inspectors reviewed PCD SV0-GW-ITR-001 to verify the report concluded the protective coatings applied offsite (i.e., by a vendor) to SSCs located inside containment have a dry film density of ≥ 100 lb/ft^3 and inorganic zinc coatings used on these surfaces were Safety-Service Level I or otherwise have been quantified and justified in a program for management of unqualified coatings to demonstrate the unqualified coatings were acceptable for use.

The inspectors reviewed PCD SV3-1100-ITR-800195-4 to verify the report concluded the signs or tags for equipment located inside containment have a dry film density of ≥ 100 lb/ft^3.

The inspectors reviewed PCD SV3-PXS-ITR-803195 to verify the report concluded the caulking inside containment has a dry film density of ≥ 100 lb/ft^3.

The inspectors reviewed PCD SV3-PXS-ITR-805195 to verify the report concluded fire barriers inside containment have a dry film density of ≥ 100 lb/ft^3. The inspectors also verified there were no ventilation filters inside containment.

b. Findings

No findings were identified.

1A05 (Unit 3) ITAAC Number 2.6.03.02.i (597) / Family 08A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.6.03.02.i (597). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.02 - Attributes of Electrical Cable installation
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.04 - Review As-built Deviations/Nonconformance

The inspectors reviewed the EQRRs for the IDS components listed below to determine whether the licensee assessed work packages, design changes, and nonconformances to confirm the as-built configuration, including anchorage, were seismically bounded by the analyzed conditions in accordance with the applicable data sheets and design specifications, and satisfy the seismic category 1 criteria.

- IDS 24-hour battery charger IDSC-DC-1
- IDS 72-hour battery charger IDSC-DC-2
- IDS distribution panel IDSA-DD-1
- IDS distribution panels IDSD-EA-1 and IDSD-EA-2
- IDS fuse panel IDSA-EA-4
- IDS fused transfer switch boxes IDSA-DF-1, IDSB-DF-1, and IDSC-DF-1
- IDS regulation transformers IDSC-DT-1
- IDS 24-hour inverter IDSC-DU-1
- IDS motor control centers IDSC-DK-1 and IDSB-DK-1

The inspectors reviewed the licensee's methodology and selection of applicable work orders, data sheets, and design drawings to determine whether the inspections and analyses demonstrated the installed components were bounded by the as-tested and analyzed design characteristics. The inspectors reviewed the equipment qualification summary reports and equipment qualification data packages to determine whether installation restrictions from testing were translated to the drawings and EQRRs and whether any differences between the as-built and as-designed conditions were reconciled in accordance with approved modification or change processes.

The inspectors performed a walkdown of the selected Unit 3 IDS installed components to confirm satisfactory installation of associated cable raceways and conduit, cable/wiring, and terminations at component penetrations. Additionally, the inspectors assessed penetrations that included Roxtec electromagnetic compatibility hardware to verify correct installation and configuration to ensure free-air cable physical separation. The inspectors verified the cables and raceways had sufficient physical separation between Class 1E cables of different divisions and non-Class 1E cables and were identified by an appropriate color coding scheme per design basis requirements. The inspectors reviewed the work packages and confirmed the torque values applied were per the required design specification.

The inspectors also interviewed licensing personnel to determine how inspection and analyses were performed for applicable nonconformances and E&DCRs issued during fabrication, handling, installation, and testing to ensure all deviations were bounded by the seismically analyzed conditions.

b. Findings

No findings were identified.

1A06 (Unit 3) ITAAC Number 3.3.00.05b (785) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.05b (785). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.01 - Inspection of ITAAC-Related Foundations & Buildings
- 65001.01-02.07 - Identification and Resolution of Problem
- 65001.F-02.04 - General QA Review

The inspectors reviewed SV3-1000-ITR-800785, "Unit 3 Inspections of Auxiliary Building SR Equipment Flood Prevention: ITAAC 3.3.00.05b, NRC Index Number 785," Revision 1, to determine whether the licensee assessed work packages, design changes, and nonconformances to confirm the as-built configuration was in accordance with the applicable drawings and design specifications to satisfy the ITAAC requirements for flooding.

The inspectors performed a walkdown to inspect the sealing of doorway, cable tray, piping, tubing, electrical embedded conduit, and heating, ventilation, and air conditioning (HVAC) penetrations at the following locations to determine whether the

boundaries between mechanical equipment rooms and the electrical and instrumentation control equipment rooms of the auxiliary building were constructed as designed to prevent flooding of rooms that contain SR equipment up to the maximum flood level for each room.

- The floor between room 12306 with flooding source (36-inch) and adjacent room 12211 (12306-ML-E02–Electrical, 12306-ML-E06–Electrical, and 12306-ML-I01-Piping)
- The floor between room 12313 with flooding source (3-inch) and adjacent rooms 12203/12207 (12313-ML-E12-Electrical, 12313-ML-H01-HVAC, and 12313-ML-H02-HVAC)
- The floor between room 12312 with flooding source (3-inch) and adjacent room 12212 (12312-ML-E02-Electrical)
- The wall between room 12401 with flooding source within 1-inch of the floor (117’-6”) and adjacent room 12411/12412 (12401-AD-D01-Door)
- The floor between room 12406 with flooding source (36-inch) and adjacent room 12306 (12406-ML-E03-Cable Tray, 12406-ML-E10-Conduit, and 12406-ML-P20-Piping)
- The floor between room 12501 with flooding source (3-inch) and adjacent rooms 12401/12411/12412 (12501-ML-H05-HVAC, 12501-ML-P19-Piping, and 12501-ML-P37-Piping)

The inspectors also interviewed licensing personnel to determine how inspection and analysis were performed for nonconformances and E&DCRs issued during fabrication, handling, and installation to verify deviations were bounded by the analyzed conditions.

b. Findings

No findings were identified.

1A07 (Unit 3) ITAAC Number 3.3.00.07aa (789) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07aa (789). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.02 - Attributes of Electrical Cable installation
- 65001.09-02.04 - Problem Identification and Resolution

The inspectors inspected raceways inside the containment building. The rooms inspected were the steam generator operating decks (rooms 11501 and 11502), tubesheet area for both steam generators (rooms 11401 and 11402), and upper automatic depressurization system (ADS) valve area (room 11703). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors also verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the corrective action program (CAP) to verify issues were properly identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A08 (Unit 3) ITAAC Number 3.3.00.07ab (790) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07ab (790). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the non-radiologically controlled area of the auxiliary building. The rooms inspected included the following:

- 12104 - Division B Battery Room 1 (Fire Area 1201 AF 02)
- 12202 - Division C Battery Room 2 (Fire Area 1202 AF 03)
- 12205 - Division D DC Equipment Room (Fire Area 1201 AF 03)
- 12207 - Division B DC Equipment Room (Fire Area 1201 AF 02)
- 12303 - Remote Shutdown Room (Fire Area 1232 AF 01)
- 12304 - Division B I&C Penetration Room (Fire Area 1201 AF 02)
- 12305 - Division D I&C Penetration Room (Fire Area 1201 AF 03)
- 12312 - Division C RCP Trip Switchgear Room (Fire Area 1202 AF 03)
- 12422 - Reactor Trip Switchgear II (Fire Area 1243 AF 02)
- 12423 - Reactor Trip Switchgear I (Fire Area 1243 AF 01)

The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective

actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A09 (Unit 3) ITAAC Number 3.3.00.07ac (791) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07ac (791). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the radiologically controlled area of the auxiliary building. The rooms inspected were within fire area 1200 AF 01 and included the demineralizer/filter access area (Room 12251), containment isolation valve room (Room 12256), mid annulus access room (Room 12354), and waste monitor tank room B (Room 12365). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. The inspectors also walked down the rooms to observe the use of barriers to maintain minimum separation distances. During the walkdown, the inspectors also verified that the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the radiologically controlled area of the auxiliary building to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed applicable documentation including work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0 and supporting documentation to determine, within the radiologically controlled area of the auxiliary building, whether the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements; Class 1E electrical and communication cables associated with only one division, and the raceways that route these cables were identified by the appropriate color code; and Class 1E electrical and communication cables associated with only one division were routed in raceways assigned to the same division.

The inspectors also reviewed ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0 and performed walkdowns to verify, within the radiologically controlled area of the auxiliary building, circuits were run in enclosed raceways or barriers were provided to meet minimum separation distances.

b. Findings

No findings were identified.

1A10 (Unit 3) ITAAC Number 3.3.00.07ba (792) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07ba (792). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.02 - Attributes of Electrical Cable installation

The inspectors inspected raceways inside the containment building. The rooms inspected were the steam generator operating decks (rooms 11501 and 11502), tubesheet area for both steam generators (rooms 11401 and 11402), and upper automatic depressurization system (ADS) valve area (room 11703). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors also verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were properly identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A11 (Unit 3) ITAAC Number 3.3.00.07bb (793) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07bb (793). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the non-radiologically controlled area of the auxiliary building. The rooms inspected included the following:

- 12104 - Division B Battery Room 1 (Fire Area 1201 AF 02)
- 12202 - Division C Battery Room 2 (Fire Area 1202 AF 03)
- 12205 - Division D DC Equipment Room (Fire Area 1201 AF 03)
- 12207 - Division B DC Equipment Room (Fire Area 1201 AF 02)
- 12303 - Remote Shutdown Room (Fire Area 1232 AF 01)
- 12304 - Division B I&C Penetration Room (Fire Area 1201 AF 02)
- 12305 - Division D I&C Penetration Room (Fire Area 1201 AF 03)
- 12312 - Division C RCP Trip Switchgear Room (Fire Area 1202 AF 03)
- 12422 - Reactor Trip Switchgear II (Fire Area 1243 AF 02)
- 12423 - Reactor Trip Switchgear I (Fire Area 1243 AF 01)

The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A12 (Unit 3) ITAAC Number 3.3.00.07bc (794) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07bc (794). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the radiologically controlled area of the auxiliary building. The rooms inspected were located within fire area 1200 AF 01 and included the demineralizer/filter access area (Room 12251), containment isolation valve room (Room 12256), mid annulus access room (Room 12354), and waste monitor tank room B (Room 12365). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. The inspectors also walked down the rooms to observe the use of

barriers to maintain minimum separation distances. During the walkdown, the inspectors also verified that the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the radiologically controlled area of the auxiliary building to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed applicable documentation including work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0 and supporting documentation to determine, within the radiologically controlled area of the auxiliary building, whether the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements; Class 1E electrical and communication cables associated with only one division, and the raceways that route these cables were identified by the appropriate color code; and Class 1E electrical and communication cables associated with only one division were routed in raceways assigned to the same division.

The inspectors also reviewed ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0 and performed walkdowns to verify, within the radiologically controlled area of the auxiliary building, circuits were run in enclosed raceways or barriers were provided to meet minimum separation distances.

b. Findings

No findings were identified.

1A13 (Unit 3) ITAAC Number 3.3.00.07c.i.a (795) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07c.i.a (795). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation

- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the non-radiologically controlled area of the auxiliary building. The rooms inspected included the following:

- 12104 - Division B Battery Room 1 (Fire Area 1201 AF 02)
- 12202 - Division C Battery Room 2 (Fire Area 1202 AF 03)
- 12205 - Division D DC Equipment Room (Fire Area 1201 AF 03)
- 12207 - Division B DC Equipment Room (Fire Area 1201 AF 02)
- 12303 - Remote Shutdown Room (Fire Area 1232 AF 01)
- 12304 - Division B I&C Penetration Room (Fire Area 1201 AF 02)
- 12305 - Division D I&C Penetration Room (Fire Area 1201 AF 03)
- 12312 - Division C RCP Trip Switchgear Room (Fire Area 1202 AF 03)
- 12422 - Reactor Trip Switchgear II (Fire Area 1243 AF 02)
- 12423 - Reactor Trip Switchgear I (Fire Area 1243 AF 01)

The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification. For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A14 (Unit 3) ITAAC Number 3.3.00.07c.i.b (796) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07c.i.b (796). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 – Physical Separation of Cables
- 65001.09-02.03 – Documentation
- 65001.09-02.04 – Problem Identification and Resolution
- 65001.A.02.02 – Installation Records Review

The inspectors inspected raceways inside the radiologically controlled area of the auxiliary building. The rooms inspected were located within fire area 1200 AF 01 and included the demineralizer/filter access area (Room 12251), containment isolation valve room (Room 12256), mid annulus access room (Room 12354), and waste monitor tank room B (Room 12365) within fire area 1200 AF 01. The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. The inspectors also walked down the rooms to observe the use of barriers to maintain minimum separation distances. During the walkdown, the inspectors also verified that the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the radiologically controlled area of the auxiliary building to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed applicable documentation including work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0 and supporting documentation to determine, within the radiologically controlled area of the auxiliary building, whether the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements; Class 1E electrical and communication cables associated with only one division, and the raceways that route these cables were identified by the appropriate color code; and Class 1E electrical and communication cables associated with only one division were routed in raceways assigned to the same division.

The inspectors also reviewed ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0 and performed walkdowns to verify, within the radiologically controlled area of the auxiliary building, circuits were run in enclosed raceways or barriers were provided to meet minimum separation distances.

b. Findings

No findings were identified.

1A15 (Unit 3) ITAAC Number 3.3.00.07d.i (799) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.i (799). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the non-radiologically controlled area of the auxiliary building. The rooms inspected were the main control room (MCR) and remote shutdown room (RSR). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors also verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the MCR and the RSR to verify raceways routing Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-MCRRSR, Revision 0 and supporting documentation to determine if the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements within the MCR and RSR.

b. Findings

No findings were identified.

1A16 (Unit 3) ITAAC Number 3.3.00.07d.ii.a (800) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.ii.a (800). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.02 - Attributes of Electrical Cable installation
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution

The inspectors inspected raceways inside the containment building. The rooms inspected were the steam generator operating decks (rooms 11501 and 11502), tubesheet area for both steam generators (rooms 11401 and 11402), and upper automatic depressurization system (ADS) valve area (room 11703). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors also verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were properly identified, evaluated, and corrected.

b. Findings

No findings were identified.

1A17 (Unit 3) ITAAC Number 3.3.00.07d.ii.b (801) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.ii.b (801). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution

The inspectors inspected raceways inside the non-radiologically controlled area of the auxiliary building. The rooms inspected included the following:

- 12104 - Division B Battery Room 1 (Fire Area 1201 AF 02)
- 12202 - Division C Battery Room 2 (Fire Area 1202 AF 03)
- 12205 - Division D DC Equipment Room (Fire Area 1201 AF 03)
- 12207 - Division B DC Equipment Room (Fire Area 1201 AF 02)
- 12303 - Remote Shutdown Room (Fire Area 1232 AF 01)
- 12304 - Division B I&C Penetration Room (Fire Area 1201 AF 02)
- 12305 - Division D I&C Penetration Room (Fire Area 1201 AF 03)
- 12312 - Division C RCP Trip Switchgear Room (Fire Area 1202 AF 03)
- 12422 - Reactor Trip Switchgear II (Fire Area 1243 AF 02)
- 12423 - Reactor Trip Switchgear I (Fire Area 1243 AF 01)

The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. During the walkdown, the inspectors verified the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways. The inspectors also walked down cables installed in trays to verify cable fill design requirements were met.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and quality control inspection reports to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

b. Findings

Introduction

NRC inspectors identified an ITAAC finding of very low safety significance (Green) and an associated noncited violation (NCV) of Title 10 of the Code of Federal Regulations (10 CFR), Part 50, Appendix B, Criterion V, “Instructions, Procedures, and Drawings,” for the licensee’s failure to maintain the 1-inch physical separation required for SR and NSR cables for valves PXS-PL-V130A, steam generator system (SGS) SGS-PL-V036A, VWS-PL-V086, and chemical and volume control system (CVS) CVS-PL-V090 as stated in electrical specification APP-G1-V8-001, “AP1000 Electrical Installation Specification,” Revision 11.

Description

During NRC cable separation inspections on June 21 and 28, 2022, the inspectors identified four cable separation nonconformances where the separation between SR cables and NSR cables/raceways did not maintain one inch separation as required by electrical specification APP-G1-V8-001, Appendix I.

The inspectors identified that NSR cables SV3-MSS-EW-PLV001MYN and SV3-MSS-EW-PLV003MYN pass over cabinet SV3-PMS-JD-ILCB01 and intersect SR cables SV3-PXS-EW-PLV130AQZB, leaving less than an inch of separation. The separation distance between the safety and NSR cables was approximately ½ inch. The purpose of the SR cables was to provide open and close indication for IRWST gutter bypass isolation valve PXS-PL-V130A. The inspectors determined that failure to maintain physical separation between these cables rendered the capability to provide indication of SR valve PXS-PL-V130A indeterminate in the event of a single failure on the NSR cable.

The inspectors identified that NSR cable SV3-MSS-EW-PLV005NYN, above cabinet SV3-PMS-JD-ILCD04, was routed less than an inch from SR cable SV3-SGS-EW-PLV036AHYD. The purpose of the SR cable was to provide a digital output command to the steam line condensate drain isolation valve SGS-PL-V036A. The inspectors determined that failure to maintain physical separation between these cables rendered the capability to provide output commands to SR valve SGS-PL-V036A indeterminate in the event of a single failure on the NSR cable.

The inspectors identified that NSR cable SV3-MSS-EW-PLV002NYN, above cabinet SV3-PMS-JD-ILCD02, was routed less than an inch from SR cable SV3-VWS-EW-PLV086HYD. The purpose of the SR cable was to provide a digital output command to the fan coolers return containment isolation valve VWS-PL-V086. The inspectors determined that failure to maintain physical separation between these cables rendered the capability to provide output commands to SR valve VWS-PL-V086 indeterminate in the event of a single failure on the NSR cable.

The inspectors identified that NSR conduit SV3-1231-ER-NZC40, above the right side of cabinet SV3-IDSD-DK-1, was less than an inch from SR cable SV3-CVS-EW-PLV090KZD. The purpose of the SR cable was to provide a digital input indications and digital output commands to the CVS makeup line containment isolation motor-operated valve CVS-PL-V090. The inspectors determined that failure to maintain physical

separation between these cables rendered the capability to provide output commands to SR valve CVS-PL-V090 indeterminate in the event of a single failure on the NSR cable.

Additionally, the inspectors determined that these failures rendered the quality of a Class 1E raceway structure unacceptable. The licensee entered these issues into their corrective action program as condition report (CR) 50144333, CR 50144475, CR 50145108, and CR 50145447.

Analysis

The licensee's failure to maintain the 1-inch physical separation required for SR and NSR cables for valve PXS-PL-V130A, SGS-PL-V036A, VWS-PL-V086, and CVS-PL-V090, as stated in electrical specification APP-G1-V8-001, was a violation of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," and a performance deficiency (PD). The PD was determined to be more than minor because if left uncorrected, the PD represented an adverse condition that rendered the quality of the safety function associated with the Class 1E raceway structure unacceptable and required substantive corrective action. Specifically, it impacted the structure's design function to maintain physical separation between Class 1E divisions and between Class 1E divisions and non-Class 1E cables. This violation was determined to be an ITAAC finding because it impacted ITAAC 3.3.00.07d.ii.b (801) which states physical separation is maintained between Class 1E divisions and between Class 1E divisions and non-Class 1E cables inside non-radiologically controlled areas in the auxiliary building.

The inspectors determined the finding was associated with the Construction/Installation cornerstone of the Construction Reactor Safety strategic performance area. The inspectors assessed the finding using IMC 2519, Appendix A, "AP1000 Significance Determination Process," dated October 26, 2020, and determined this finding was not associated with a security program; it was not associated with an IMC 2504 operational/construction program; and it was not associated with a repetitive, NRC-identified omission of a program critical attribute. The finding was of very low safety significance (Green) because the finding was associated with the Class 1E raceway structure and if left uncorrected it could reasonably be expected to impair only a portion of the structure.

The inspectors determined this finding was indicative of present licensee performance and was associated with the cross-cutting aspect of Field Presence, in the area of Human Performance in accordance with IMC 0613, Appendix F, Construction "Cross-Cutting Areas and Aspects," dated November 4, 2020. The proximate cause of the PD was attributed to failure to ensure leaders were in the work areas observing, coaching, and reinforcing standards and expectations during field work. [H.2].

Enforcement

10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," requires in part "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings."

Contrary to the above, on June 21, 2022, the licensee failed to maintain the 1-inch physical separation between SR and NSR cables for valve PXS-PL-V130A, SGS-PL-V036A, VWS-PL-V086, and CVS-PL-V090, as stated in electrical specification APP-G1-V8-001. The licensee entered these issues into their corrective action program as CR 50144333, CR 50144475, CR 50145108, and CR 50145447. Immediate corrective actions, for this issue, included rework to restore compliance with the separation requirements. Based on the review described above, the inspectors determined the licensee took corrective actions to address the ITAAC finding, and the nonconforming conditions had been appropriately addressed such that the acceptance criteria of ITAAC 3.3.00.07d.ii.b (801) was no longer impacted. As a result of the licensee's corrective actions to restore compliance, ITAAC finding for 3.3.00.07d.ii.b is opened and closed in this report.

Because this violation was not repetitive or willful, was of very low safety significance, and was entered into the licensee's CAP, this violation is being treated as an NCV consistent with Section 2.3.2.a of the NRC Enforcement Policy (NCV 05200025/2022003-02, Failure to Maintain Cable Separation Requirements for Valves PXS-PL-V130A, SGS-PL-V036A, VWS-PL-V086, and CVS-PL-V090).

1A18 (Unit 3) ITAAC Number 3.3.00.07d.ii.c (802) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.ii.c (802). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the radiologically controlled area of the auxiliary building. The rooms inspected were located within fire area 1200 AF 01 and included the demineralizer/filter access area (Room 12251), containment isolation valve room (Room 12256), mid annulus access room (Room 12354), and waste monitor tank room B (Room 12365). The inspectors conducted walkdowns of the raceways inside the rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. The inspectors also walked down the rooms to observe the use of barriers to maintain minimum separation distances. During the walkdown, the inspectors also verified that the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the radiologically controlled area of the auxiliary building to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed applicable documentation including work packages, test and inspection records,

and cable pull tickets to confirm the non-Class 1E cables needed to meet the ITAAC requirements of Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0 and supporting documentation to determine, within the radiologically controlled area of the auxiliary building, whether the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements; Class 1E electrical and communication cables associated with only one division, and the raceways that route these cables were identified by the appropriate color code; and Class 1E electrical and communication cables associated with only one division were routed in raceways assigned to the same division.

The inspectors also reviewed ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0 and performed walkdowns to verify, within the radiologically controlled area of the auxiliary building, circuits were run in enclosed raceways or barriers were provided to meet minimum separation distances.

b. Findings

No findings were identified.

1A19 (Unit 3) ITAAC Number 3.3.00.07d.iii.c (805) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iii.c (805). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.09-02.01 - Physical Separation of Cables
- 65001.09-02.03 - Documentation
- 65001.09-02.04 - Problem Identification and Resolution
- 65001.A.02.02 - Installation Records Review

The inspectors inspected raceways inside the radiologically controlled area of the auxiliary building. The rooms inspected were located within fire area 1200 AF 01 and included the demineralizer/filter access area (Room 12251), containment isolation valve room (Room 12256), mid annulus access room (Room 12354), and waste monitor tank room B (Room 12365). The inspectors conducted walkdowns of the raceways inside the

rooms to verify separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables. The inspectors also walked down the rooms to observe the use of barriers to maintain minimum separation distances. During the walkdown, the inspectors also verified that the raceways and cables were identified by the appropriate color codes and the division cables were routed in their respective raceways.

The inspectors reviewed applicable construction specifications, installation procedures, written instructions, drawings, work packages, and sampled quality control inspection reports for the work packages associated with the installation of raceways in the radiologically controlled area of the auxiliary building to verify raceways that route Class 1E cables were installed in accordance with design requirements. The inspectors also reviewed applicable documentation including work packages, test and inspection records, and cable pull tickets to confirm the non-Class 1E cables needed to meet the Appendix C of the COL were installed at the time of ITAAC verification.

For the raceways that route Class 1E cables installed in these rooms, the inspectors verified the size, material, and style were as specified in design documents and work procedures. The inspectors verified raceway supports were located at points specified in approved instructions and maximum distances between supports were not exceeded. The inspectors also verified fittings and clamps were installed according to work procedures. Additionally, the inspectors reviewed the licensee's corrective actions for issues entered into the CAP to verify issues were identified, evaluated, and corrected.

The inspectors reviewed ITAAC Technical Report SV3-1200-ITR-AUXR, Revision 0 and supporting documentation to determine, within the radiologically controlled area of the auxiliary building, whether the licensee's inspection results confirmed the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables met separation requirements; Class 1E electrical and communication cables associated with only one division, and the raceways that route these cables were identified by the appropriate color code; and Class 1E electrical and communication cables associated with only one division were routed in raceways assigned to the same division.

The inspectors also reviewed ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0 and performed walkdowns to verify, within the radiologically controlled area of the auxiliary building, circuits were run in enclosed raceways or barriers were provided to meet minimum separation distances.

b. Findings

No findings were identified.

1A20 (Unit 3) ITAAC Number 3.3.00.08 (813) / Family 04F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.08 (813). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.21.02.03 - As Built Inspections
- 65001.21 - Inspection of Pipe Rapture Hazard Analysis Design Acceptance Criteria (DAC) – Related ITAAC

The inspectors reviewed the as-built pipe rupture hazard analysis (PRHA) summary reports for the auxiliary and containment buildings to verify the SSCs identified as essential targets were protected from the dynamic and environmental effects of postulated pipe ruptures and can withstand the effects of postulated pipe rupture without loss of required safety function.

The inspectors reviewed the as-built PRHA summary reports to verify deviations between the as-designed and as-built conditions were identified, evaluated, and reconciled as described in VEGP 3 and 4 Updated Final Safety Analysis Report (UFSAR) Section 3.6.

The inspectors reviewed two piping stress analysis reports, associated with piping segments of the RCS and PXS, to verify an intermediate pipe break evaluation was performed for the piping segments within the scope of the analyses. The inspectors verified the allowable stress limits listed in tables 2-7 and 2.1-7 of the analyses, associated with piping segments of the RCS and PXS, respectively, were consistent with VEGP 3 and 4 UFSAR subsection 3.6.2.1. The inspectors also verified the loads due to transient and sustained design basis pipe breaks were considered in the analyses. For those lines qualified in the analyses, the inspectors verified the calculated stresses corresponding to load combinations, including loads due to transient and sustained design basis pipe breaks, were less than the allowable stress limits.

The inspectors also verified the as-built PRHA summary reports concluded the results of the as-designed Pipe Rupture Hazards Analysis remain valid and were not impacted by the as-built condition of the plant, based on engineering evaluation of as-built deviations, E&DCRs, and field walkdown information. Specifically,

- no new intermediate pipe breaks needed to be postulated;
- no new or different pipe break mitigation features (pipe whip restraints, jet shields, etc.) were required;
- the pipe break mitigation features in the design were adequate (pipe whip and jet impingement loads have not changed) and were installed correctly;
- no new or different targets of pipe breaks were identified;
- no new or different room environmental conditions (pressure, temperature, humidity radiation) needed to be postulated or evaluated; and
- no new or different room flooding conditions needed to be postulated or evaluated.

The inspectors performed a walkdown with the licensee of the as-built piping systems of overall projected spray areas of the RCS and steam generator 'A' to verify the SSCs identified as essential targets can withstand the effects of postulated pipe rupture without loss of required safety function as defined in the pipe rupture hazard analysis report. The inspectors performed walkdowns of the line breaks listed below.

- Line break numbers RCS-105-UZ0I-JET-D / RCS-105-UZ0I-JET-U, RCS-106-RZOI-JET (line RCS-PL-L010A to V011A Room 11703)
- RCS-006-ZOI (line RCS-PL-L215 Room 11503)
- RCS-107-UZOI-JET-D/ RCS-107-UZOI-JET-U (line RCS-L010B Room 11603)
- RCS-108-RZOI-JET (line RCS-PL-L010B to V011B Room 11603)
- SGS-001-ZOI-JET (line SGS-PL-L005A Steam Generator A, Room 11503)

b. Findings

No findings were identified.

1A21 (Unit 4) ITAAC Number 2.5.02.08b.i (542) / Family 10A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.5.02.08b.i (542). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.10-02.02.b - Completed Work
- 65001.10-02.02.c - As Built Verification

The inspectors performed an as-built inspection of the Unit 4 PMS MCR to the remote shutdown workstation transfer panel to verify the ITAAC. The inspectors performed a post-installation field inspection of the transfer panel and reviewed quality records including the PCD and design drawings to determine whether separate transfer switches exist for each SR division and the NSR control capability as specified in Table 2.5.2-8 of Appendix C of the Vogtle Unit 4 COL.

b. Findings

No findings were identified.

IMC 2504, Construction Inspection Program – Inspection of Construction and Operational Programs

1P01 Construction QA Criterion 16

- 35007-A16.04 - Inspection Requirements and Guidance
- 35007-A16.04.01 - Inspection of QA Implementing Documents
- 35007-A16.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed issues entered into the licensee's CAP daily to assess issues that might warrant additional follow-up inspection, to assess repetitive or long-term issues, to assess adverse performance trends, and to verify the CAP appropriately included regulatory required NSR SSCs. The inspectors periodically attended the licensee's CAP review meetings, held discussions with licensee and contractor personnel, and performed reviews of CAP activities during the conduct of other baseline inspection procedures. The inspectors reviewed conditions entered into the licensee's CAP to determine whether the issues were classified in accordance with the licensee's quality assurance program and CAP implementing procedures. The inspectors reviewed corrective actions associated with conditions entered into the CAP to determine whether appropriate actions to correct the issues were identified and implemented effectively, including immediate or short-term corrective actions, in accordance with the applicable quality assurance program requirements and 10 CFR Part 50, Appendix B, Criterion XVI. Additionally, the inspectors reviewed the corrective actions taken to determine whether they were commensurate with the significance of the associated conditions in accordance with the licensee's CAP implementing procedures. The inspectors completed reviews of CAP entry logs to verify issues from all aspects of the project, including equipment, human performance, and program issues, were being identified by the licensee and its contractors at an appropriate threshold and entered into the CAP as required by licensee's CAP implementing procedures.

b. Findings

No findings were identified.

1P02 Construction QA Criterion 16

- 35007-A16.04.02 – Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed two samples to assess implementation of the CAP, one associated with the ITAAC closure notice for Unit 3 ITAAC 3.3.00.02a.i.b (761) and the other with measuring the thickness of the North wall of the Unit 3 refueling cavity.

The inspectors also reviewed corrective action record (CAR) 80006953, "NRC Issue of Concern on Submitted ITAAC #761 Shield Building Structural Reconciliation." This CAR documented the causal analysis completed by the licensee to determine, and prescribe corrective actions to address, the causes behind the development, review, and submittal of an inadequate ITAAC closure notice (ICN) for ITAAC 3.3.00.02a.i.b (761), which was previously identified as NCV 05200025/2022001-02, in report 05200025/2022001, 05200026/2022001 (ADAMS ML22130A054). The inspectors reviewed the causes that

were identified for the event, and the corrective actions that were developed to address the causes, to determine if the causes were consistent with the objective evidence and the extent of condition review and if the corrective actions were adequate to address the issue.

The inspectors also reviewed issues associated with implementing guidelines for measuring the thickness of the North wall of the refueling cavity. These guidelines established measures for verifying the wall meets the requirements of VEGP 3 and 4 UFSAR Table 3.3-1 and ITAAC 3.3.00a.i.a (760). Specifically, the licensee was not able to measure the wall thickness at one location prescribed in the guidelines on the South face of the wall between elevations 98'-0" and 135'-3" due to obstructions.

The inspectors reviewed CR 50121255, "ITAAC Thickness Requirements for North Wall of Refueling Cavity," Technical Evaluation (TE) 60035171, and associated nonconformance and disposition report (N&D) SV3-CA01-GNR-001265, "(ESR 50123312) ITAAC Thickness Requirements for North Wall of Refueling Cavity," to verify there was adequate written technical justification for the acceptance of the nonconforming condition, which was dispositioned "use-as-is." The inspectors also reviewed the N&D to determine if the nonconforming condition was reviewed and approved by the design authority and appropriately evaluated for impacts to the licensing basis.

b. Findings

No findings were identified.

1P03 Construction QA Criterion 16

- 35007-A16.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors performed a focused review of the licensee's corrective actions for CAR 80006668, "A total of 20 NRC cross-cutting aspects in human performance meet the threshold for establishing a cross-cutting theme."

Inspectors reviewed the licensee's common cause analysis and corrective actions for an adverse trend of NRC findings that resulted in a cross-cutting theme in the cross-cutting area of human performance. Specifically, in 2021, VEGP Units 3 and 4 had 21 findings with cross-cutting aspects (CCAs) in Human Performance, as described in Appendix F "Construction Cross-Cutting Areas and Aspects," of IMC 0613, "Power Reactor Construction Inspection Reports," dated November 4, 2020. The licensee addressed several of the issues with corrective actions implemented in CAR 80006298, "Conditions adverse to quality associated with electrical commodity installation in Vogtle Unit 3 have resulted in two NRC-identified, preliminary construction findings and associated apparent violations." This CAR was the subject of an NRC supplemental inspection issued on April 19, 2022 (NRC inspection report 05200025/2022010, ADAMS accession number ML22108A153). There were no findings identified in the inspection report for the supplemental inspection.

The licensee's analysis also identified a commonality among other NRC findings that involved test procedures not adequately incorporating licensing basis design requirements. The licensee implemented several corrective actions because of this common cause analysis including reviewing existing test procedures to ensure they include licensing basis requirements and incorporating lessons learned into test procedure writing processes. Inspectors reviewed the planned and completed corrective actions associated with this issue. Inspectors also reviewed NRC inspection reports issued since the human performance cross-cutting theme was identified and noted a downward trend in the number of NRC findings related to human performance.

b. Findings

No findings were identified.

1P04 ITAAC Management

- 40600-02.04 - ITAAC Maintenance Controls

a. Inspection Scope

The inspectors performed a direct inspection and document review of construction activities associated with ITAAC maintenance. The inspection was conducted to verify the licensee effectively implemented ITAAC maintenance activities to maintain the basis and conclusions of the accepted ICNs.

The inspectors reviewed documentation related to the replacement of Unit 3 "B" steam generator blowdown line bellows expansion joint (SV3-11209-ML-B08). The ITAAC screening checklist contained in work package SV3-SGS-P0W-1130713 identified the work was ITAAC-related, but it did not include ITAAC 2.2.01.07.i (containment integrated leak rate test (ILRT)) in the list of related ITAACs. Subsequently, the licensee identified and documented the missed impact as potentially affecting the containment ILRT, which had already been completed. According to ANSI/ANS-56.8-1994, any component replacement or repair that could affect primary containment integrity shall require the Type A, B, or C test, as applicable, to demonstrate the affected component meets the applicable leakage requirement.

The inspectors interviewed the test engineer, observed portions of the set up, and observed performance of an ASME pressure test of the "B" steam generator 4-inch blowdown line to satisfy the leakage test requirement. During test set up, the inspectors observed activities related to the formation of a nitrogen freeze seal on the "B" steam generator 4-inch blowdown line. The inspectors noted the ASME pressure test was conducted at normal steam generator system pressure conditions that exceeded the containment ILRT parameters. Following a 10-minute hold to verify the system was stable and holding pressure, the inspectors observed SNC quality control and authorized nuclear inspectors examine the replaced portion of the "B" steam generator 4-inch blowdown line.

b. Findings

No findings were identified.

4. OTHER INSPECTION RESULTS

4OA6 Meetings, Including Exit

.1 Exit Meeting.

On July 5, 2022, the NRC inspectors discussed the results of this inspection with Mr. G. Chick, VEGP Units 3 and 4 Executive Vice President, and other members of your staff. Proprietary information was reviewed during the inspection period but was not included in the inspection report.

4OA7 Licensee-Identified Violations.

.01 (Open/Close) (05200025/2022003-01, Failure to Provide Sufficient Information in the ICN for ITAAC 2.2.03.08c.xiii (198))

10 CFR 52.99I(1), “ITAAC Closure Notification,” requires, in part, that the licensee notify the NRC that the prescribed inspections, tests, and analyses have been performed and that the prescribed acceptance criteria are met. The notification must contain sufficient information to demonstrate that the prescribed inspections, tests, and analyses have been performed and that the prescribed acceptance criteria are met. Contrary to the above, on April 19, 2022, the licensee failed to provide sufficient information in the ICN for ITAAC 2.2.03.08c.xiii (198) to demonstrate that the prescribed inspections, tests, and analyses had been performed and that the prescribed acceptance criteria were met. Specifically, the licensee determined sometime after April 26, 2022, that the prescribed acceptance criteria had not been met at the time the ICN was submitted due to the presence of a carbon steel spreader plate within the exclusion zone defined in the ITAAC.

The performance deficiency was considered more than minor and a finding because it represented a substantive failure to implement an adequate program, process, procedure, or quality oversight function. Specifically, the licensee failed to develop an ICN that accurately reflected ITAAC completion as supported by verifiable documents and traceable records. The inspectors also determined the finding could be associated with a specific ITAAC and was material to the acceptance criteria of an ITAAC since it was associated with non-conforming material located within the exclusion zone defined in ITAAC 2.2.03.08c.xiii (198). Based on the size of the spreader plate and connection between the plate and structural module, the inspectors determined that the design function of the affected SSC would not have been impaired by the deficiency. As a result, the inspectors concluded the finding was of very low safety significance (Green).

As immediate corrective actions, the licensee withdrew the ICN. Subsequently, a stainless steel enclosure was placed over the carbon steel spreader plate. Based on a review of N&D SV3-CA05-GNR-000181, the inspectors determined that the licensee took adequate corrective actions to address the ITAAC finding, and the nonconforming conditions had been appropriately addressed such that the acceptance criteria of ITAAC 2.2.03.08c.xiii (198) was no longer impacted. No additional findings were identified. As a result, LIV 05200025/2022003-01, “Failure to Provide Sufficient Information in the ICN for ITAAC 2.2.03.08c.xiii (198)” is closed. This issue was documented in the licensee’s CAP as CR 500136780 and CR 50140148.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensees and Contractor Personnel

R. Beilke, SNC ITAAC Project Manager
M. Brummitt, SNC PI/CAP Project Director
C. Castell, WEC Licensing Engineer
K. Drudy, SNC ITAAC Project Manager
M. Kelley, IEEE 384 ITAAC Project Manager
D. Kettering; SNC Engineering
S. Leighty, SNC Licensing Manager
L. Pritchett, SNC Licensing Engineer
K. Roberts, SNC ITAAC Manager
G. Scott, SNC Licensing Engineer

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Item Number	Type	Status	Description
05200025/2022003-01	LIV	Open/Close	Failure to Provide Sufficient Information in the ICN for ITAAC 2.2.03.08c.xiii (198). Section 4OA7
05200025/2022003-02	NCV	Open/Close	Failure to Maintain Cable Separation Requirements for Valves PXS-PL-V130A, SGS-PL-V036A, VWS-PL-V086, and CVS-PL-V090 for ITAAC 3.3.00.07d.ii.b (801). Section 1A17

LIST OF DOCUMENTS REVIEWED

Section 1A01
2.1.02.05a.i_U3-EQRR-PCD004, "Reactor Coolant System (RCS) EQ Reconciliation Report (EQRR)," Revision 0
2.1.02.05a.i_U3-EQRR-PCD005, "Reactor Coolant System (RCS) EQ Reconciliation Report (EQRR)," Revision 0
2.1.02.05a.i_U3-EQRR-PCD006, "Reactor Coolant System (RCS) EQ Reconciliation Report (EQRR)," Revision 0
SV3-JE52-VBR-002, “Equipment Qualification Data Package for Model DTN2070 Pressure and Differential Pressure Transmitter for use in the AP1000 Plant,” Revision 3
SV3-JE52-VBR-004, “Equipment Qualification Data Package for 3155N Pressure and Differential Pressure Transmitter for use in the AP1000 Plant,” Revision 2
SV3-JE53-VBR-002, “Equipment Qualification Data Package for Weed Instrument N9002 and N9004 Resistance Temperature Detectors for Use in the AP1000 Plant,” Revision 1
SV3-JE62-VBR-001, “Equipment Qualification Summary Report for Reactor Coolant Pump Speed Sensor for Use in the AP1000 Plant,” Revision 1
SV3-JE62-VBR-002, “AP1000 Equipment Qualification Data Package for Reactor Coolant Speed Sensor for Use in the AP1000 Plant,” Revision 1

SV3-JE52-VQQ-001, “Vendor Equipment Quality Release 16-1283 for AP1000 JE52 Class 1E Pressure and Differential Pressure Transmitter,” Revision 0
SV3-JE52-VQQ-002, “Vendor Equipment Quality Release 16-1283 for AP1000 JE52 Class 1E Pressure and Differential Pressure Transmitter,” Revision 0
N&D No. SV3-RCS-GNR-000231, “ESR 50060846-SV3-RCS-JE-PT191C Fitting Leaking at Transmitter,” Revision 0
SV3-MP01-V2-012, “AP1000 Reactor Coolant Pump General Assembly,” Revision 2
SV3-1122-JMW-1058781, “Work Package - ASME III Install Bolting for All Instrument Mounting Plates on Instrument Rack SV3-1132-JR-002,” Revision 0
SV3-1132-JMW-1058793, “Work Package ASME III Install Bolting for All Instrument Mounting Plates on Instrument Rack SV3-1122-JR-001,” Revision 0
SV3-1132-JMW-1058793, “Work Package ASME III Install Bolting for All Instrument Mounting Plates on Instrument Rack SV3-1132-JR-002,” Revision 0
SV3-RCS-JEW-1053755, “Work Package – U3 CT. BLDG Install Class 1E Instruments SV3-RCS-JE-ST263, ST264, ST283, ST284; EL. 84’-6” Room 11202 Area 4,” Revision 0
SV3-RCS-JTW-1120399, “Work Package -ASME III Repair Connections at Transmitters SV3-RCS-JE-PT140A/PT140C/PT191A/PT191C,” Revision 0
SV3-RCS-JTW-1120971, “Work Package - ASME III Remove, Clean and Reinstall Transmitters SV3-RCS-JE-LT195C and SV3-RCS-JE-LT195D,” Revision 0
SV3-RCS-JTW-1120973, “Work Package - ASME III Remove, Clean and Reinstall Transmitters SV3-RCS-JE-FT102A and SV3-RCS-JE-FT102C,” Revision 0
SV3-1133-JMW-1058803, “Work Package - ASME III Install Bolting for All Instrument Mounting Plates on Instrument Rack SV3-1133-JR-002,” Revision 0
SV3-RCS-J2W-1011330, “Work Package – Torque 2-Way Manifold Valve SV3-RCS-JZ-PT140D to Instrument Rack 1133-JR-002,” Revision 0
SV3-1133-JR-002-1-BC, “Work Package - Install Bolting for Manifold Valve SV3-RCS-JZ-PT1140D Mounting Plate,” Revision 0
SV3-JE52-JEW-1120209-ND-CS-VPN-007-F01, “Work Package – U3- CT. Re-Torque 1E (JE52) Instrument Bracket and Plate Assemblies IAW SV3-JE52-V1Y-102 & 103,” Revision 0
SV3-JE52-JEW-1120209-ND-CS-VPN-008-F01, “Work Package – U3- CT. Re-Torque 1E (JE52) Instrument Bracket and Plate Assemblies IAW SV3-JE52-V1Y-102 & 103,” Revision 0
SV3-JEW-1052793, “Work Package – U3- CT. BLDG Install Instruments SV3-RCS-JE-TE121A/B/C/D, TE125A/C, TE131A/C, TE132A/C, TE133A/C, & TE135AA, EL. 84’6”, Room 11201, Areas 1&2,” Revision 0
SV3-RCS-JEW-1052805, “Work Package – U3 CT. BLDG Install Instruments SV3-RCS-JE-TE122A/B/C/D, TE125B/D, TE131B/D, TE132B/D, TE133B/D & TE135B; EL. 84’ 6”, Room 11202, Areas 3 & 4,” Revision 0
SV3-RCS-J0W-1013300, Work Package – ASME III – Fabricate / Install Tubing Per SV3-RCS-PLW-120, 110, 090. 100, 35b, 270, and 260,” Revision 1
SV3-RCS-JE-FT101B, “Work Package - Rework Bleed Valve Fittings SV3-RCS-JE-FT101B,” Revision 0
SV3-RCS-JEW-1058999, “Work Package – U3 – CT Install Class 1E Instruments and Supports for SV3-RCS-JE-TE212A, TE212B, TE212C, TE212D and SV3-RCS-JE-TE272,” Revision 0
SV3-PV01-VBR-012, “Equipment Qualification Data Package for Flowserve Flex Wedge Gate Valves with Limitorque Motor Operators for Use in the AP1000 Plant,” Revision 1
SV3-PV13-VBR-012, “Equipment Qualification Data Package for Valcor Solenoid-Operated Globe Valve Assemblies for Use in the AP1000 Plant,” Revision 0
SV3-PV01-VBR-014, “Equipment Qualification Data Package for Flowserve Globe Stop Valves with Limitorque Motor Operators for Use in the AP1000 Plant,” Revision 1
SV3-PV01-VDR-000002, “PV01 – Valve Information for Valve Set-up,” Revision 2

SV3-RCS-P0W-1084498, “Work Package – ASME III – Install Valves SV3-RCS-PL-V150A, V150C Piping & Supports SV3-RCS-PH-11R0035, SV3-RCS-PH-11A0415 From ISO SV3-RCS-PLW-234,” Revision 0
SV3-RCS-P0W-1002570, “Work Package – ASME III – Re-Assemble Valves SV3-RCCS-PL-V001A/B, RCS-PL-V002A/B, RCS-PL-V003A/B,” Revision 0
CR 50051868, “As-Found Spring Pack Do Not Match with Valve’s Design”
CR 50052213, “ADS Globe Valve Yokes Are Not Installed per Design SV3-PV01-V2-131001/132001”
CAR 80002916, “APP-PV01-Z0D-132 As-Found Spring Pack Do Not Match Design”
E&DCR SV0-PV01-GEF-003, “PV01 Valve Yoke Assembly Rotation,” Revision 0

Section 1A02
2.2.01.05.i-U3-EQRR-PCD001, “Containment System EQ Reconciliation Report,” Revision 0
2.2.01.05.i-U3-EQRR-PCD002, “Containment System EQ Reconciliation Report,” Revision 0
2.2.01.05.i-U3-EQRR-PCD003, “Containment System EQ Reconciliation Report,” Revision 0
SV3-PV03-VBR-014, “Equipment Qualification Data Package for Flowserve Self-Actuated Swing Check Valve for Use in the AP1000 Plant, Revision 2
SV3-PV02-VBR-016, “Equipment Qualification Data Package for Samshin Limited Nozzle Check Valves for Use in the AP1000 Plant,” Revision 0
SV3-PV10-VBR-006, “Equipment Qualification Data Package for Air-Operated Plug Valve for Use in the AP1000 Plant,” Revision 2
SV3-PV11-VBR-006, “Equipment Qualification Data Package for Motor-Operated TRICENTRIC Butterfly Valve for Use in the AP1000 Plant,” Revision 3
SV3-PV11-VBR-004, “Equipment Qualification Data Package for Air-Operated TRICENTRIC Butterfly Valve for Use in the AP1000 Plant,” Revision 2
SV3-PV14-VBR-002, “Equipment Qualification Data Package for Fisher HPNS Control Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV16-VBR-002, “Equipment Qualification Summary Report for Auxiliary Relief Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV16-VBR-001, “Equipment Qualification Summary Report for Auxiliary Relief Valves for Use in the AP1000 Plant,” Revision 2
SV3-FH06-VBR-002, “Equipment Qualification Data Package for Parallel Slide Gate Valves for Use in the AP1000 Plant,” Revision 1
SV3-GW-VBR-002, “Equipment Qualification Data Package for TopWorx C7 GO Switches for Use in the AP1000 Plant,” Revision 1
SV3-FT01-VQQ-001, “Quality Release and Certificate of Conformance,” Revision 1
SV3-PV11-VQQ-008, “Quality Release and Certificate of Conformance,” Revision 0
SV3-PV02-VQQ-025, “Quality Release and Certificate of Conformance,” Revision 0
SV3-SFS-P0W-1050804, “Work Package – Bolted Joint Data Sheet for Valve SV3-SFS-PL-V034,” Revision 0
SV3-VFS-P0W-1006821, “Work Package- Bolted Joint Data Sheet for Valve SV3-VFS-PL-V009,” Revision 0
SV3-CCS-P0W-800010, “Work Package – ASME III- Install ISOMETRICS SV3-CCS-PLW-040 and 04U,” Revision 0
SV3-WLS-P0W-1057530, “Work Package – Bolted Joint Data Sheet for Valve SV3-WLS-PL-V055,” Revision 0
SV3-WLS-P0W1058205, “Work Package – Bolted Joint Data Sheet for Valve SV3-WLS-PL-V067,” Revision 0
SV3-VWS-P0W-1016441, “Work Package – Bolted Joint Data Sheet for Valve SV3-VWS-PL-V080,” Revision 0

SV3-FH06-P0W-1009332, “Work Package – Bolted Joint Data Sheet for Valve SV3-FH06-PL-V001,” Revision 0
SV3-FT01-VDR-101, “As-Built Reconciliation Report for Vogtle Unit 3 (FT01) Fuel Transfer Tube Equipment,” Revision 0
SV3-GW-GEF-850299, “Increase Conduit length greater than as-tested length (ESR 50057967),” Revision 0
APP-EY01-GEF-051, “Updates to EY01 EQ Reports to Address the Interfaces,” Revision 0
SV3-EY01-VBR-003, “Equipment Qualification Summary Report for Low Voltage Power, Control and I&C Electrical Penetration Assemblies for the Use in the AP1000,” Revision 3
SV3-EY01-VBR-004, “Equipment Qualification Data Package for Low Voltage Power, Control and I&C Electrical Penetration Assemblies for the Use in the AP1000,” Revision 3
APP-EY01-VBR-001, “Equipment Qualification Summary Report for Medium Voltage Electrical Penetration Assemblies for Use in the AP1000 Plant,” Revision 4
SV3-EY01-E0R-101, “Electrical Penetration Assembly (EPA) SV3-ECS-EY-P01X-Weight Calculation Report,” Revision 1
SV3-EY01-E0R-106, “Electrical Penetration Assembly (EPA) SV3-ECS-EY-P06Y-Weight Calculation Report,” Revision 1
SV3-EY01-E0R-123, “Electrical Penetration Assembly (EPA) Sv3-ECS-EY-P23X-Weight Calculation Report,” Revision 1

Section 1A03
2.2.03.05a.i-U3-EQRR-PCD001, “Passive Core Cooling System EQ Reconciliation Report,” Revision 0
2.2.03.05a.i-U3-EQRR-PCD003, “Passive Core Cooling System EQ Reconciliation Report,” Revision 0
2.2.03.05a.i-U3-EQRR-PCD004, “Passive Core Cooling System EQ Reconciliation Report,” Revision 0
SV3-PV01-VBR-011, “Equipment Qualification Summary Report for Flowserve Flex Wedge Gate Valves with Limitorque Motor Operators for Use in the AP1000 Plant,” Revision 0
SV3-PV03-VBR-003, “Equipment Qualification Summary Report for ERV-Z Nozzle Check Valves for Use in the AP1000 Plant,” Revision
SV3-PV14-VBR-001, “Equipment Qualification Summary Report for Fisher HPNS Control Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV70-VBR-002, “Equipment Qualification Summary Report for 8” Squib Valves for Use in the AP1000 Plant,” Revision 0
SV3-PV03-VBR-013, “Equipment Qualification Summary Report for Flowserve Self-Actuated Swing Check Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV01-VBR-012, “Equipment Qualification Data Package for Flowserve Flex Wedge Gate Valves with Limitorque Motor Operators for Use in the AP1000 Plant,” Revision 0
SV3-PV03-VBR-004, “Equipment Qualification Data Package for ERV-Z Nozzle Check Valve for Use in the AP1000 Plant,” Revision 1
SV3-PV03-VBR-014, “Equipment Qualification Data Package for Flowserve Self-Actuated Swing Check Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV14-VBR-002, “Equipment Qualification Data Package for Fisher HPNS Control Valves for Use in the AP1000 Plant,” Revision 2
SV3-PV20-VBR-002, “Equipment Qualification Data Package for Air Operated Fisher Controls SS-264 Valve Assemblies for Use in the AP1000 Plant,” Revision 2
SV3-PV70-VBR-003, “Equipment Qualification Data Package for 8” Squib Valves for Use in the AP1000 Plant,” Revision 0
SV3-JE61-VBR-002, “Equipment Qualification Verification Checklist for Flow Level Transmitter PXS-JE-LT012B and PXS-JE-LT014C,” Revision 4

SV3-JE61-VQQ-002, “Quality Assurance Data Package for Core Makeup Tank Level Transmitters,” Revision 1
SV3-PXS-JEW-1034854, “U-3- Install Aux. Bldg. PXS Instruments, EL. 82’-6”, Area 2, Room 12207,” Revision 0
SV3-JE61-V1Y-100, “AP1000 Class 1E Core Makeup Tank Narrow Range Level Transmitters Design Configuration Drawing,” Revision 3
SV3-JE61-J0W-1017604, “Pipe Support Installation Data Sheet,” Revision 1
SV3-12222-J2-001, “Auxiliary Building Area 2 Instrument Installation Plan at Elevation 82’-6“,” Revision 4
SV3-JE52-VBR-002, “Equipment Qualification Data Package for Model DTN2070, Pressure and Differential Pressure Transmitter for Use in the AP1000 Plant,” Revision 1
SV3-PXS-P0W-ME2963, Work Package “Valve Disassembly/Reassembly Data Sheet for SV3-PXS-PL-V117A,” Revision 0
SV3-PXS-P0W-1009104, Work Package “Valve Disassembly/Reassembly Data Sheet for SV3-PXS-PL-V101,” Revision 0
SV3-PXS-PLW-020, “Passive Core Cooling System Containment BLDG. Room 11207 ISOL. Valves to Common Injection HDR,” Revision 4
SV3-PXS-P0W-1002641, “Work Package for ASME III- Fabricate /Install Pipe and Support Per Isometric # SV3-PXS-PLW-060,” Revision 0
SV3-PXS-P0W-800034, “Install ASME III Valve SV3-PXS-PL-V016B and Spool SV3-PXS-PLW-020-1F Per ISO SV3-PXS-PLW-020,” Revision 0
SV3-PXS-P0W-800045, “ASME III, Disassembly PXS Valves, Install Soft Parts And Flush Cover for Hydro, Then Restore PXS Valves To Original Configuration After Flush.” Revision 1
SV3-PXS-P0W-1057547, “ASME III- INSTALL SQUIB VALVE SV3-PXS-PL-V125B PER ISO SV3-PXS-PLW-02U,” Revision 0
Valve Disassembly/Reassembly Data Sheet for SV3-PXS-PL-V002B,” Revision 0
Work Order 1219969, “Verify Torque for CMT B Inlet MOV SV3-PXS-PL-V002B,” Revision 0
SV3-PXS-PLW-016, “Passive Core Cooling System Containment BLDG Room 11206 Common Injection Header To DVI-A,” Revision 2
SV3-PXS-PLW-035, “Passive Core Cooling System Containment BLDG. Room 11500 PRHR Supply Line,” Revision 2
SV3-PXS-PLW-041, “Passive Core Cooling System Containment BLDG. Room 11300 PRHR Return Line To SG 01,” Revision 2
SV3-PXS-PLW-060, “Passive Core Cooling System Containment BLDG. Room 11400 PXS Line from Cold Leg to CMT 02B,” Revision 3
SV3-PXS-PLW-470, “Passive Core Cooling System Containment BLDG Room 11206 Containment Recirc. Valves,” Revision 1
SV3-PXS-PLW-01K, “Passive Core Cooling System Containment BLDG Room 11206 CMT-1A Discharge Piping,” Revision 1
SV3-PXS-PLW-02U, “Passive Core Cooling System Containment BLDG Room 11207 IRWST & Cont. Recirc. To DVI-B,” Revision 1
SV3-PXS-PLW-02N, “Passive Core Cooling System Containment BLDG Room 11207 IRWST & Cont. Recirc. To DVI-B,” Revision 1
SV3-PV03-V2-186001, “AP1000 Nozzle Check Valve 8” Class 1707, Assembly Drawing APP-PV03-Z0D-186,” Revision 3
SV3-PV20-V2-101001, “PV20 Datasheet 101 Assembly Drawing,” Revision 2
SV3-PV14-V2-104001, “PV14 Datasheet 104 Assembly Drawing,” Revision 2
SV3-P70-V2-017, “8” HP-L Squib Valve Assembly Drawing Sheet 4 of 4,” Revision 2
SV3-PV14-Z0D-104, “PV01 Datasheet 104,” Revision 5
SV3-PV01-Z0D-114, “PV01 Datasheet 114,” Revision 0
SV3-PV01-Z0D-118, “PV01 Datasheet 118,” Revision 0

SV3-PV03-Z0D-186, “PV01 Datasheet 186,” Revision 1
SV3-PV03-Z0D-195, “PV01 Datasheet 195,” Revision 2

Section 1A04
Principal Closure Documents (PCDs)
SV3-1100-ITR-800195-4, Tag and Sign Inspection Report, Unit 3 ITAAC 2.2.03.08c.x (PXS Nonsafety-Related Caulking and Coatings: NRC Index 195), Revision 0
SV3-PXS-ITR-805195, Ventilation Filter and Fire Barrier Inspection Report, Unit 3 ITAAC 2.2.03.08c.x (PXS Nonsafety-Related Caulking and Coatings: NRC Index 195), Revision 0
SV3-PXS-ITR-803195, Caulking Inspection Report, Unit 3 ITAAC 2.2.03.08c.x (PXS Nonsafety-Related Caulking and Coatings: NRC Index 195), Revision 0
SV3-PXS-ITR-801195, Unit 3 On-Site Coating Inspection in Containment: ITAAC 2.2.03.08c.x NRC Index Number 195, Revision 0
SV3-AX01-GEC-000001, Vogtle Unit 3 Unqualified Coatings Log, Revision 1
SVO-GW-ITR-001, QADP Inspection Report Summary, Revision 0

Condition Report (CR)
CR-50117735, Divisional Color Bars and Acceptable Damage, dated 12/09/2021

Technical Evaluation (TE)
TE-60034620, Divisional Color Bars and Acceptable Damage – NCR TE for CR-50117735, dated 12/09/2021

Engineering Service Requests (ESRs)
ESR-50121839, Divisional Color Bars and Acceptable Damage – NCR TE for CR-50117735, dated 12/09/2021
APP-AX01-GEF-850074, ESR No. 50026938 - Add PSI-275 sealant to APP-G1-AX-002 (Zone PIC), Revision 0
SV3-AW20-GNR-00006, ESR 50117844 - AW20 Durawall Durawall caulk not acceptable less than 100 pct - ITAAC 195, Revision 0

Engineering & Design and Coordination Requests (E&DCRs)
APP-ECS-GEF-851062, Safety Related Color Bars for Divisional Identification (ESR 50121839 & 50124054), Revision 0
APP-GW-GEF-850294, ESRs 50041102 & 50043799: Add red, yellow, black & white inks for stenciling inside containment, Revision 0
APP-GW-GEF-850315, ESRs 50041102 & 50043799: Add blue ink for stenciling inside containment, Revision 0

Specifications
APP-GW-ZO-604, "Application of Protective Coatings to Systems, Structures and Components for the AP1000® Reactor Plant", Revision 9
SV3-GW-T2R-022, In-Containment Stencil Inks and Markers, Revision 0
SV3-AB01-Z0-001, Block-outs and Barriers (Penetrations, Seals and Fire Stops), Westinghouse Safety Class C, Seismic Category I, NUCLEAR SAFETY RELATED, Revision 9
APP-AB01-ZOX-001, Penetration Seal Schedule (PSS), Westinghouse Safety Class C, Seismic Category I, NUCLEAR SAFETY RELATED, Revision 5
SV3-GW-20-604, Application of Protective Coatings to Systems, Structures and Components for the AP1000 Reactor Plant, Revision 0
APP-GW-HT-002, Containment Coating Functional Requirements, Revision 4
APP-GW-HT-002, "Containment Coating Functional Requirements", Revision 4

APP-G1-X0-001, "Protective Coatings Design Requirements (Safety Class C and Seismic Category N/A), Revision 8
APP-G1-SX-001, "AP1000 Coating of Shop Fabricated Steel - Nuclear Safety Related (Safety Classification C, Seismic Category NS)", Revision 9
APP-G1-MX-001, "AP1000 Protective Coatings of OEM Components - Safety Class C and Seismic Category NS", Revision 8
APP-G1-PX-003, "Protective Coatings for Piping - Safety Classification C and Seismic Category NS", Revision 7
APP-G1-AX-002, "Field Coatings and Linings for Concrete and Metal Surfaces – Safety Classification C, Seismic Category NS", Revision 2
SV3-AE01-Z0-001, Moisture Barriers (i.e. Seals) for Containment Vessel (CV) and CA Modules, Westinghouse Safety Class D, Seismic Category NS, Revision 6
SV3-G1-AX-002, Field Coatings and Linings for Concrete and Metal Surfaces – Safety Classification C, Seismic Category NS, Revision 6

Procurement Documents
SVO-AB01-AOY-800000 (S&W 132175-SNG61633-00066), PRO-CAL-0001 Calibration Certification, Revision A
SVO-AB01-T7Y-800000 (S&W 132175-SNG61633-00078), 01-19-09294 PCI Promatec Certificate of Compliance, High Density Silicone Elastomer Part A and Part B, Revision C
SVO-AB01-T7R-800010 (S&W 132175-SNG61633-00113), 03-19-09294 PCI Promatec Certificate of Compliance, High Density Silicone Elastomer Part A and Part B, Revision B
Procedures
SVO-AB01-A0P-800027 (S&W 132175-SNG61633-00010), IP-0052-Vogtle Procedure: Installation & Repair of Promatec High Density Silicone Elastomer (HDSETM, SF-150NHTM & P. 90TM) Penetration Seals", Revision C
SVO-AB01-A01-800024 (S&W 132175-SNG61633-00019), QCP-0052-Vogtle Procedure: Installation Inspection of High Density-Silicone Elastomer (HDSE, SF-150NH or P-90), Revision C
SVO-AB01-A0I-800029 (S&W 132175-SNG61633-00024), QCP-0067-Vogtle Procedure: Density Verification, Revision A
WGS-3094-TWI-01 (SNC SVO-AX01-AOY-800016), Preparing Surfaces and Applying Coatings for Containment, Revision 0
APP-GW-GMP-005, "AP1000 Document Numbering Procedure", Revision 23
APP-AXO1-GEF-134, Unqualified Repair Coating on PV46 Valves, Revision 0

License Amendment Requests (LARs)
Unqualified Service Level I Coatings Program (LAR 17-039) submitted by Southern Nuclear Operating Company (SNC) for the Vogle Electric Generating Plant (VEGP). Units 3 and 4, on November 3, 2017, and supplemented March 28, 2016 Agencywide Documents Access and Management System (DAMS) Accession Nos. ML17307A201 and ML18087A147 respectively)
Drawings
SV3-1130-AY-001, Containment Vessel Moisture Barrier Seal, El 107'-2", Plan and Details, Revision 2
APP-AW20-Z0-001, Fire Rated Concrete/Steel Composite Metal Studded Walls and Ceilings, Revision 3

Miscellaneous

SVO-AT01-GNR-000011, EXPIRATION OF METASET, Revision 0
SVO-AT01-GNR-000020, Metaset Re-Validation to Reverse "Scrap", Revision 0
APP-GW-T2R-013, "AP1000® Containment Vessel Coating Test Report Summary", Revision 2
APP-GW-T2R-021, "Test Report Summary for Qualified Coating Systems Inside the AP1000 Containment Vessel and Radiologically Controlled Areas Outside of Containment", Revision 1
TR-017218, "Guideline for Sampling in the Commercial-Grade Item Acceptance Process" Revision 1
Electric Power Research Institute, Inc. (EPRI) 135470-G230.04-0054, "Acon Work Instruction - Surface Preparation and Coatings for Stone and Webster 2210N". October 2016
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Section 1A05
2.6.03.02.i-U3-EQRR-PCD001, “Class 1E DC and Uninterruptable Power Supply System (IDS) EQ Reconciliation Report (EQRR),” Revision 0
2.6.03.02.i-U3-EQRR-PCD002, “Class 1E DC and Uninterruptable Power Supply System (IDS) EQ Reconciliation Report (EQRR),” Revision 0
2.6.03.02.i-U3-EQRR-PCD003, “Class 1E DC and Uninterruptable Power Supply System (IDS) EQ Reconciliation Report (EQRR),” Revision 0
SV3-IDS-VBR-002, “Equipment Qualification Data Package for the Battery Charger (DC01), Inverter (DU01), and Regulating Transformer (DT01) for Use in the AP1000 Plant,” Revision 0
SV3-DC01-Z0-001, “Design Specification for Class 1E 250 VDC Battery Chargers for System IDS,” Revision 8
SV3-DD01-Z0-001, “Design Specification for Class 1E 250 VDC Distribution Panels for System IDS,” Revision 2
SV3-EA01-Z0-001, “Design Specification for Class 1E AC Distribution Panels for IDS System,” Revision 5
SV3-DF01-Z0-001, “Design Specification for Class 1E Fused Transfer Switchboxes,” Revision 4
SV3-DU01-Z0-001, “Design Specification for Class 1E Inverters, Static Transfer and Manual Bypass Switches for IDS System,” Revision 3
SV3-DT01-Z0-001, “Design Specification for Class 1E Regulating Transformers,” Revision 4
SV3-DK01-Z0-010, “Design Specification for Class 1E Motor Control Centers,” Revision 7
SV3-DB01-VBR-002, “Equipment Qualification Data Package for Class 1E 250 VDC Batteries for Use in the AP1000 Plant,” Revision 0
SV3-DB01-VBR-001, “Equipment Qualification Summary Report for the 250 VDC Batteries for Use in the AP1000 Plant,” Revision 0
SV3-DD01-VBR-002, “Equipment Qualification Data Package for the 250 VDC Distribution Panel (Commodity Code DD01) for Use in the AP1000 Plant,” Revision 3
SV3-DD01-VBR-001, “Equipment Qualification Summary Report for the 250 VDC Distribution Panel for Use in the AP1000 Plant,” Revision 4
SV3-EA01-VBR-004, “Equipment Qualification Data Package for Three-Phase AC Distribution Panel for Use in the AP1000 Plant,” Revision 0
SV3-EA01-VBR-003, “Equipment Qualification Summary Report for Three-Phase AC Distribution Panel for Use in the AP1000 Plant,” Revision 0
SV3-DF01-VBR-002, “Equipment Qualification Data Package for Fused Transfer Switchbox for Use in the AP1000 Plant,” Revision 2
SV3-DK01-VBR-002, “Equipment Qualification Data Package for the 250 VDC Motor Control Center (Commodity Code DK01) for Use in the AP1000 Plant,” Revision 4
SV3-DK01-VBR-001, “Equipment Qualification Summary Report for 250 VDC Motor Control Center (DK01) for Use in the AP1000 Plant,” Revision 4

SV3-DS01-VBR-002, “Equipment Qualification Data Package for 250 VDC Switchboard (Commodity Code DS01) for Use in the AP1000 Plant,” Revision 2
SV3-DF01-VBR-003, “Equipment Qualification Data Package for the Spare Battery Termination Box (Commodity Code DF03) for Use in the AP1000 Plant,” Revision 2
Work Package (WP) SV3-1222-DCW-1091262, “SV3-IDSC-DC-1/Div. C 250 VDC 24 Hr. Battery Charger,” Revision 0
WP SV3-IDSD-DDW-1021447, “U3-AUX. Install and Label Electrical Equipment SV3-IDSD-DD-1, Elev. 100’-0”, Area 1, Room 12305,” Revision 0
WP SV3-1222-DUW-1002951, “U3, INSTALL 208/120VAC DIV. B Inverters AUX Bldg. Elev. 82’-6” Room. 12207, Area 2, Revision 0
WP SV3-IDSA-EAW-1005415, “U3-AUX. Install and Label IDSA Electrical Equipment (IDSA-DD-1, EA-1, EA-2, EA-4) Elev. 100’-0” Room 12301, Area 2,” Revision 0
WP SV3-1222-DFW-1005233, “U3-AUX Install IDSA Fused Transfer Switch Box AUX. Bldg. Elev. 82’-6”, Room 12201, Area 2,” Revision 0
WP SV3-1222-DTW-1005296, “U3, Install IDSA Regulating Transformer AUX. Bldg. Elev. 82’-6” Room 12201, Area 2,” Revision 0
WP SV3-IDSC-DKW-1021279, “U3-AUX. - Install and Label SV3-IDSC-DK-1, Class 1E-250 VDC MCC-Elev.100’-0” Room 12313, Area 2,” Revision 0
SV3-DD01-VI-100, “AP1000 DD01 Class 1E Distribution Panels Outline Drawing: DC Panelboard APP-IDS-DD01,” Revision 2
Condition Reports 50102572, 50142973, 50143654
Work Order (WO) SV3-IDS-EWW-1145494, “U3 IDS AUX. Verify Torque Values for Cables in IDS Equipment Elev. 82’-6”, 100’-0” IAW CRs 50086819, 50087942, 5102572,” Revision 5
WO 129554, “SV3-IDSD-DD-1 – Replace missing bolts horizontal CKT panel covers DIV. D 250 VDC Dist. Panel (Safety-Related),” Revision 0
E&DCR No. APP-IDSA-GEF-850001, “Request alternate mounting material for mounting details for IDSA, B, C, D, D-DD01 Panels,” Revision 0
E&DCR No. APP-DU01-GEF-850000, “Provide Mounting Detail for DU01 and DTS01 IDUS Units (ESR 50028839),” Revision 0
E&DCR No. APP-DK01-GEF-850007, “Alternate detail to facilitate mounting IDSB-DK-1 cabinets with four corner bolts per enclosure,” Revision 0

Section 1A06
SV3-1000-ITR-800785, “Unit 3 Inspection Report: ITAAC 3.300.05c Accumulator Rooms and CVS Room Flood Prevention,” Revision 1
SV3-1231-E0-103, “Auxiliary Building Electrical Penetrations Area 1 Floor EL. 100’-0”,” Revision 4
Westinghouse Inspection Report (IR) E225-17-10178, “Conduit Installation- Embedded Electrical,” 8/17/17
IR E225-17-10221, “Conduit Installation- Embedded Electrical,” 10/18/17
APP-AB01-AB-003, “Blockouts and Barriers (Penetrations, Seals, and Fire Stops) Details,” Revision 6
Engineering Service Request (ESR) 50129752, “Pen Seal Leakage from the MCR”
SV3-1232-C0W-850000, “100’ ELEV. Floor Slab Area 2 (SP-18 and SP-18A),” Revision 1
SV3-1232-ERW-861442, “Install Conduit Sleeves for Penetration in Unit 3 AUX Building Floor Slabs ELEV. 100’-0” Area 2, RMS,” Revision 1
SV3-1243-EYW-800000, “U3 Install Electrical Penetrations, AUX. ELEV. 117’-6” Area 3, Column Line 1-7 TO 7.3,” Revision 0
SV3-0000-AD-101,” AP1000 Controlled Access Door Conduit Embedment Details,” Revision 3
SV3-1240-ADW-1101851, “Unit 3 Auxiliary Building Install Specialty Security Door, EL.117’-6”, Revision 0

SV3-PCS-EYW-800000, “U3 Fabricate and Install ELEC. FLR. Penetrations/Sleeves AUX. ELEV. 117”-6”, Area 1, Room 12406,” Revision 0

Section 1A07
Room 11401 (S/G West Cubicle El 116’ to 135’)
Work Packages
SV3-1140-EJW-1004439 “Install Conduit Supports,” Dated 2/15/2022
SV3-SMS-EJW-1055170 “Install SMS Junction Boxes and Supports,” Dated 10/6/2020

Quality Control Inspection Records
Raceway Inspection Record ERW-1021055 (Conduit CZC03), Dated 3/12/2022
Raceway Inspection Record ERW-1021055 (Conduit DZC07), Dated 3/15/2022
Raceway Inspection Record ERW-1021055 (Conduit AXC01), Dated 3/15/2022
Junction Box Inspection Record EJW-1004438 (EJ-PLV014A), Dated 4/11/2022
Raceway Junction Box Inspection Record EJW-1004438 (EJ-PLV004A), Dated 4/9/2022

Drawings
APP-1140-ER-101 “Conduit Layout SG West El 116’0” - 135’3”,” Revision 7
APP-1140-ER-801 “Conduit Layout Sections West,” Revision 4
APP-1140-ER-802 “Conduit Layout Sections West,” Revision 5

Condition Reports
50102657 “Extent of Condition Walkdown,” Dated 8/5/2021
50113484 “Conduit Nonconformances,” Dated 11/4/2021

Room 11501 (S/G West Cubicle El 135’ to 153’)
Work Packages
SV3-1151-SHW-1003610 “Install Conduit Supports,” Dated 5/27/2021

Quality Control Inspection Records
Raceway Inspection Record 1003610 “Room 11501 Conduit,” Dated 5/21/2021

Drawings
APP-1150-ER-103 “Conduit Layout SG West El 135’3” - 153’0”,” Revision 0
APP-1150-ER-805 “Conduit Layout Sections West,” Revision 0
APP-1150-ER-806 “Conduit Layout Sections West,” Revision 0

Condition Reports
50091577 “Extent of Condition Walkdown,” Dated 5/7/2021
50113713 “Design Routed Conduit Nonconformances,” Dated 11/5/2021

Room 11402 (S/G East Cubicle El 116’ to 135”)
Work Packages
SV3-1140-SHW-1113873 “Fabricate and Install Electrical Supports,” Dated 2/7/2022
SV3-1140-SHW-1153897 “Fabricate and Install Conduit Supports,” Dated 4/6/2022

Quality Control Inspection Records
Raceway Junction Box Inspection Record RCS-EJ-PLV004B-3 and PLV004D-3, Dated 4/8/2022

Drawings
SV3-1140-ER-102 “Conduit Layout SG East El 116’0” - 135’3”,” Revision 8
SV3-1140-ER-803 “Conduit Sections,” Revision 7
SV3-1140-ER-804 “Conduit Sections,” Revision 4

Condition Reports
50092176 “Extent of Condition Summary Room 11402,” Dated 5/12/2021

Room 11502 (S/G East Cubicle El 135’ to 153’)
Work Packages
SV3-1154-SHW-1114280 “Fabricate and Install Conduit Supports - Room 11502,” Dated 3/7/2021

Quality Control Inspection Records
Raceway and Accessories Inspection Record SV3-1151-ERW-1051088 “install and Label 1E Conduit - Room 11502,” Dated 4/9/2022

Drawings
SV3-1150-ER-102 “Conduit Layout SG East El 135’3” - 153’0”,” Revision 1
SV3-1150-ER-803 “Conduit Sections,” Revision 1
SV3-1150-ER-804 “Conduit Sections,” Revision 0

Condition Reports
50103063 “Extent of Condition Summary Room 11502,” Dated 8/9/2021

Room 11703 (Upper ADS Valve Area 176'-10 1/2")
Drawings
SV3-1152-ER-804, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4
SV3-1152-ER-806, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4
SV3-1152-ER-103, Conduit Layout Containment Building Area 2 EL 176'-9" - Top Class 1E Conduits, Revision 4

Quality Control Inspection Records
SV3-RCS-EWW-1037281, Raceway and Accessories Inspection Record: SV3-1143-ER-AXC09, Dated 3/16/2022
SV3-1152-ERW-1018673, Raceway and Accessories Inspection Record: SV3-1152-ER-AXC22, SV3-1152-ER-AYC12, SV3-1152-ER-AZC17, Dated 4/23/2022
SV3-1152-ERW-1016529, Raceway and Accessories Inspection Record: SV3-1143-ER-AZC26, Dated 4/25/2022
SV3-RCS-EWW-1053793, Cable Installation Inspection Record: SV3-RCS-EW-PLV004CXZC and SV3-PXS-EW-PLV125BVZC, Dated 1/20/2022

Work Packages
SV3-PXS-EWW-1045264, U3 CT/AUX TEST CABLES THRU EPA, INSTALL VENDOR PIGTAILS & TERM SYS PXS-1E CABLES IN SV3-PXS-EJPLV101-1 AND ASSOCIATED EQP, Revision 0
SV3-RCS-EVVW-1037303, SV3 CT TERMINATE SYS RCS -1E CABLES IN SV3-RCSEJ-PLV002A, SV3-RCS-EJ-PLV012A, SV3-RCS-EJPLV013A AND ASSOCIATED EQP, Revision 0

SV3-1152-ERW-1115264, U3 CT - INSTALL 1 E CONDUIT IN CONTAINMENT BUILDING, EL. 166'-0" - 176' 9", AREA 2, Revision 0

Miscellaneous
11703 Additional WTG Status, Dated 5/3/2022

Condition Reports
CR 50135161, ITAAC Review of Unit 3, Room 11703, Dated 4/15/2022
CR 50135202, ITAAC Review of Unit 3, Room 11703 (NSR), Dated 4/15/2022

Section 1A08
Rooms 12422 and 12423 (Reactor Switchgear Rooms 1&2)
Drawings
APP-1243-ER-101, Auxiliary Building Area 3 Non-Class 1E Conduit “X” Arrangement Plan at Elevation 117’-6”, Revision 13
APP-1243-ER-102, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 1), Revision 6
APP-1243-ER-103, Auxiliary Building Area 3 Class 1E Conduit Arrangement Plan at Elevation 117’-6”, Revision 4
APP-1243-ER-104, Auxiliary Building Area 3 Non-Class 1E Conduit “Y” Arrangement Plan at Elevation 117’-6”, Revision 9
APP-1243-ER-105, Auxiliary Building Area 3 Non-Class 1E Conduit “Z” Arrangement Plan at Elevation 117’-6”, Revision 8
APP-1243-ER-106, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 2), Revision 2

Work Packages
SV3-PMS-EWW-1055400 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP
SV3-P MS-EWW-1055459 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP
SV3-PMS-EWW-1055538 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP
SV3-PMS-EWW-1056637 – U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP
SV3-PMS-EWW-1056637 – U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP
SV3-PMS-EWW-1059950 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP
SV3-PMS-EWW-1131483 – U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES
SV3-PMS-EWW-1131485 - U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE
SV3-PMS-EWW-1143044 - U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE
SV3-PMS-EWW-1055400 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP
SV3-P MS-EWW-1055459 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP

SV3-PMS-EWW-1055538 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP
SV3-PMS-EWW-1056637 – U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP
SV3-PMS-EWW-1056637 – U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP
SV3-PMS-EWW-1059950 - U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP
SV3-PMS-EWW-1131483 – U3 AUX DE-TERM REWORK RE-TERM DIVISION 'A' CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES
SV3-PMS-EWW-1131485 - U3 AUX DE-TERM REWORK RE-TERM DIVISION 'C' CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE
SV3-PMS-EWW-1143044 - U3 AUX DE-TERM REWORK RE-TERM DIVISION 'B' CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE

Technical Evaluations
TE 60038884 – IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022
TE 60038884 – IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022

Condition Reports
CR 50131622 – ITAAC Review of Unit 3, Room 12422, Dated 3/23/2022
CR 50131857 – SV3-12422 misc. nonconformities, Dated 3/24/2022
CR 50081423 – IEEE 384 Violation, Rooms 12422 & 12423, Dated 3/4/2021
CR 50131406 – IEEE 384 Violation Room 12423 12423-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB, Dated 3/22/2022

Room 12312 (Division "C" RCP Trip Switchgear)
Work Packages
SV3-1232-ERW-1063285 "Install Conduit Room 12312," Dated 1/9/2020
SV3-1232-SHW-800073 "Install Cable Tray Supports," Dated 4/6/2018
SV3-PMS-EWW-1131485 "Rework Div "C" PMS EQP," Dated 2/10/2021

Quality Control Inspection Records
Pull Box Inspection Record ERW-1007571 (CYP02), Dated 11/23/2021
Termination Inspection Record ECS-EWW-1137092 "Terminal Jumpers per ESR 5011537," Dated 12/20/2021

Drawings
APP-1232-ER-101 "Class 1E Conduit Arrangement El 100'," Revision 15
APP-1232-ER-106 "Auxiliary Building Area 2 Class 1E Conduit Arrangement," Revision 6
APP-1232-ER-107 "Non-Class 1E Conduit Arrangement El 100'," Revision 7
APP-1232-ER-115 "Non-Class 1E Conduit Arrangement El 100'," Revision 2
APP-1232-ER-001 "Class 1E Cable Tray Arrangement El 100'," Revision 16
APP-1232-ER-003 "Non-Class 1E Cable Tray Arrangement El 100'," Revision 4

Condition Reports
50074284 "Extent of Condition- Electrical Separation in Room 12312," Dated 1/12/2021
50073246 "IEEE-384 Separation Issues," Dated 12/31/2020

Miscellaneous
SV3-ECS-EW-EPRCPES1CYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1DYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1GYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1HYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EWW-1061262, U3 AUX - TURBINE TERMINATE ECS-3 CABLES IN SV3-ECS-EV-61, SV3-ECS-ES-63, AND ASSOCIATED EQP, Revision 0
SV3-ECS-EWW-1061345, U3 AUX/TURB. TERMINATE ECS-3 CABLES IN SV3-ECSES-41, SV3-ECS-ES-43, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELE. 82'6", Revision 0
SV3-ECS-EW-ES32LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES42LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES52LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES62LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EWW-1061433, U3 AUX/TURB TERMINATE ECS-3 CABLES IN SV3-ECSES-31, SV3-ECS-ES-32, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELEV 82'6", Revision 0
SV3-SES-EW-EE12311P01AXN[PT], Cable Pull Ticket - 600V 2/C-8 AWG W/GROUND, Revision 0
SV3-SES-EWW-1085072, ATTACHMENT A-1 Installation Record Continuation Sheet for cable SV3-SES-EW-EE12311P01AXN, Dated 10/7/2020
SV3-WLS-EW-01601KZN[PT], Cable Pull Ticket - RS 485 NEXANS 10213524 2 PAIR CABLE ASSEMBLED AS A QUAD, Revision 5
SV3-WLS-EWW-1034955, SV3 AUX TERMINATE WLS-1 CABLES AT SV3-WLS-JDMISX01 AND ASSOCIATED EQP (EXCEPTION), Revision 0

Room 12304 (Division B I&C Penetration Room)
Condition Reports
CR 50123503, Roxtec Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 01/28/22
CR 50126996, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment IDS, Dated 02/22/22
CR 50126997, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 02/22/22
CR 50072768, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 12/22/20
CR 50072794, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 1/21/21
CR 50075417, IEEE 384 violations, Room 12304, Dated 12/22/20
CR 50121533, FE Identified conduit separation violations with SV3-1231-ER-NYC08 in Room 12304, Dated 1/13/22
CR 50123504, Roxtec Frame Type EMC Transit Incorrect Installation - Room 12304, Safety Related Equipment, IDS, Dated 1/28/22
CR 50123953, IEEE 384 violations, Room 12304, Dated 2/1/22
CR 50123998, Field Walkdowns for Room Unit 3 12304, Associated Circuit, Dated 2/1/22
CR 50127416, Roxtec Rectangular Frame Type Assemblies – Deficient Correction/Re-Installation, Room 12304 and 20308, Dated 2/24/22
CR 50127571, Mystery Pull Box (Design Documentation Not Found), and IEEE-384 Violation Between Respective Box and Free Air Cables from Tray SV3-1231-ER-BXT01HB(HA) - Room 12304, Dated 2/25/22

CR 50127649, Roxtec Single Gland/Round Frame Type Assemblies – Sealing Gasket Used on Internal Side of Cabinet, Impeding EMC Gland from Grounding - Room 12304, Dated 2/25/22
CR 50144333, NRC Identified IEEE 384 Issue in Unit 3 Room 12304, Dated 6/22/2022
CR 50144418, NRC-identified cables not properly secured in Roxtec glands in Unit 3 Room 12304, Dated 6/23/2022
CR 50144475, NRC-Identified Green Non-Cited-Violation of Cable Separation in Unit 3 Room 12304, Dated 6/23/2022

Drawings
APP-1231-ER-001, Auxiliary Building Area 1 Class 1E Cable Tray Arrangement Plan at Elevation 100'-0", Revision 13
APP-1231-ER-105, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100'-0" Room 12304 (Partial), Revision 8
APP-1231-ER-106, Auxiliary Building Area 1 Class 1E Conduit Arrangement Plan at Elevation 100'-0" Room 12304 & 12300 (Partial), Revision 9
APP-1231-ER-110, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100'-0" Sections and Details, Revision 4

Work Packages
SV3-1230-ERW-1114086, - U3 - AUX - Install-Label 1E Conduits and Pull Boxes - ELEV. 100' 0" — Rooms 12304, 12305 & 12313 — Areas 1 and 2, Revision 1
SV3-IDSB-EYW-1029970, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P3IY-ORC - ROOM 12304, Revision 2
SV3-IDSB-EYW-1031907, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P30Z-ORC, EL. 100'-0" ROOM 12304, Revision 2
SV3-PMS-JDW-1023214, U3 AUX - Install and Label Electrical Equipment (PMS-JDMTCB01, BCCB01, NICB01, BCCB01) Elev. 100' 0"-Room 12304 -Area 1, Revision 0
SV3-PXS-EWW-1045340, SV3 CT / AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-IDSA-DD-1, SV3-IDSB-DD-1, SV3-PMS-JDILCA01, SV3-PMS-JD-ILCB01 AND SV3-PXS-PL-V015A & SV3-PXS-PL-V015B, ROOMS 12301, 12304, 12412 AND 11206 & 11207 (PXS-1E & PMS-1 CABLES), Revision 1
SV3-SFS-EWW-1038944, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V075 VENDOR PIGTAIL CABLES AND SV3-PMS-JD- LCB02, ROOMS 11300 AND 12304 (SFS-1), Revision 0
SV3-SFS-EWW-1038947, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V033 VENDOR PIGTAIL CABLES AND SV3-PMS-JD-ILCB02, ROOMS 11206 AND 12304 (SFS-1), Revision 0

Quality Control Inspection Records
SV3-PMS-EWW-1061671, Cable: SV3-PMS-EW-JDMTCB011ZB, Dated 10/5/2020
SV3-IDSB-EWW-1052603, Cables: SV3-PMS-EW-JDBCCB0101AXB, SV3-PMS-EW-JDBCCB0201AXB, SV3-PMS-EW-JDMTCB0101AXB, and SV3-PSS-EW-PLV008BXB, Dated 5/10/2022
SV3-PMS-EWW-1058569 – Cable: SV3-RCS-EW-100202AZB, Dated 6/30/2020

Room 12305 (Division D I&C Penetration Room)

Condition Reports

CR 50066182, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 10/17/2020
CR 50102027, In-process rework of 1E and Non-1E Raceway in 12305, Dated 7/31/2021
CR-50111301, Cables in Room 12305 require re-work, Dated 10/19/2021
CR 50115613, Location tolerance violation on conduits SV3-1231-ER-DYC07, SV3-1231-ER-DYC09, SV3-1231-ER-DYC10, SV3-1231-ER-DYC14 in Room 12305, Dated 11/20/2021
CR 50145108, NRC-identified cable separation nonconformances in Unit 3 Room 12305, Dated 6/28/2022
CR 50145447, NRC identified additional examples of cable separation Non-Cited Violation, Dated 6/30/2022

Technical Evaluations

TE 60024364, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 4/22/2021
TE 60032007, Cables in Room 12305 require re-work, Dated 11/6/2021

Drawings

APP-CVS-E5-PLV09002, COMBINED WIRING DIAGRAM APP-CVS-PL-V090 MAKEUP LINE CONT ISOLATION VALVE – ORC SH 2 OF4, Revision 4
APP-SGS-E5-PLV036A01, COMBINED WIRING DIAGRAM APP-SGS-PL-V036A SG 1 STEAM LINE COND DRAIN ISOL VALVE, Revision 2
APP-VWS-E5-PLV5102, APP-VWS -PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 2 OF 2, Revision 1
APP-VWS-E5-PLV5101, COMBINED WIRING DIAGRAM APP-VWS-PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 1 OF 2, Revision 2
APP-SGS-M6-001, PIPING AND INSTRUMENTATION DIAGRAM STEAM GENERATOR SYSTEM, Revision 1
APP-VWS-M6-003, PIPING AND INSTRUMENTATION DIAGRAM CENTRAL CHILLED WATER SYSTEM, Revision 8
APP-CVS-M6-005, PIPING AND INSTRUMENTATION DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM, Revision 14
APP-CVS-E5-PLV09102, COMBINED WIRING DIAGRAM APP-CVS-PL-V091 MAKEUP LINE CONT ISOLATION VALVE – IRC SH 2 OF 4, Revision 3

Work Packages

SV3-12305-EOW-1162041, Attachment A - Cable Installation Inspection Record, Dated 6/29/2022
SV3-1231-DKW-1019987, U3 - AUX - INSTALL SV3-IDSD-DK-1, Div D 250 VDC MCC, EL 100'-0" - ROOM 12305 - AREA 1, Revision 0
SV3-CVS-EWW-1044632, U3 AUX PULL CVS-1 CABLE FROM SV3-IDSD-DD-1 AND ASSOCIATED EQP, Revision 0

SV3-IDSD-DDW-1021447, U3 -AUX INSTALL AND LABEL ELECTRICAL EQUIPMENT SV3-IDSD-DD-1, ELEV. 100'-0", AREA 1, ROOM 12305, Revision 0
SV3-P15Y-EWW-1037099, U3 AUX - TERMINATE CABLES AT EPA SV3-IDSD-EY-P15Y-ORC - ALL MODULES - ROOM 12305, Revision 0
SV3-P16Y-EWW-1035085, U3 AUX - MATERIAL TRACKING PACKAGE FOR SV3-IDSD-EY-P16Y-ORC TERMINATIONS - ROOM 12305, Revision 0
SV3-PMS-EWW-1052712, U3 AUX - BULK CABLE PULL (ORC-1259) TO EPA P14Z - EL 100'-0" - AREA 1 - ROOM 12305/12301, Revision 0
SV3-PMS-EWW-1057507, U3 AUX TERMINATE PMS-1 CABLES IN SV3-IDSD-DD-1, SV3-IDSD-DK-1, AND ASSOCIATED EQP, Revision 2

Miscellaneous
SV3-SGS-EW-PLV036AHYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-VWS-EW-PLV086HYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-CVS-EW-PLV090KZD[PT], Cable Pull Ticket - 600V 12/C-14 AWG W/OVERALL SHIELD, Revision 0
SV3-MSS-EW-PLV002NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 4
SV3-RCS-EW-PLV002BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-RCS-EW-PLV012BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-MSS-EW-PLV005NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 3

Section 1A09
Principal Closure Documents/ITAAC Technical Reports
Unit 3 Cable Separation Report for the Enclosed Raceways or Barriers for Wiring in the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0
Unit 3 Cable Separation Report for the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0

Rooms 12251 (Demineralizer/Filter Access Area), 12256 (Containment Isolation Valve Room), 12354 (Mid Annulus Access Room), and Room 12365 (Waste Monitor Tank Room B)

Condition Reports
CR 50123792 – Room 12251 issues, Dated 1/31/2022
CR 50113807 – Electrical Punchlist Items South Aux Elevation 82’-6” Room 12251, Dated 11/6/2021
CR 70001835 – Room 12251 – APP-RLS-EA-001 Primary Power Cables Terminated in Wrong Area of Panel Creating Increased Arc Potential Safety Hazard, Dated 4/27/2022
CR 50142658 - I&C/U3/12251/VAS/X2MWISLE – as built dimensions do not match latest design, Dated 6/9/2022
CR 50113626 – Punch list room 12256 – FE Identified, Dated 11/5/2021
CR 50113894 – Design Routed Conduit Non-conformances – South Aux. El. 82’-6” (Rooms 12254 – 12256), Dated 11/8/2021
CR 50113987 – Electrical Punchlist Items South Aux Elevation 82’-6” Room 12256, Dated 11/8/2021

CR 50138355 – ITAAC Review of Unit 3, Room 12256 (SR), Dated 5/7/2022
CR 50129973 – RM 12354 ITAAC IEEE 384 Walkdown Safety-Related Installation Non-conformance, Dated 3/14/2022
CR 50073050 – IEEE 384, Sep Violation, Unit 3, Room 12354, Above Doorway to Room 12354, Dated 12/28/2020
CR 50108634 – In process rework of 1E and Non-1E Raceway in 12354, Dated 9/27/2021
CR 50130050 – RM 12365 ITAAC IEEE 3384 Walkdown Safety-Related Installation Non-conformance, Dated 3/15/2022
CR 50073056 – IEEE 384, Sep Violation, Unit 3, Room 12365, Dated 12/28/2020
CR 70001423 – Install Scheduled Field routed conduit in "Waste Monitor Tank Room 8" (12365), Dated 10/16/2021

Drawings
APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100'-0", Revision 6
APP-1234-ER-101, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 11
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8
APP-CA20-ER-419, Auxiliary Building Area 6 CA20 Module Conduit Arrangement Plan at Elevation 100'-0", Revision 8

Section 1A10
Room 11401 (S/G West Cubicle El 116' to 135')
Work Packages
SV3-1140-EJW-1004439 "Install Conduit Supports," Dated 2/15/2022
SV3-SMS-EJW-1055170 "Install SMS Junction Boxes and Supports," Dated 10/6/2020

Quality Control Inspection Records
Raceway Inspection Record ERW-1021055 (Conduit CZC03), Dated 3/12/2022
Raceway Inspection Record ERW-1021055 (Conduit DZC07), Dated 3/15/2022
Raceway Inspection Record ERW-1021055 (Conduit AXC01), Dated 3/15/2022
Junction Box Inspection Record EJW-1004438 (EJ-PLV014A), Dated 4/11/2022
Raceway Junction Box Inspection Record EJW-1004438 (EJ-PLV004A), Dated 4/9/2022

Drawings
APP-1140-ER-101 "Conduit Layout SG West El 116'0" - 135'3"," Revision 7
APP-1140-ER-801 "Conduit Layout Sections West," Revision 4
APP-1140-ER-802 "Conduit Layout Sections West," Revision 5

Condition Reports
50102657 "Extent of Condition Walkdown," Dated 8/5/2021
50113484 "Conduit Nonconformances," Dated 11/4/2021

Room 11501 (S/G West Cubicle El 135' to 153')
Work Packages
SV3-1151-SHW-1003610 "Install Conduit Supports," Dated 5/27/2021

Quality Control Inspection Records
Raceway Inspection Record 1003610 "Room 11501 Conduit," Dated 5/21/2021

Drawings
APP-1150-ER-103 “Conduit Layout SG West El 135’3” - 153’0”,” Revision 0
APP-1150-ER-805 “Conduit Layout Sections West,” Revision 0
APP-1150-ER-806 “Conduit Layout Sections West,” Revision 0

Condition Reports
50091577 “Extent of Condition Walkdown,” Dated 5/7/2021
50113713 “Design Routed Conduit Nonconformances,” Dated 11/5/2021

Room 11402 (S/G East Cubicle El 116’ to 135”)
Work Packages
SV3-1140-SHW-1113873 “Fabricate and Install Electrical Supports,” Dated 2/7/2022
SV3-1140-SHW-1153897 “Fabricate and Install Conduit Supports,” Dated 4/6/2022

Quality Control Inspection Records
Raceway Junction Box Inspection Record RCS-EJ-PLV004B-3 and PLV004D-3, Dated 4/8/2022

Drawings
SV3-1140-ER-102 “Conduit Layout SG East El 116’0” - 135’3”,” Revision 8
SV3-1140-ER-803 “Conduit Sections,” Revision 7
SV3-1140-ER-804 “Conduit Sections,” Revision 4

Condition Reports
50092176 “Extent of Condition Summary Room 11402,” Dated 5/12/2021

Room 11502 (S/G East Cubicle El 135’ to 153’)
Work Packages
SV3-1154-SHW-1114280 “Fabricate and Install Conduit Supports - Room 11502,” Dated 3/7/2021

Quality Control Inspection Records
Raceway and Accessories Inspection Record SV3-1151-ERW-1051088 “install and Label 1E Conduit - Room 11502,” Dated 4/9/2022

Drawings
SV3-1150-ER-102 “Conduit Layout SG East El 135’3” - 153’0”,” Revision 1
SV3-1150-ER-803 “Conduit Sections,” Revision 1
SV3-1150-ER-804 “Conduit Sections,” Revision 0

Condition Reports
50103063 “Extent of Condition Summary Room 11502,” Dated 8/9/2021

Room 11703 (Upper ADS Valve Area 176'-10 1/2")
Drawings
SV3-1152-ER-804, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4
SV3-1152-ER-806, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4

SV3-1152-ER-103, Conduit Layout Containment Building Area 2 EL 176'-9" - Top Class 1E Conduits, Revision 4

Quality Control Inspection Records
SV3-RCS-EWW-1037281, Raceway and Accessories Inspection Record: SV3-1143-ER-AXC09, Dated 3/16/2022
SV3-1152-ERW-1018673, Raceway and Accessories Inspection Record: SV3-1152-ER-AXC22, SV3-1152-ER-AYC12, SV3-1152-ER-AZC17, Dated 4/23/2022
SV3-1152-ERW-1016529, Raceway and Accessories Inspection Record: SV3-1143-ER-AZC26, Dated 4/25/2022
SV3-RCS-EWW-1053793, Cable Installation Inspection Record: SV3-RCS-EW-PLV004CXZC and SV3-PXS-EW-PLV125BVZC, Dated 1/20/2022

Work Packages
SV3-PXS-EWW-1045264, U3 CT/AUX TEST CABLES THRU EPA, INSTALL VENDOR PIGTAILS & TERM SYS PXS-1E CABLES IN SV3-PXS-EJPLV101-1 AND ASSOCIATED EQP, Revision 0
SV3-RCS-EVVW-1037303, SV3 CT TERMINATE SYS RCS -1E CABLES IN SV3-RCSEJ-PLV002A, SV3-RCS-EJ-PLV012A, SV3-RCS-EJPLV013A AND ASSOCIATED EQP, Revision 0
SV3-1152-ERW-1115264, U3 CT - INSTALL 1 E CONDUIT IN CONTAINMENT BUILDING, EL. 166'-0" - 176' 9", AREA 2, Revision 0

Miscellaneous
11703 Additional WTG Status, Dated 5/3/2022

Condition Reports
CR 50135161, ITAAC Review of Unit 3, Room 11703, Dated 4/15/2022
CR 50135202, ITAAC Review of Unit 3, Room 11703 (NSR), Dated 4/15/2022

Room 11400 (Maintenance Floor/Mezzanine)
Drawings
SV3-1144-ER-901, Tray Layout Containment Building Area 2 EL 118'-6" - 135'-3", Revision 6
SV3-1144-ER-002, Tray Layout Containment Building Area 4 EL 118'-6" - 135'-3" Class 1E Trays, Revision 7

Section 1A11
Rooms 12422 and 12423 (Reactor Switchgear Rooms 1&2)
Drawings
APP-1243-ER-101, Auxiliary Building Area 3 Non-Class 1E Conduit “X” Arrangement Plan at Elevation 117’-6”, Revision 13
APP-1243-ER-102, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 1), Revision 6
APP-1243-ER-103, Auxiliary Building Area 3 Class 1E Conduit Arrangement Plan at Elevation 117’-6”, Revision 4
APP-1243-ER-104, Auxiliary Building Area 3 Non-Class 1E Conduit “Y” Arrangement Plan at Elevation 117’-6”, Revision 9
APP-1243-ER-105, Auxiliary Building Area 3 Non-Class 1E Conduit “Z” Arrangement Plan at Elevation 117’-6”, Revision 8
APP-1243-ER-106, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 2), Revision 2

Work Packages
SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0
SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0
SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-1243-ELW-1012728, U3 AUX BLDG, INSTALL UNSCHEDULED LIGHTING CABLES FOR FIXTURES, RECEPTACLES, ETC., ROOM 12423, EL 117' 6", AREA 3, Revision 0
SV3-VXS-EWW-1090005, U3 AUX/ANNEX SYS VXS-1, TERMINATE CABLES /INSTALL VENDOR SUPPLIED PIGTAIL AND UNSCHEDULED RACEWAY RELATED TO SV3-VXS-EJMDD084, SV3-VXS-EJ-MDD085 AND ASSOCIATED EQUIPMENT ROOMS 12423, 12321, 40503, Revision 0

Technical Evaluations

TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022
TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022

Condition Reports
CR 50131622, ITAAC Review of Unit 3, Room 12422, Dated 3/23/2022
CR 50131857, SV3-12422 misc. nonconformities, Dated 3/24/2022
CR 50081423, IEEE 384 Violation, Rooms 12422 & 12423, Dated 3/4/2021
CR 50131406, IEEE 384 Violation Room 12423 12423-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB, Dated 3/22/2022

Room 12312 (Division "C" RCP Trip Switchgear)
Work Packages
SV3-1232-ERW-1063285 "Install Conduit Room 12312," Dated 1/9/2020
SV3-1232-SHW-800073 "Install Cable Tray Supports," Dated 4/6/2018
SV3-PMS-EWW-1131485 "Rework Div "C" PMS EQP," Dated 2/10/2021

Quality Control Inspection Records
Pull Box Inspection Record ERW-1007571 (CYP02), Dated 11/23/2021
Termination Inspection Record ECS-EWW-1137092 "Terminal Jumpers per ESR 5011537," Dated 12/20/2021

Drawings
APP-1232-ER-101 "Class 1E Conduit Arrangement El 100'," Revision 15
APP-1232-ER-106 "Auxiliary Building Area 2 Class 1E Conduit Arrangement," Revision 6
APP-1232-ER-107 "Non-Class 1E Conduit Arrangement El 100'," Revision 7
APP-1232-ER-115 "Non-Class 1E Conduit Arrangement El 100'," Revision 2
APP-1232-ER-001 "Class 1E Cable Tray Arrangement El 100'," Revision 16
APP-1232-ER-003 "Non-Class 1E Cable Tray Arrangement El 100'," Revision 4

Condition Reports
50074284 "Extent of Condition- Electrical Separation in Room 12312," Dated 1/12/2021
50073246 "IEEE-384 Separation Issues," Dated 12/31/2020

Miscellaneous
SV3-ECS-EW-EPRCPES1CYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1DYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1GYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1HYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EWW-1061262, U3 AUX - TURBINE TERMINATE ECS-3 CABLES IN SV3-ECS-EV-61, SV3-ECS-ES-63, AND ASSOCIATED EQP, Revision 0
SV3-ECS-EWW-1061345, U3 AUX/TURB. TERMINATE ECS-3 CABLES IN SV3-ECSES-41, SV3-ECS-ES-43, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELE. 82'6", Revision 0
SV3-ECS-EW-ES32LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES42LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES52LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES62LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EWW-1061433, U3 AUX/TURB TERMINATE ECS-3 CABLES IN SV3-ECSES-31, SV3-ECS-ES-32, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELEV

82'6", Revision 0
SV3-SES-EW-EE12311P01AXN[PT], Cable Pull Ticket - 600V 2/C-8 AWG W/GROUND, Revision 0
SV3-SES-EWW-1085072, ATTACHMENT A-1 Installation Record Continuation Sheet for cable SV3-SES-EW-EE12311P01AXN, Dated 10/7/2020
SV3-WLS-EW-01601KZN[PT], Cable Pull Ticket - RS 485 NEXANS 10213524 2 PAIR CABLE ASSEMBLED AS A QUAD, Revision 5
SV3-WLS-EWW-1034955, SV3 AUX TERMINATE WLS-1 CABLES AT SV3-WLS-JDMISX01 AND ASSOCIATED EQP (EXCEPTION), Revision 0

Room 12304 (Division B I&C Penetration Room)

Condition Reports

CR 50123503, Roxtec Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 01/28/22
CR 50126996, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment IDS, Dated 02/22/22
CR 50126997, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 02/22/22
CR 50072768, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 12/22/20
CR 50072794, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 1/21/21
CR 50075417, IEEE 384 violations, Room 12304, Dated 12/22/20
CR 50121533, FE Identified conduit separation violations with SV3-1231-ER-NYC08 in Room 12304, Dated 1/13/22
CR 50123504, Roxtec Frame Type EMC Transit Incorrect Installation - Room 12304, Safety Related Equipment, IDS, Dated 1/28/22
CR 50123953, IEEE 384 violations, Room 12304, Dated 2/1/22
CR 50123998, Field Walkdowns for Room Unit 3 12304, Associated Circuit, Dated 2/1/22
CR 50127416, Roxtec Rectangular Frame Type Assemblies – Deficient Correction/Re-Installation, Room 12304 and 20308, Dated 2/24/22
CR 50127571, Mystery Pull Box (Design Documentation Not Found), and IEEE-384 Violation Between Respective Box and Free Air Cables from Tray SV3-1231-ER-BXT01HB(HA) - Room 12304, Dated 2/25/22
CR 50127649, Roxtec Single Gland/Round Frame Type Assemblies – Sealing Gasket Used on Internal Side of Cabinet, Impeding EMC Gland from Grounding - Room 12304, Dated 2/25/22
CR 50144333, NRC Identified IEEE 384 Issue in Unit 3 Room 12304, Dated 6/22/2022
CR 50144418, NRC-identified cables not properly secured in Roxtec glands in Unit 3 Room 12304, Dated 6/23/2022
CR 50144475, NRC-Identified Green Non-Cited-Violation of Cable Separation in Unit 3 Room 12304, Dated 6/23/2022

Drawings

APP-1231-ER-001, Auxiliary Building Area 1 Class 1E Cable Tray Arrangement Plan at Elevation 100’-0”, Revision 13
APP-1231-ER-105, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Room 12304 (Partial), Revision 8
APP-1231-ER-106, Auxiliary Building Area 1 Class 1E Conduit Arrangement Plan at Elevation 100’-0” Room 12304 & 12300 (Partial), Revision 9
APP-1231-ER-110, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Sections and Details, Revision 4

Work Packages
SV3-1230-ERW-1114086, - U3 - AUX - Install-Label 1E Conduits and Pull Boxes - ELEV. 100' 0" — Rooms 12304, 12305 & 12313 — Areas 1 and 2, Revision 1
SV3-IDSB-EYW-1029970, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P3IY-ORC - ROOM 12304, Revision 2
SV3-IDSB-EYW-1031907, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P30Z-ORC, EL. 100'-0" ROOM 12304, Revision 2
SV3-PMS-JDW-1023214, U3 AUX - Install and Label Electrical Equipment (PMS-JDMTCB01, BCCB01, NICB01, BCCB01) Elev. 100' 0"-Room 12304 -Area 1, Revision 0
SV3-PXS-EWW-1045340, SV3 CT / AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-IDSA-DD-1, SV3-IDSB-DD-1, SV3-PMS-JDILCA01, SV3-PMS-JD-ILCB01 AND SV3-PXS-PL-V015A & SV3-PXS-PL-V015B, ROOMS 12301, 12304, 12412 AND 11206 & 11207 (PXS-1E & PMS-1 CABLES), Revision 1
SV3-SFS-EWW-1038944, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V075 VENDOR PIGTAIL CABLES AND SV3-PMS-JD- LCB02, ROOMS 11300 AND 12304 (SFS-1), Revision 0

SV3-SFS-EWW-1038947, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V033 VENDOR PIGTAIL CABLES AND SV3-PMS-JD-ILCB02, ROOMS 11206 AND 12304 (SFS-1), Revision 0

Quality Control Inspection Records
SV3-PMS-EWW-1061671, Cable: SV3-PMS-EW-JDMTCB011ZB, Dated 10/5/2020
SV3-IDSB-EWW-1052603, Cables: SV3-PMS-EW-JDBCCB0101AXB, SV3-PMS-EW-JDBCCB0201AXB, SV3-PMS-EW-JDMTCB0101AXB, and SV3-PSS-EW-PLV008BXB, Dated 5/10/2022
SV3-PMS-EWW-1058569 – Cable: SV3-RCS-EW-100202AZB, Dated 6/30/2020

Room 12305 (Division D I&C Penetration Room)
Condition Reports
CR 50066182, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 10/17/2020
CR 50102027, In-process rework of 1E and Non-1E Raceway in 12305, Dated 7/31/2021
CR-50111301, Cables in Room 12305 require re-work, Dated 10/19/2021
CR 50115613, Location tolerance violation on conduits SV3-1231-ER-DYC07, SV3-1231-ER-DYC09, SV3-1231-ER-DYC10, SV3-1231-ER-DYC14 in Room 12305, Dated 11/20/2021
CR 50145108, NRC-identified cable separation nonconformances in Unit 3 Room 12305, Dated 6/28/2022
CR 50145447, NRC identified additional examples of cable separation Non-Cited Violation, Dated 6/30/2022

Technical Evaluations
TE 60024364, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 4/22/2021
TE 60032007, Cables in Room 12305 require re-work, Dated 11/6/2021

Drawings
APP-CVS-E5-PLV09002, COMBINED WIRING DIAGRAM APP-CVS-PL-V090 MAKEUP LINE CONT ISOLATION VALVE – ORC SH 2 OF4, Revision 4
APP-SGS-E5-PLV036A01, COMBINED WIRING DIAGRAM APP-SGS-PL-V036A SG 1 STEAM LINE COND DRAIN ISOL VALVE, Revision 2
APP-VWS-E5-PLV5102, APP-VWS -PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 2 OF 2, Revision 1
APP-VWS-E5-PLV5101, COMBINED WIRING DIAGRAM APP-VWS-PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 1 OF 2, Revision 2
APP-SGS-M6-001, PIPING AND INSTRUMENTATION DIAGRAM STEAM GENERATOR SYSTEM, Revision 1
APP-VWS-M6-003, PIPING AND INSTRUMENTATION DIAGRAM CENTRAL CHILLED WATER SYSTEM, Revision 8
APP-CVS-M6-005, PIPING AND INSTRUMENTATION DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM, Revision 14
APP-CVS-E5-PLV09102, COMBINED WIRING DIAGRAM APP-CVS-PL-V091 MAKEUP LINE CONT ISOLATION VALVE – IRC SH 2 OF 4, Revision 3

Work Packages
SV3-12305-EOW-1162041, Attachment A - Cable Installation Inspection Record, Dated 6/29/2022
SV3-1231-DKW-1019987, U3 - AUX - INSTALL SV3-IDSD-DK-1, Div D 250 VDC MCC, EL 100'-0" - ROOM 12305 - AREA 1, Revision 0
SV3-CVS-EWW-1044632, U3 AUX PULL CVS-1 CABLE FROM SV3-IDSD-DD-1 AND ASSOCIATED EQP, Revision 0
SV3-IDSD-DDW-1021447, U3 -AUX INSTALL AND LABEL ELECTRICAL EQUIPMENT SV3-IDSD-DD-1, ELEV. 100'-0", AREA 1, ROOM 12305, Revision 0
SV3-P15Y-EWW-1037099, U3 AUX - TERMINATE CABLES AT EPA SV3-IDSD-EY-P15Y-ORC - ALL MODULES - ROOM 12305, Revision 0
SV3-P16Y-EWW-1035085, U3 AUX - MATERIAL TRACKING PACKAGE FOR SV3-IDSD-EY-P16Y-ORC TERMINATIONS - ROOM 12305, Revision 0
SV3-PMS-EWW-1052712, U3 AUX - BULK CABLE PULL (ORC-1259) TO EPA P14Z - EL 100'-0" - AREA 1 - ROOM 12305/12301, Revision 0
SV3-PMS-EWW-1057507, U3 AUX TERMINATE PMS-1 CABLES IN SV3-IDSD-DD-1, SV3-IDSD-DK-1, AND ASSOCIATED EQP, Revision 2

Miscellaneous
SV3-SGS-EW-PLV036AHYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-VWS-EW-PLV086HYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-CVS-EW-PLV090KZD[PT], Cable Pull Ticket - 600V 12/C-14 AWG W/OVERALL SHIELD, Revision 0
SV3-MSS-EW-PLV002NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 4
SV3-RCS-EW-PLV002BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-RCS-EW-PLV012BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-MSS-EW-PLV005NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 3

Section 1A12
Principal Closure Documents/ITAAC Technical Reports
Unit 3 Cable Separation Report for the Enclosed Raceways or Barriers for Wiring in the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0
Unit 3 Cable Separation Report for the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0

Rooms 12251 (Demineralizer/Filter Access Area), 12256 (Containment Isolation Valve Room), 12354 (Mid Annulus Access Room), and Room 12365 (Waste Monitor Tank Room B)
Condition Reports
CR 50123792 – Room 12251 issues, Dated 1/31/2022
CR 50113807 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12251, Dated 11/6/2021
CR 70001835 – Room 12251 – APP-RLS-EA-001 Primary Power Cables Terminated in Wrong Area of Panel Creating Increased Arc Potential Safety Hazard, Dated 4/27/2022
CR 50142658 - I&C/U3/12251/VAS/X2MWISLE – as built dimensions do not match latest design, Dated 6/9/2022
CR 50113626 – Punch list room 12256 – FE Identified, Dated 11/5/2021

CR 50113894 – Design Routed Conduit Non-conformances – South Aux. El. 82'-6" (Rooms 12254 – 12256), Dated 11/8/2021
CR 50113987 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12256, Dated 11/8/2021
CR 50138355 – ITAAC Review of Unit 3, Room 12256 (SR), Dated 5/7/2022
CR 50129973 – RM 12354 ITAAC IEEE 384 Walkdown Safety-Related Installation Non-conformance, Dated 3/14/2022
CR 50073050 – IEEE 384, Sep Violation, Unit 3, Room 12354, Above Doorway to Room 12354, Dated 12/28/2020
CR 50108634 – In process rework of 1E and Non-1E Raceway in 12354, Dated 9/27/2021
CR 50130050 – RM 12365 ITAAC IEEE 3384 Walkdown Safety-Related Installation Non-conformance, Dated 3/15/2022
CR 50073056 – IEEE 384, Sep Violation, Unit 3, Room 12365, Dated 12/28/2020
CR 70001423 – Install Scheduled Field routed conduit in "Waste Monitor Tank Room 8" (12365), Dated 10/16/2021

Drawings
APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100'-0", Revision 6
APP-1234-ER-101, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 11
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8
APP-CA20-ER-419, Auxiliary Building Area 6 CA20 Module Conduit Arrangement Plan at Elevation 100'-0", Revision 8

Section 1A13
Rooms 12422 and 12423 (Reactor Switchgear Rooms 1&2)
Drawings
APP-1243-ER-101, Auxiliary Building Area 3 Non-Class 1E Conduit “X” Arrangement Plan at Elevation 117’-6”, Revision 13
APP-1243-ER-102, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 1), Revision 6
APP-1243-ER-103, Auxiliary Building Area 3 Class 1E Conduit Arrangement Plan at Elevation 117’-6”, Revision 4
APP-1243-ER-104, Auxiliary Building Area 3 Non-Class 1E Conduit “Y” Arrangement Plan at Elevation 117’-6”, Revision 9
APP-1243-ER-105, Auxiliary Building Area 3 Non-Class 1E Conduit “Z” Arrangement Plan at Elevation 117’-6”, Revision 8
APP-1243-ER-106, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 2), Revision 2

Work Packages
SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0
SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0
SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0

SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-1243-ELW-1012728, U3 AUX BLDG, INSTALL UNSCHEDULED LIGHTING CABLES FOR FIXTURES, RECEPTACLES, ETC., ROOM 12423, EL 117' 6", AREA 3, Revision 0
SV3-VXS-EWW-1090005, U3 AUX/ANNEX SYS VXS-1, TERMINATE CABLES /INSTALL VENDOR SUPPLIED PIGTAIL AND UNSCHEDULED RACEWAY RELATED TO SV3-VXS-EJMDD084, SV3-VXS-EJ-MDD085 AND ASSOCIATED EQUIPMENT ROOMS 12423, 12321, 40503, Revision 0

Technical Evaluations
TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022
TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022

Condition Reports
CR 50131622, ITAAC Review of Unit 3, Room 12422, Dated 3/23/2022
CR 50131857, SV3-12422 misc. nonconformities, Dated 3/24/2022
CR 50081423, IEEE 384 Violation, Rooms 12422 & 12423, Dated 3/4/2021
CR 50131406, IEEE 384 Violation Room 12423 12423-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB, Dated 3/22/2022

Room 12312 (Division “C” RCP Trip Switchgear)
Work Packages
SV3-1232-ERW-1063285 “Install Conduit Room 12312,” Dated 1/9/2020
SV3-1232-SHW-800073 “Install Cable Tray Supports,” Dated 4/6/2018
SV3-PMS-EWW-1131485 “Rework Div “C” PMS EQP,” Dated 2/10/2021

Quality Control Inspection Records
Pull Box Inspection Record ERW-1007571 (CYP02), Dated 11/23/2021
Termination Inspection Record ECS-EWW-1137092 “Terminal Jumpers per ESR 5011537,” Dated 12/20/2021

Drawings
APP-1232-ER-101 “Class 1E Conduit Arrangement El 100’,” Revision 15
APP-1232-ER-106 “Auxiliary Building Area 2 Class 1E Conduit Arrangement,” Revision 6
APP-1232-ER-107 “Non-Class 1E Conduit Arrangement El 100’,” Revision 7
APP-1232-ER-115 “Non-Class 1E Conduit Arrangement El 100’,” Revision 2
APP-1232-ER-001 “Class 1E Cable Tray Arrangement El 100’,” Revision 16
APP-1232-ER-003 “Non-Class 1E Cable Tray Arrangement El 100’,” Revision 4

Condition Reports
50074284 “Extent of Condition- Electrical Separation in Room 12312,” Dated 1/12/2021
50073246 “IEEE-384 Separation Issues,” Dated 12/31/2020

Miscellaneous
SV3-ECS-EW-EPRCPES1CYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1DYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1GYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1HYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EWW-1061262, U3 AUX - TURBINE TERMINATE ECS-3 CABLES IN SV3-ECS-EV-61, SV3-ECS-ES-63, AND ASSOCIATED EQP, Revision 0
SV3-ECS-EWW-1061345, U3 AUX/TURB. TERMINATE ECS-3 CABLES IN SV3-ECSES-41, SV3-ECS-ES-43, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELE. 82'6", Revision 0
SV3-ECS-EW-ES32LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES42LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES52LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES62LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EWW-1061433, U3 AUX/TURB TERMINATE ECS-3 CABLES IN SV3-ECSES-31, SV3-ECS-ES-32, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELEV 82'6", Revision 0
SV3-SES-EW-EE12311P01AXN[PT], Cable Pull Ticket - 600V 2/C-8 AWG W/GROUND, Revision 0
SV3-SES-EWW-1085072, ATTACHMENT A-1 Installation Record Continuation Sheet for cable SV3-SES-EW-EE12311P01AXN, Dated 10/7/2020
SV3-WLS-EW-01601KZN[PT], Cable Pull Ticket - RS 485 NEXANS 10213524 2 PAIR CABLE ASSEMBLED AS A QUAD, Revision 5
SV3-WLS-EWW-1034955, SV3 AUX TERMINATE WLS-1 CABLES AT SV3-WLS-JDMISX01 AND ASSOCIATED EQP (EXCEPTION), Revision 0

Room 12304 (Division B I&C Penetration Room)
Condition Reports
CR 50123503, Roxtec Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 01/28/22
CR 50126996, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment IDS, Dated 02/22/22
CR 50126997, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 02/22/22
CR 50072768, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 12/22/20
CR 50072794, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 1/21/21
CR 50075417, IEEE 384 violations, Room 12304, Dated 12/22/20
CR 50121533, FE Identified conduit separation violations with SV3-1231-ER-NYC08 in Room 12304, Dated 1/13/22
CR 50123504, Roxtec Frame Type EMC Transit Incorrect Installation - Room 12304, Safety Related Equipment, IDS, Dated 1/28/22
CR 50123953, IEEE 384 violations, Room 12304, Dated 2/1/22
CR 50123998, Field Walkdowns for Room Unit 3 12304, Associated Circuit, Dated 2/1/22
CR 50127416, Roxtec Rectangular Frame Type Assemblies – Deficient Correction/Re-Installation, Room 12304 and 20308, Dated 2/24/22

CR 50127571, Mystery Pull Box (Design Documentation Not Found), and IEEE-384 Violation Between Respective Box and Free Air Cables from Tray SV3-1231-ER-BXT01HB(HA) - Room 12304, Dated 2/25/22
CR 50127649, Roxtec Single Gland/Round Frame Type Assemblies – Sealing Gasket Used on Internal Side of Cabinet, Impeding EMC Gland from Grounding - Room 12304, Dated 2/25/22
CR 50144333, NRC Identified IEEE 384 Issue in Unit 3 Room 12304, Dated 6/22/2022
CR 50144418, NRC-identified cables not properly secured in Roxtec glands in Unit 3 Room 12304, Dated 6/23/2022
CR 50144475, NRC-Identified Green Non-Cited-Violation of Cable Separation in Unit 3 Room 12304, Dated 6/23/2022

Drawings
APP-1231-ER-001, Auxiliary Building Area 1 Class 1E Cable Tray Arrangement Plan at Elevation 100’-0”, Revision 13
APP-1231-ER-105, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Room 12304 (Partial), Revision 8
APP-1231-ER-106, Auxiliary Building Area 1 Class 1E Conduit Arrangement Plan at Elevation 100’-0” Room 12304 & 12300 (Partial), Revision 9
APP-1231-ER-110, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Sections and Details, Revision 4

Work Packages
SV3-1230-ERW-1114086, - U3 - AUX - Install-Label 1E Conduits and Pull Boxes - ELEV. 100' 0" — Rooms 12304, 12305 & 12313 — Areas 1 and 2, Revision 1
SV3-IDSB-EYW-1029970, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P3IY-ORC - ROOM 12304, Revision 2
SV3-IDSB-EYW-1031907, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P30Z-ORC, EL. 100'-0" ROOM 12304, Revision 2
SV3-PMS-JDW-1023214, U3 AUX - Install and Label Electrical Equipment (PMS-JDMTCB01, BCCB01, NICB01, BCCB01) Elev. 100' 0"-Room 12304 -Area 1, Revision 0
SV3-PXS-EWW-1045340, SV3 CT / AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-IDSA-DD-1, SV3-IDSB-DD-1, SV3-PMS-JDILCA01, SV3-PMS-JD-ILCB01 AND SV3-PXS-PL-V015A & SV3-PXS-PL-V015B, ROOMS 12301, 12304, 12412 AND 11206 & 11207 (PXS-1E & PMS-1 CABLES), Revision 1
SV3-SFS-EWW-1038944, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V075 VENDOR PIGTAIL CABLES AND SV3-PMS-JD- LCB02, ROOMS 11300 AND 12304 (SFS-1), Revision 0
SV3-SFS-EWW-1038947, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V033 VENDOR PIGTAIL CABLES AND SV3-PMS-JD-ILCB02, ROOMS 11206 AND 12304 (SFS-1), Revision 0

Quality Control Inspection Records
SV3-PMS-EWW-1061671, Cable: SV3-PMS-EW-JDMTCB011ZB, Dated 10/5/2020
SV3-IDSB-EWW-1052603, Cables: SV3-PMS-EW-JDBCCB0101AXB, SV3-PMS-EW-JDBCCB0201AXB, SV3-PMS-EW-JDMTCB0101AXB, and SV3-PSS-EW-PLV008BXB, Dated 5/10/2022
SV3-PMS-EWW-1058569 – Cable: SV3-RCS-EW-100202AZB, Dated 6/30/2020

Room 12305 (Division D I&C Penetration Room)

Condition Reports

CR 50066182, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 10/17/2020
CR 50102027, In-process rework of 1E and Non-1E Raceway in 12305, Dated 7/31/2021
CR-50111301, Cables in Room 12305 require re-work, Dated 10/19/2021
CR 50115613, Location tolerance violation on conduits SV3-1231-ER-DYC07, SV3-1231-ER-DYC09, SV3-1231-ER-DYC10, SV3-1231-ER-DYC14 in Room 12305, Dated 11/20/2021
CR 50145108, NRC-identified cable separation nonconformances in Unit 3 Room 12305, Dated 6/28/2022
CR 50145447, NRC identified additional examples of cable separation Non-Cited Violation, Dated 6/30/2022

Technical Evaluations

TE 60024364, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 4/22/2021
TE 60032007, Cables in Room 12305 require re-work, Dated 11/6/2021

Drawings

APP-CVS-E5-PLV09002, COMBINED WIRING DIAGRAM APP-CVS-PL-V090 MAKEUP LINE CONT ISOLATION VALVE – ORC SH 2 OF4, Revision 4
APP-SGS-E5-PLV036A01, COMBINED WIRING DIAGRAM APP-SGS-PL-V036A SG 1 STEAM LINE COND DRAIN ISOL VALVE, Revision 2
APP-VWS-E5-PLV5102, APP-VWS -PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 2 OF 2, Revision 1
APP-VWS-E5-PLV5101, COMBINED WIRING DIAGRAM APP-VWS-PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 1 OF 2, Revision 2
APP-SGS-M6-001, PIPING AND INSTRUMENTATION DIAGRAM STEAM GENERATOR SYSTEM, Revision 1
APP-VWS-M6-003, PIPING AND INSTRUMENTATION DIAGRAM CENTRAL CHILLED WATER SYSTEM, Revision 8
APP-CVS-M6-005, PIPING AND INSTRUMENTATION DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM, Revision 14
APP-CVS-E5-PLV09102, COMBINED WIRING DIAGRAM APP-CVS-PL-V091 MAKEUP LINE CONT ISOLATION VALVE – IRC SH 2 OF 4, Revision 3

Work Packages

SV3-12305-EOW-1162041, Attachment A - Cable Installation Inspection Record, Dated 6/29/2022
SV3-1231-DKW-1019987, U3 - AUX - INSTALL SV3-IDSD-DK-1, Div D 250 VDC MCC, EL 100'-0" - ROOM 12305 - AREA 1, Revision 0
SV3-CVS-EWW-1044632, U3 AUX PULL CVS-1 CABLE FROM SV3-IDSD-DD-1 AND ASSOCIATED EQP, Revision 0
SV3-IDSD-DDW-1021447, U3 -AUX INSTALL AND LABEL ELECTRICAL EQUIPMENT SV3-IDSD-DD-1, ELEV. 100'-0", AREA 1, ROOM 12305, Revision 0
SV3-P15Y-EWW-1037099, U3 AUX - TERMINATE CABLES AT EPA SV3-IDSD-EY-P15Y-ORC - ALL MODULES - ROOM 12305, Revision 0
SV3-P16Y-EWW-1035085, U3 AUX - MATERIAL TRACKING PACKAGE FOR SV3-IDSD-EY-P16Y-ORC TERMINATIONS - ROOM 12305, Revision 0

SV3-PMS-EWW-1052712, U3 AUX - BULK CABLE PULL (ORC-1259) TO EPA P14Z - EL 100'-0" - AREA 1 - ROOM 12305/12301, Revision 0
SV3-PMS-EWW-1057507, U3 AUX TERMINATE PMS-1 CABLES IN SV3-IDSD-DD-1, SV3-IDSD-DK-1, AND ASSOCIATED EQP, Revision 2

Miscellaneous
SV3-SGS-EW-PLV036AHYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-VWS-EW-PLV086HYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-CVS-EW-PLV090KZD[PT], Cable Pull Ticket - 600V 12/C-14 AWG W/OVERALL SHIELD, Revision 0
SV3-MSS-EW-PLV002NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 4
SV3-RCS-EW-PLV002BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-RCS-EW-PLV012BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-MSS-EW-PLV005NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 3

Section 1A14
Principal Closure Documents/ITAAC Technical Reports
Unit 3 Cable Separation Report for the Enclosed Raceways or Barriers for Wiring in the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0
Unit 3 Cable Separation Report for the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0

Rooms 12251 (Demineralizer/Filter Access Area), 12256 (Containment Isolation Valve Room), 12354 (Mid Annulus Access Room), and Room 12365 (Waste Monitor Tank Room B)
Condition Reports
CR 50123792 – Room 12251 issues, Dated 1/31/2022
CR 50113807 – Electrical Punchlist Items South Aux Elevation 82’-6” Room 12251, Dated 11/6/2021
CR 70001835 – Room 12251 – APP-RLS-EA-001 Primary Power Cables Terminated in Wrong Area of Panel Creating Increased Arc Potential Safety Hazard, Dated 4/27/2022
CR 50142658 - I&C/U3/12251/VAS/X2MWISLE – as built dimensions do not match latest design, Dated 6/9/2022
CR 50113626 – Punch list room 12256 – FE Identified, Dated 11/5/2021
CR 50113894 – Design Routed Conduit Non-conformances – South Aux. El. 82’-6” (Rooms 12254 – 12256), Dated 11/8/2021
CR 50113987 – Electrical Punchlist Items South Aux Elevation 82’-6” Room 12256, Dated 11/8/2021
CR 50138355 – ITAAC Review of Unit 3, Room 12256 (SR), Dated 5/7/2022
CR 50129973 – RM 12354 ITAAC IEEE 384 Walkdown Safety-Related Installation Non-conformance, Dated 3/14/2022
CR 50073050 – IEEE 384, Sep Violation, Unit 3, Room 12354, Above Doorway to Room 12354, Dated 12/28/2020
CR 50108634 – In process rework of 1E and Non-1E Raceway in 12354, Dated 9/27/2021
CR 50130050 – RM 12365 ITAAC IEEE 3384 Walkdown Safety-Related Installation Non-conformance, Dated 3/15/2022
CR 50073056 – IEEE 384, Sep Violation, Unit 3, Room 12365, Dated 12/28/2020
CR 70001423 – Install Scheduled Field routed conduit in “Waste Monitor Tank Room 8” (12365), Dated 10/16/2021

Drawings
APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100’-0”, Revision 6
APP-1234-ER-101, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 100’-0”, Revision 11
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100’-0”, Revision 8
APP-CA20-ER-419, Auxiliary Building Area 6 CA20 Module Conduit Arrangement Plan at Elevation 100’-0”, Revision 8

Section 1A15
ITAAC Documents
SV3-1200-ITR-MCRRSR, ITAAC Technical Report Unit 3 Cable Separation Report for the Main Control Room and Remote Shutdown Room (non-hazard areas), Revision 0
3.3.00.07d.i-U3-CP-Rev0/ND-20-1202, Southern Nuclear Operating Company Vogtle Electric Generating Plant Unit 3 ITAAC Closure Notification on Completion of ITAAC 3.3.00.07d.i [Index 799], Revision 0
SV3-CSR-ITR-800807, ITAAC Technical Report Unit 3 Cable Separation Report for Analyses: ITAAC 3.3.00.07d.iv.b (NRC Index #807), Revision 0
SV3-CSR-ITR-800810, ITAAC Technical Report Unit 3 Cable Separation Report for Associated Circuits: ITAAC 3.3.00.07d.v.b (NRC Index #810), Revision 0

Drawings
APP-1232-ER-101, Revision15, Auxiliary Building Area 2 Class 1E Conduit Arrangement Plan at Elevation 100’-0”
APP-1232-ER-103, Revision6, Auxiliary Building Area 2 Class 1E Conduit Arrangement Plan at Elevation 100’-0” Room 12303 & 12300 (Partial)
APP-1232-ER-116, Revision3, Auxiliary Building Area 2 Conduit Arrangement Plan at Elevation 100’-0” Sections & Details (Sheet 2)

Work Packages
SV3-1232-ELW-800000/ND-CS-VNP-007-F01, U3 AUX – INSTALL SCHEDULED LIGHTING FIXTURES, DIMMER SWITCHES, RECEPTACLES, AND UNSCHEDULED RECEPTACLE CONDUIT, ROOM 12303, EL 100’-0”, AREA 2, Revision 0
SV3-1232-ERW-800007,U3 AUX, INSTALL 1E CABLE TRAYS, ROOM 12303, AREA 2, ELEVATION 100’-0”, Revision 0
SV3-1232-ERW-1031841,U3 AUX – INSTALL SCHEDULED LIGHTING CONDUIT – EL 100’-0”, AREA 2, ROOM 12303, Revision 0
SV3-1232-SHW-800012, U3 FABRICATE AND INSTALL CABLE TRAY SUPPORTS AUX ELEVATION 100’-0”, AREA 2, ROOM 12303, Revision 0
SV3-1232-SHW-800025, - U3 INSTALL CONDUIT SUPPORTS AUX BLDG, AREA 2, ELEV 100’-0”, ROOM 12303, Revision 0
SV3-1232-SHW-800027, U3 INSTALL CONDUIT SUPPORTS AUX BLDG, AREA 2, ELEV 100’-0”, ROOM 12303, Revision 0
SV3-1232-SHW-800095, U3 FABRICATE CONDUIT SUPPORTS AUX BLDG, AREA 2, ELEV. 100’-0”, AREA 2, ROOM 12303, Revision 0
SV3-1232-SHW-800102, U3 AUX BLDG, FAB & INSTALL UNSCHEDULED LIGHTING SUPPORTS, ROOM 12303, EL 100’-0”, AREA 2, Revision 0
SV3-PMS-EWW-1085195 – U3 AUX BULK CABLE TERMINATION FROM EPA SV3-IDSC-EY-P27Z-ORC TO SV3-PMS-JD-QDPC01 & SV3-PMS-JD-NICC01, ROOM 12303, EL 100’-0”, Revision 0

SV3-SES-EEW-1058617 – U3 AUX – INSTALL PORTAL ACCESS CONTROLLER SES-EE-12303P01 IN Auxiliary Building, EL 100'-0", Room 12303, Area 2, Revision 0
SV3-FPS-EWW-1098267, U3 Aux to CT Sys FPS -1, Terminate Cables / Test Thru EPA / Install Vendor Supplied Pigtail and Unscheduled Raceway Related to SV3-FPS-JFC1212, C1213, C1222, C1223, C1232, C1233, C1241, C1252 and Associated Equipment, Revision 3
SV3-PMS-EWW-1132290, MCR IEEE Findings and Resolutions QCIRs, Dated February 2021
SV3-1242-ELW-1 042889, U3 AUX BLDG, Install Unscheduled Lighting Cables for Fixtures, Receptacles, ETC., Room 12400 (Control Room Air Lock), EL 117' 6", Area 2, Revision 0
SV3-EFS-EWW-1118442, U3 - Pull / Term Associated Sound Powered Phone Cable in All Building, All Elevations, All Areas [EFS 4], Revision 1
SV3-OCS-EWW-1052347, U3 Bulk Pull OCS-1 Cables (ORC-1115, 1116, 1117, 1118, & 1765) From SV#-OCS-JW-001 and Associated EQP Area 1-1, Revision 0
SV3-1242-ERW-1034028, U3-Aux-Install Cable Tray (Below Raised Floor) (Lines I-K) – Elevation 117'6 – Room 12401-Area 2, Revision 0
SV3-1242-ERW-1032884, 3-Aux-Install (1E) Conduit (Below Raised Floor) Elevation 117'6" – Room 12401 – Area 2, Revision 0
SV3-1242-ERW-1020343, U3 Install and Label Class 1E and Pull Boxes Above Raised Floor Elevation 117'6", Auxiliary Building, Area 2, Room 12401, Revision 0
SV3-1242-ERW-1122213, U3 – Aux – Install Cable Tray Covers & Associated Hardware 117'6" – Area 2 Rooms 12401 12411 and 12412, Revision 0

Engineering & Design Coordination Reports
APP-ECS-GEF-850899, Incorporate Detail 7 into ECS-E9-159 (ESR 50075583), Revision 0
APP-ECS-GEF-850904, Raceway and Cable separation details (ESR 50075583), Revision 0

Quality Control Inspection Reports
SV3-1232-ELW-800000-1 – Electrical Equipment Installation Inspection Record – 8/17/21
SV3-1232-ELW-800000-2 – Electrical Equipment Installation Inspection Record – 3/16/22
SV3-1232-ELW-800000-3 – Electrical Equipment Installation Inspection Record – 4/6/22
SV3-1232-ELW-800000-4 – Attachment B-1 Post-Installed Expansion Anchors Inspection Record – 3/17/22
SV3-1232-ERW-800008, Raceway and Accessories Inspection Record: Conduit SV3-1232-ER-BZC13, Dated 9/18/2021
SV3-1232-ERW-800008, Raceway and Accessories Inspection Record: 1E Conduit, Dated 2/7/2022

Condition Reports
CR 50073448, IEEE384, Missing Separation Inspections, Unit 3, Room 12303, Dated 1/4/2021
CR 50114772, Electrical Punchlist Items North Aux Elevation 100'-0" Room 12303, Dated 11/14/2021
CR 50126086, De-term/re-work SV3-SES-EW-EE12303P01AXN / NXC205, Dated 2/16/2022
CR 50113560, Raceway Coating needed on cable tray, Dated 11/4/2021
CR 50134952, ITAAC Review of Unit 3, Room 12401, Operator's Work Room, Top of Mezzanine, Dated 4/13/2022
CR 50135244, ITAAC Review of Unit 3, Room 12401, Break Room (With the Associated Top of Mezzanine; Shift Manager's Office, Dated 4/15/2022CR 50135314, ITAAC Review of Unit 3, Room 12401, Dated 4/15/2022
CR 50135396, ITAAC Review of Unit 3, Room 12401, Dated 4/16/2022

Miscellaneous
SV3-FPS-EW-JFC1241FZN[PT], Cable Pull Ticket- 600V 2-TWPR W/OVERALL SHIELD 16 AWG (Z), Revision 1
SV3-FPS-EW-JFC1241GZN[PT], Cable Pull Ticket- 600V 2-TWPR W/OVERALL SHIELD 16 AWG (Z), Revision 1
Unit 3 Work-To-Go Status Report, Dated 5/9/2022
3-EFS-ITR-800486, Attachment 3 and 5: 3-EFS-ITPP-501, Communications System (EFS) Preoperational Test, Version 1

Section 1A16
Room 11401 (S/G West Cubicle El 116' to 135')
Work Packages
SV3-1140-EJW-1004439 "Install Conduit Supports," Dated 2/15/2022
SV3-SMS-EJW-1055170 "Install SMS Junction Boxes and Supports," Dated 10/6/2020

Quality Control Inspection Records
Raceway Inspection Record ERW-1021055 (Conduit CZC03), Dated 3/12/2022
Raceway Inspection Record ERW-1021055 (Conduit DZC07), Dated 3/15/2022
Raceway Inspection Record ERW-1021055 (Conduit AXC01), Dated 3/15/2022
Junction Box Inspection Record EJW-1004438 (EJ-PLV014A), Dated 4/11/2022
Raceway Junction Box Inspection Record EJW-1004438 (EJ-PLV004A), Dated 4/9/2022

Drawings
APP-1140-ER-101 "Conduit Layout SG West El 116'0" - 135'3"," Revision 7
APP-1140-ER-801 "Conduit Layout Sections West," Revision 4
APP-1140-ER-802 "Conduit Layout Sections West," Revision 5

Condition Reports
50102657 "Extent of Condition Walkdown," Dated 8/5/2021
50113484 "Conduit Nonconformances," Dated 11/4/2021

Room 11501 (S/G West Cubicle El 135' to 153')
Work Packages
SV3-1151-SHW-1003610 "Install Conduit Supports," Dated 5/27/2021

Quality Control Inspection Records
Raceway Inspection Record 1003610 "Room 11501 Conduit," Dated 5/21/2021

Drawings
APP-1150-ER-103 "Conduit Layout SG West El 135'3" - 153'0"," Revision 0
APP-1150-ER-805 "Conduit Layout Sections West," Revision 0
APP-1150-ER-806 "Conduit Layout Sections West," Revision 0

Condition Reports
50091577 "Extent of Condition Walkdown," Dated 5/7/2021
50113713 "Design Routed Conduit Nonconformances," Dated 11/5/2021

Room 11402 (S/G East Cubicle El 116' to 135")
Work Packages
SV3-1140-SHW-1113873 "Fabricate and Install Electrical Supports," Dated 2/7/2022
SV3-1140-SHW-1153897 "Fabricate and Install Conduit Supports," Dated 4/6/2022

Quality Control Inspection Records
Raceway Junction Box Inspection Record RCS-EJ-PLV004B-3 and PLV004D-3, Dated 4/8/2022
+
Drawings
SV3-1140-ER-102 “Conduit Layout SG East El 116’0” - 135’3”,” Revision 8
SV3-1140-ER-803 “Conduit Sections,” Revision 7
SV3-1140-ER-804 “Conduit Sections,” Revision 4

Condition Reports
50092176 “Extent of Condition Summary Room 11402,” Dated 5/12/2021

Room 11502 (S/G East Cubicle El 135’ to 153’)
Work Packages
SV3-1154-SHW-1114280 “Fabricate and Install Conduit Supports - Room 11502,” Dated 3/7/2021

Quality Control Inspection Records
Raceway and Accessories Inspection Record SV3-1151-ERW-1051088 “install and Label 1E Conduit - Room 11502,” Dated 4/9/2022

Drawings
SV3-1150-ER-102 “Conduit Layout SG East El 135’3” - 153’0”,” Revision 1
SV3-1150-ER-803 “Conduit Sections,” Revision 1
SV3-1150-ER-804 “Conduit Sections,” Revision 0

Condition Reports
50103063 “Extent of Condition Summary Room 11502,” Dated 8/9/2021

Room 11703 (Upper ADS Valve Area 176'-10 1/2")
Drawings
SV3-1152-ER-804, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4
SV3-1152-ER-806, Conduit Layout Sections Containment Building Area 2 EL 135'-3" - Top Class 1E Conduits, Revision 4
SV3-1152-ER-103, Conduit Layout Containment Building Area 2 EL 176'-9" - Top Class 1E Conduits, Revision 4

Quality Control Inspection Records
SV3-RCS-EWW-1037281, Raceway and Accessories Inspection Record: SV3-1143-ER-AXC09, Dated 3/16/2022
SV3-1152-ERW-1018673, Raceway and Accessories Inspection Record: SV3-1152-ER-AXC22, SV3-1152-ER-AYC12, SV3-1152-ER-AZC17, Dated 4/23/2022
SV3-1152-ERW-1016529, Raceway and Accessories Inspection Record: SV3-1143-ER-AZC26, Dated 4/25/2022
SV3-RCS-EWW-1053793, Cable Installation Inspection Record: SV3-RCS-EW-PLV004CXZC and SV3-PXS-EW-PLV125BVZC, Dated 1/20/2022

Work Packages
SV3-PXS-EWW-1045264, U3 CT/AUX TEST CABLES THRU EPA, INSTALL VENDOR PIGTAILS & TERM SYS PXS-1E CABLES IN SV3-PXS-EJPLV101-1 AND ASSOCIATED EQP, Revision 0
SV3-RCS-EVVW-1037303, SV3 CT TERMINATE SYS RCS -1E CABLES IN SV3-RCSEJ-PLV002A, SV3-RCS-EJ-PLV012A, SV3-RCS-EJPLV013A AND ASSOCIATED EQP, Revision 0SV3-1152-ERW-1115264, U3 CT - INSTALL 1 E CONDUIT IN CONTAINMENT BUILDING, EL. 166'-0" - 176' 9", AREA 2, Revision 0

Miscellaneous
11703 Additional WTG Status, Dated 5/3/2022

Condition Reports
CR 50135161, ITAAC Review of Unit 3, Room 11703, Dated 4/15/2022
CR 50135202, ITAAC Review of Unit 3, Room 11703 (NSR), Dated 4/15/2022

Room 11301 (Steam Generator 1 Lower Manway Area)
SV3-RCS-EW-PLV004AVZN[PT], Cable Pull Ticket - 600V VENDOR SUPPLIED PIGTAIL FOR SQUIB VALVE INITIATOR, Revision 3
SV3-RCS-EWW-1042759, U3 CT/AUX TEST CABLES THRU EPA, INSTALL VENDOR PIGTAILS & TERM SYS RCS-1E CABLES IN SV3-RCS-EJPLV004A-1 THRU SV3-RCS-EJ-PLV004A-4, AND ASSOCIATED EQP, Revision 0

Room 11304 (Steam Generator 1 Access Room)
SV3-1130-ERW-1007165, Attachment B - Raceway and Accessories Inspection Record - SV3-1132·ER-NZC05, Dated 5/3/2022
SV3-CVS-EW-PLV081KZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 0
SV3-CVS-EW-PLV081LZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 0
SV3-CVS-EVVW-1 046090, U3 CT/AUX TEST CABLES THRU EPA, INSTALL VENDOR PIGTAILS & TERM SYS CVS-1E CABLES IN SV3-CVS-EJPLV081 AND ASSOCIATED EQP, Revision 0

Section 1A17
Rooms 12422 and 12423 (Reactor Switchgear Rooms 1&2)
Drawings
APP-1243-ER-101, Auxiliary Building Area 3 Non-Class 1E Conduit “X” Arrangement Plan at Elevation 117’-6”, Revision 13
APP-1243-ER-102, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 1), Revision 6
APP-1243-ER-103, Auxiliary Building Area 3 Class 1E Conduit Arrangement Plan at Elevation 117’-6”, Revision 4
APP-1243-ER-104, Auxiliary Building Area 3 Non-Class 1E Conduit “Y” Arrangement Plan at Elevation 117’-6”, Revision 9
APP-1243-ER-105, Auxiliary Building Area 3 Non-Class 1E Conduit “Z” Arrangement Plan at Elevation 117’-6”, Revision 8
APP-1243-ER-106, Auxiliary Building Area 3 Non-Class 1E Conduit Plant at Elevation 117’-6” Sections & Details (Sheet 2), Revision 2

Work Packages
SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0

SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0

SV3-PMS-EWW-1055400, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCC01, SV3-PMS-JD-BCCCO2, AND ASSOCIATED EQP, Revision 0
SV3-P MS-EWW-1055459, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDMTCD01, SV3-PMS-JD-BCCD02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1055538, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JDBCCB01, SV3-PMS-JD-ILCB01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCC0l, SV3-PMS-JD-NICC01, and Associated EQP, Revision 0
SV3-PMS-EWW-1056637, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA0l, SV3-PMS-JD-BCCA02, and ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1059950, U3 AUX TERMINATE PMS-1 CABLES IN SV3-PMS-JD-BCCA01, SV3-PMS-JD-BCCA02, AND ASSOCIATED EQP, Revision 0
SV3-PMS-EWW-1131483, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘A’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUES, Revision 0
SV3-PMS-EWW-1131485, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘C’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-PMS-EWW-1143044, U3 AUX DE-TERM REWORK RE-TERM DIVISION ‘B’ CABLES ASSOCIATED WITH PMS EQP TO MITIGATE IEEE SEGREGATION SEPARATION ISSUE, Revision 0
SV3-1243-ELW-1012728, U3 AUX BLDG, INSTALL UNSCHEDULED LIGHTING CABLES FOR FIXTURES, RECEPTACLES, ETC., ROOM 12423, EL 117' 6", AREA 3, Revision 0
SV3-VXS-EWW-1090005, U3 AUX/ANNEX SYS VXS-1, TERMINATE CABLES /INSTALL VENDOR SUPPLIED PIGTAIL AND UNSCHEDULED RACEWAY RELATED TO SV3-VXS-EJMDD084, SV3-VXS-EJ-MDD085 AND ASSOCIATED EQUIPMENT ROOMS 12423, 12321, 40503, Revision 0

Technical Evaluations
TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022
TE 60038884, IEEE 384 Violation Room 12423 1243-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB dated: 3/24/2022

Condition Reports
CR 50131622, ITAAC Review of Unit 3, Room 12422, Dated 3/23/2022
CR 50131857, SV3-12422 misc. nonconformities, Dated 3/24/2022
CR 50081423, IEEE 384 Violation, Rooms 12422 & 12423, Dated 3/4/2021
CR 50131406, IEEE 384 Violation Room 12423 12423-ER-CYC02 & 1243-ER-CXC01 to 1243-ER-NXT42AB, Dated 3/22/2022

Room 12312 (Division "C" RCP Trip Switchgear)
Work Packages
SV3-1232-ERW-1063285 "Install Conduit Room 12312," Dated 1/9/2020
SV3-1232-SHW-800073 "Install Cable Tray Supports," Dated 4/6/2018
SV3-PMS-EWW-1131485 "Rework Div "C" PMS EQP," Dated 2/10/2021

Quality Control Inspection Records
Pull Box Inspection Record ERW-1007571 (CYP02), Dated 11/23/2021
Termination Inspection Record ECS-EWW-1137092 "Terminal Jumpers per ESR 5011537," Dated 12/20/2021

Drawings
APP-1232-ER-101 "Class 1E Conduit Arrangement El 100'," Revision 15
APP-1232-ER-106 "Auxiliary Building Area 2 Class 1E Conduit Arrangement," Revision 6
APP-1232-ER-107 "Non-Class 1E Conduit Arrangement El 100'," Revision 7
APP-1232-ER-115 "Non-Class 1E Conduit Arrangement El 100'," Revision 2
APP-1232-ER-001 "Class 1E Cable Tray Arrangement El 100'," Revision 16
APP-1232-ER-003 "Non-Class 1E Cable Tray Arrangement El 100'," Revision 4

Condition Reports
50074284 "Extent of Condition- Electrical Separation in Room 12312," Dated 1/12/2021
50073246 "IEEE-384 Separation Issues," Dated 12/31/2020

Miscellaneous
SV3-ECS-EW-EPRCPES1CYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1DYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1GYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EW-EPRCPES1HYN[PT], Cable Pull Ticket - 600V 7/C-14 AWG, Revision 0
SV3-ECS-EWW-1061262, U3 AUX - TURBINE TERMINATE ECS-3 CABLES IN SV3-ECS-EV-61, SV3-ECS-ES-63, AND ASSOCIATED EQP, Revision 0
SV3-ECS-EWW-1061345, U3 AUX/TURB. TERMINATE ECS-3 CABLES IN SV3-ECSES-41, SV3-ECS-ES-43, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELE. 82'6", Revision 0

SV3-ECS-EW-ES32LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES42LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES52LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EW-ES62LYN[PT], Cable Pull Ticket - 600V 1-TWSPR 14 AWG (Y), Revision 0
SV3-ECS-EWW-1061433, U3 AUX/TURB TERMINATE ECS-3 CABLES IN SV3-ECSES-31, SV3-ECS-ES-32, AND ASSOCIATED EQP AUXILIARY AREA 2/ TURBINE AREA 3 ELEV 82'6", Revision 0
SV3-SES-EW-EE12311P01AXN[PT], Cable Pull Ticket - 600V 2/C-8 AWG W/GROUND, Revision 0

SV3-SES-EWW-1085072, ATTACHMENT A-1 Installation Record Continuation Sheet for cable SV3-SES-EW-EE12311P01AXN, Dated 10/7/2020
SV3-WLS-EW-01601KZN[PT], Cable Pull Ticket - RS 485 NEXANS 10213524 2 PAIR CABLE ASSEMBLED AS A QUAD, Revision 5
SV3-WLS-EWW-1034955, SV3 AUX TERMINATE WLS-1 CABLES AT SV3-WLS-JDMISX01 AND ASSOCIATED EQP (EXCEPTION), Revision 0

Room 12304 (Division B I&C Penetration Room)
Condition Reports
CR 50123503, Roxtec Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 01/28/22
CR 50126996, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment IDS, Dated 02/22/22
CR 50126997, Roxtec Single Gland / Round Frame Type EMC Transit Incorrect Installation – Room 12304, Safety Related Equipment, PMS, Dated 02/22/22

CR 50072768, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 12/22/20
CR 50072794, IEEE 384, Sep Violation, 12304, Above SV3-IDSB-DK-1, Dated 1/21/21
CR 50075417, IEEE 384 violations, Room 12304, Dated 12/22/20
CR 50121533, FE Identified conduit separation violations with SV3-1231-ER-NYC08 in Room 12304, Dated 1/13/22
CR 50123504, Roxtec Frame Type EMC Transit Incorrect Installation - Room 12304, Safety Related Equipment, IDS, Dated 1/28/22
CR 50123953, IEEE 384 violations, Room 12304, Dated 2/1/22
CR 50123998, Field Walkdowns for Room Unit 3 12304, Associated Circuit, Dated 2/1/22
CR 50127416, Roxtec Rectangular Frame Type Assemblies – Deficient Correction/Re-Installation, Room 12304 and 20308, Dated 2/24/22
CR 50127571, Mystery Pull Box (Design Documentation Not Found), and IEEE-384 Violation Between Respective Box and Free Air Cables from Tray SV3-1231-ER-BXT01HB(HA) - Room 12304, Dated 2/25/22
CR 50127649, Roxtec Single Gland/Round Frame Type Assemblies – Sealing Gasket Used on Internal Side of Cabinet, Impeding EMC Gland from Grounding - Room 12304, Dated 2/25/22
CR 50144333, NRC Identified IEEE 384 Issue in Unit 3 Room 12304, Dated 6/22/2022
CR 50144418, NRC-identified cables not properly secured in Roxtec glands in Unit 3 Room 12304, Dated 6/23/2022
CR 50144475, NRC-Identified Green Non-Cited-Violation of Cable Separation in Unit 3 Room 12304, Dated 6/23/2022

Drawings
APP-1231-ER-001, Auxiliary Building Area 1 Class 1E Cable Tray Arrangement Plan at Elevation 100’-0”, Revision 13
APP-1231-ER-105, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Room 12304 (Partial), Revision 8
APP-1231-ER-106, Auxiliary Building Area 1 Class 1E Conduit Arrangement Plan at Elevation 100’-0” Room 12304 & 12300 (Partial), Revision 9
APP-1231-ER-110, Auxiliary Building Area 1 Class 1E Conduit Arrangement at Elevation 100’-0” Sections and Details, Revision 4

Work Packages
SV3-1230-ERW-1114086, - U3 - AUX - Install-Label 1E Conduits and Pull Boxes - ELEV. 100' 0" — Rooms 12304, 12305 & 12313 — Areas 1 and 2, Revision 1
SV3-IDSB-EYW-1029970, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P3IY-ORC - ROOM 12304, Revision 2
SV3-IDSB-EYW-1031907, - U3 AUX - INSTALL EMC PROVISIONS & INTERNAL CABLE SUPPORT FOR EPA SV3-IDSB-EY-P30Z-ORC, EL. 100'-0" ROOM 12304, Revision 2
SV3-PMS-JDW-1023214, U3 AUX - Install and Label Electrical Equipment (PMS-JDMTCB01, BCCB01, NICB01, BCCB01) Elev. 100' 0"-Room 12304 -Area 1, Revision 0
SV3-PXS-EWW-1045340, SV3 CT / AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-IDSA-DD-1, SV3-IDSB-DD-1, SV3-PMS-JDILCA01, SV3-PMS-JD-ILCB01 AND SV3-PXS-PL-V015A & SV3-PXS-PL-V015B, ROOMS 12301, 12304, 12412 AND 11206 & 11207 (PXS-1E & PMS-1 CABLES), Revision 1
SV3-SFS-EWW-1038944, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V075 VENDOR PIGTAIL CABLES AND SV3-PMS-JD- LCB02, ROOMS 11300 AND 12304 (SFS-1), Revision 0
SV3-SFS-EWW-1038947, U3 CT/AUX TEST & TERM COMPLETE CIRCUIT BETWEEN SV3-SFS-PL-V033 VENDOR PIGTAIL CABLES AND SV3-PMS-JD-ILCB02, ROOMS 11206 AND 12304 (SFS-1), Revision 0

Quality Control Inspection Records
SV3-PMS-EWW-1061671, Cable: SV3-PMS-EW-JDMTCB011ZB, Dated 10/5/2020
SV3-IDSB-EWW-1052603, Cables: SV3-PMS-EW-JDBCCB0101AXB, SV3-PMS-EW-JDBCCB0201AXB, SV3-PMS-EW-JDMTCB0101AXB, and SV3-PSS-EW-PLV008BXB, Dated 5/10/2022
SV3-PMS-EWW-1058569 – Cable: SV3-RCS-EW-100202AZB, Dated 6/30/2020

Room 12305 (Division D I&C Penetration Room)
Condition Reports
CR 50066182, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 10/17/2020
CR 50102027, In-process rework of 1E and Non-1E Raceway in 12305, Dated 7/31/2021
CR-50111301, Cables in Room 12305 require re-work, Dated 10/19/2021
CR 50115613, Location tolerance violation on conduits SV3-1231-ER-DYC07, SV3-1231-ER-DYC09, SV3-1231-ER-DYC10, SV3-1231-ER-DYC14 in Room 12305, Dated 11/20/2021
CR 50145108, NRC-identified cable separation nonconformances in Unit 3 Room 12305, Dated 6/28/2022
CR 50145447, NRC identified additional examples of cable separation Non-Cited Violation, Dated 6/30/2022

Technical Evaluations
TE 60024364, Field engineering was notified on night shift that In room 12305 North Aux, PCI contractor was removing the sealing material away from blockout SV3-1231-ER-DZB30 and damaged 4 safety-related cables, Dated 4/22/2021
TE 60032007, Cables in Room 12305 require re-work, Dated 11/6/2021

Drawings
APP-CVS-E5-PLV09002, COMBINED WIRING DIAGRAM APP-CVS-PL-V090 MAKEUP LINE CONT ISOLATION VALVE – ORC SH 2 OF4, Revision 4

APP-SGS-E5-PLV036A01, COMBINED WIRING DIAGRAM APP-SGS-PL-V036A SG 1 STEAM LINE COND DRAIN ISOL VALVE, Revision 2
APP-VWS-E5-PLV5102, APP-VWS -PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 2 OF 2, Revision 1
APP-VWS-E5-PLV5101, COMBINED WIRING DIAGRAM APP-VWS-PLV FULL-STROKE CLASS 1E AIR OPERATED VALVE SH 1 OF 2, Revision 2
APP-SGS-M6-001, PIPING AND INSTRUMENTATION DIAGRAM STEAM GENERATOR SYSTEM, Revision 1
APP-VWS-M6-003, PIPING AND INSTRUMENTATION DIAGRAM CENTRAL CHILLED WATER SYSTEM, Revision 8
APP-CVS-M6-005, PIPING AND INSTRUMENTATION DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM, Revision 14
APP-CVS-E5-PLV09102, COMBINED WIRING DIAGRAM APP-CVS-PL-V091 MAKEUP LINE CONT ISOLATION VALVE – IRC SH 2 OF 4, Revision 3

Work Packages
SV3-12305-EOW-1162041, Attachment A - Cable Installation Inspection Record, Dated 6/29/2022
SV3-1231-DKW-1019987, U3 - AUX - INSTALL SV3-IDSD-DK-1, Div D 250 VDC MCC, EL 100'-0" - ROOM 12305 - AREA 1, Revision 0
SV3-CVS-EWW-1044632, U3 AUX PULL CVS-1 CABLE FROM SV3-IDSD-DD-1 AND ASSOCIATED EQP, Revision 0
SV3-IDSD-DDW-1021447, U3 -AUX INSTALL AND LABEL ELECTRICAL EQUIPMENT SV3-IDSD-DD-1, ELEV. 100'-0", AREA 1, ROOM 12305, Revision 0
SV3-P15Y-EWW-1037099, U3 AUX - TERMINATE CABLES AT EPA SV3-IDSD-EY-P15Y-ORC - ALL MODULES - ROOM 12305, Revision 0
SV3-P16Y-EWW-1035085, U3 AUX - MATERIAL TRACKING PACKAGE FOR SV3-IDSD-EY-P16Y-ORC TERMINATIONS - ROOM 12305, Revision 0
SV3-PMS-EWW-1052712, U3 AUX - BULK CABLE PULL (ORC-1259) TO EPA P14Z - EL 100'-0" - AREA 1 - ROOM 12305/12301, Revision 0
SV3-PMS-EWW-1057507, U3 AUX TERMINATE PMS-1 CABLES IN SV3-IDSD-DD-1, SV3-IDSD-DK-1, AND ASSOCIATED EQP, Revision 2

Miscellaneous
SV3-SGS-EW-PLV036AHYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-VWS-EW-PLV086HYD[PT], Cable Pull Ticket - 600V 4/C-12 AWG W/SHIELD, Revision 0
SV3-CVS-EW-PLV090KZD[PT], Cable Pull Ticket - 600V 12/C-14 AWG W/OVERALL SHIELD, Revision 0
SV3-MSS-EW-PLV002NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 4
SV3-RCS-EW-PLV002BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-RCS-EW-PLV012BRZN[PT], Cable Pull Ticket - 600V 1-TWSPR 16 AWG (Z), Revision 2
SV3-MSS-EW-PLV005NYN[PT], Cable Pull Ticket - 600V 2/C-14 AWG W/SHIELD, Revision 3

Section 1A18
Principal Closure Documents/ITAAC Technical Reports
Unit 3 Cable Separation Report for the Enclosed Raceways or Barriers for Wiring in the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0
Unit 3 Cable Separation Report for the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0

Rooms 12251 (Demineralizer/Filter Access Area), 12256 (Containment Isolation Valve Room), 12354 (Mid Annulus Access Room), and Room 12365 (Waste Monitor Tank Room B)

Condition Reports
CR 50123792 – Room 12251 issues, Dated 1/31/2022
CR 50113807 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12251, Dated 11/6/2021
CR 70001835 – Room 12251 – APP-RLS-EA-001 Primary Power Cables Terminated in Wrong Area of Panel Creating Increased Arc Potential Safety Hazard, Dated 4/27/2022
CR 50142658 - I&C/U3/12251/VAS/X2MWISLE – as built dimensions do not match latest design, Dated 6/9/2022
CR 50113626 – Punch list room 12256 – FE Identified, Dated 11/5/2021
CR 50113894 – Design Routed Conduit Non-conformances – South Aux. El. 82'-6" (Rooms 12254 – 12256), Dated 11/8/2021
CR 50113987 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12256, Dated 11/8/2021
CR 50138355 – ITAAC Review of Unit 3, Room 12256 (SR), Dated 5/7/2022
CR 50129973 – RM 12354 ITAAC IEEE 384 Walkdown Safety-Related Installation Non-conformance, Dated 3/14/2022
CR 50073050 – IEEE 384, Sep Violation, Unit 3, Room 12354, Above Doorway to Room 12354, Dated 12/28/2020
CR 50108634 – In process rework of 1E and Non-1E Raceway in 12354, Dated 9/27/2021
CR 50130050 – RM 12365 ITAAC IEEE 3384 Walkdown Safety-Related Installation Non-conformance, Dated 3/15/2022
CR 50073056 – IEEE 384, Sep Violation, Unit 3, Room 12365, Dated 12/28/2020
CR 70001423 – Install Scheduled Field routed conduit in "Waste Monitor Tank Room 8" (12365), Dated 10/16/2021

Drawings
APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100'-0", Revision 6
APP-1234-ER-101, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 11
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8
APP-CA20-ER-419, Auxiliary Building Area 6 CA20 Module Conduit Arrangement Plan at Elevation 100'-0", Revision 8

Section 1A19
Principal Closure Documents/ITAAC Technical Reports
Unit 3 Cable Separation Report for the Enclosed Raceways or Barriers for Wiring in the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-CSR-ITR-800805, Revision 0
Unit 3 Cable Separation Report for the Radiologically Controlled Area of the Auxiliary Building, ITAAC Technical Report SV3-1200-ITR-AUXRD, Revision 0

Rooms 12251 (Demineralizer/Filter Access Area), 12256 (Containment Isolation Valve Room), 12354 (Mid Annulus Access Room), and Room 12365 (Waste Monitor Tank Room B)
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CR 50123792 – Room 12251 issues, Dated 1/31/2022
CR 50113807 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12251, Dated 11/6/2021
CR 70001835 – Room 12251 – APP-RLS-EA-001 Primary Power Cables Terminated in Wrong

Area of Panel Creating Increased Arc Potential Safety Hazard, Dated 4/27/2022
CR 50142658 - I&C/U3/12251/VAS/X2MWISLE – as built dimensions do not match latest design, Dated 6/9/2022
CR 50113626 – Punch list room 12256 – FE Identified, Dated 11/5/2021
CR 50113894 – Design Routed Conduit Non-conformances – South Aux. El. 82'-6" (Rooms 12254 – 12256), Dated 11/8/2021
CR 50113987 – Electrical Punchlist Items South Aux Elevation 82'-6" Room 12256, Dated 11/8/2021
CR 50138355 – ITAAC Review of Unit 3, Room 12256 (SR), Dated 5/7/2022
CR 50129973 – RM 12354 ITAAC IEEE 384 Walkdown Safety-Related Installation Non-conformance, Dated 3/14/2022

CR 50073050 – IEEE 384, Sep Violation, Unit 3, Room 12354, Above Doorway to Room 12354, Dated 12/28/2020
CR 50108634 – In process rework of 1E and Non-1E Raceway in 12354, Dated 9/27/2021
CR 50130050 – RM 12365 ITAAC IEEE 3384 Walkdown Safety-Related Installation Non-conformance, Dated 3/15/2022
CR 50073056 – IEEE 384, Sep Violation, Unit 3, Room 12365, Dated 12/28/2020
CR 70001423 – Install Scheduled Field routed conduit in "Waste Monitor Tank Room 8" (12365), Dated 10/16/2021

Drawings
APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100'-0", Revision 6
APP-1234-ER-101, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 11
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8
APP-CA20-ER-419, Auxiliary Building Area 6 CA20 Module Conduit Arrangement Plan at Elevation 100'-0", Revision 8

Section 1A20
SV3-GW-GLR-275, "Vogtle Unit 3 AP1000 As-Built Pipe Rupture Hazards Analysis (PRHA) Summary Report for the Auxiliary Building – All Levels," Revision 1
SV3-GW-GLR-276, "Vogtle Unit 3 AP1000 As-Built Pipe Rupture Hazards Analysis (PRHA) Summary Report for the Auxiliary Building – All Levels," Revision 1
APP-RCS-PLR-020, "AP1000 RCS Pressurizer Spray, Auxiliary Spray, and CVS Supply and Return Piping PIPESTRESS Analysis," Revision 2
APP-PXS-PLR-060, "AP1000 CMT 02B Supply Line Piping Stress Analysis Report," Revision 7
APP-RCS-PLC-063, "AP1000 Pressurizer Spray and Purification Piping Component Fatigue Analysis," Revision 2
APP-GW-PLC-220, "PRHA Input Sheet for APP-RCS-PLR-020," Revision 3
Section 1A21
SV4-JC01-V8-01, "AP 1000 Emergency Escape Hallway OCS Installation MCR/RSR Transfer Panel," Revision 3
SV4-1230-P3-00, "Auxiliary Building Equipment Location Plan El 100-0 Areas 1 &"2," Revision 6
SV4-OCS-J8Y-01, "AP1000 Operation and Control Centers Main Control Room / Remote Shutdown Room Control Transfer Panel Drawing Package," Revision 0
SV4-0CS-ITR-80054, "Unit 4 OCS MCR/RSR Transfer Panel Installation: ITAAC 2.5.02.08b.i," Revision 0

Section 1P01
APP-GW-GAP-42, "Engineering and Design Coordination Reports," Revision 21
APP-GW-GAP-42, "Nonconformance and Disposition Report," Revision 20
ND-AD-002, "Nuclear Development Program Corrective Action Program," Version 32.0
ND-AD-002-02, "Nonconforming Items," Version 10.0
ND-AD-002-02, "Corrective Action Program Instructions," Version 3.1

Section 1P02
CR 5012125, "ITAAC Thickness Requirements for North Wall of Refueling Cavity"
TE 6003517, "North Wall thickness U3 Refueling Cavity - CR 20121255," 3/9/2022
N&D SV3-CA01-GNR-001265, “(ESR 50123312) ITAAC Thickness Requirements for North Wall of Refueling Cavity,” Revision 0
CAR 8000695, "NRC Issue of Concern on Submitted ITAAC #761 Shield Building Structural Reconciliation"

Section 1P03
CAR 80006668, “A Total of 20 NRC Cross-cutting Aspects in Human Performance Meet the Threshold for Establishing a Cross-cutting Theme.” Form ND-AD-006-F12. Dated: January 6, 2021.
CAR 80006298, “Conditions adverse to quality associated with electrical commodity installation in Vogtle Unit 3 have resulted in two NRC-identified, preliminary construction findings and associated apparent violations.” Root Cause Determination Report. Form ND-AD-006-F04. Dated: October 21, 2021.

Section 1P04
SV3-SGS-P0W-113071, "ASME - Remove/Reinstall Pipe & Conical Plate for ISO SV3-SGS-PLW-080 & Penetration SV3-11209-ML-P08 to Support Bellows SV3-11209-ML-B08 Replacement IAW SV3-ML06-GNR-000002," Revision 0
CR 5012418, "ITAAC 2.2.01.07.i (Containment ILRT) Impacted by Replacement of SG Blowdown Line Bellows"
TE 6003693, "Perform an ITAAC Maintenance Screening per ND-RA-001-09 on for ITAAC #107 Regarding CR 50124183"
ESR 5012898, "Determine Test Methodology for SGS Piping," 3/7/2022
SV3-SGS-P0W-115883, "ASME III - Establish & Control Freeze Seal on ISO SV3-SGS-PLW-081 IAW N&D SV3-SGS-GNR-000404," Revision 0
MAINT-DMDN-127038, "Perform ASME Pressure Test of SV3-SGS-PL-L009B ('B' Steam Generator 4-Inch Blowdown Line)"
ANSI/ANS-56.8-199, "American National Standard for Containment System Leakage Testing Requirements," 08/04/1994

4. OTHER INSPECTION RESULTS

4OA7 Licensee-Identified Violations.
.01
APP-RCS-GEF-850138, “RCS PH support OLP references,” Revision 0
SV3-CA05-GNR-000181, “CA05.92 Spreader Plate Installed as Carbon Steel – Potential ITAAC 198 Impact (ESR 51036777), Revision 0
CR 50136780
CR 50140148

LIST OF ACRONYMS

ADS	Automatic Depressurization System
AOV	Air Operated Valve
ASME	American Society of Mechanical Engineers
CAP	Corrective Action Program
CCS	Component Cooling Water System
CFR	Code of Federal Regulations
COL	Combined License
CMT	Core Makeup Tank
CR	Condition Report
CROP	Construction Reactor Oversight Process
CVS	Chemical And Volume Control System
DWS	Demineralized Water Transfer and Storage System
EPA	Electrical Penetration Assembly
EQRR	Equipment Qualification Reconciliation Report
E&DCR	Engineering & Design Coordination Report
FHS	Fuel Handling and Refueling System
HVAC	Heating, Ventilation, And Air Conditioning
ICN	ITAAC Closure Notice
IDS	Class 1E dc and Uninterruptible Power Supply System
IEEE	Institute of Electrical and Electronic Engineers
ILRT	Integrated Leak Rate Test
IMC	Inspection Manual Chapter
IP	Inspection Procedures
IRWST	In-Containment Refueling Water Storage Tank
ITAAC	Inspections, Tests, Analysis, and Inspection Criteria
LIV	Licensee-Identified Violation
MCR	Main Control Room
MOV	Motor Operated Valve
NCV	Noncited Violation
N&D	Nonconformance And Disposition Report
NRC	Nuclear Regulatory Commission
NSR	Nonsafety-Related
PCD	Principal Closure Documents
PCS	Passive Containment Cooling System
PMS	Protection and Safety Monitoring System
PRHR HX	Passive Residual Heat Removal Heat Exchanger
PXS	Passive Core Cooling System
QC	Quality Control
RCS	Reactor Coolant System
RSR	Remote Shutdown Room
SFS	Spent Fuel Pool Cooling System
SGS	Steam Generator System
SNC	Southern Nuclear Company
SR	Safety-Related
SSC	Structure, System, and Component
S&W	Stone & Webster
UFSAR	Updated Final Safety Analysis Report

VEGP	Vogtle Electric Generating Plant
VFS	Containment Air Filtration System
VT	Visual Examination
VWS	Central Chilled Water System
WEC	Westinghouse Electric Company
WLS	Liquid Radwaste System

No.	ITAAC No.	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
19	2.1.02.05a.i	5.a) The seismic Category I equipment identified in Table 2.1.2-1 can withstand seismic design basis loads without loss of safety function. 7.a) The Class 1E equipment identified in Table 2.1.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.	i) Inspection will be performed to verify that the seismic Category I equipment and valves identified in Table 2.1.2-1 are located on the Nuclear Island. ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category I equipment will be performed. iii) Inspection will be performed for the existence of a report verifying that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. i) Type tests, analyses, or a combination of type tests and analyses will be performed on Class 1E equipment located in a harsh environment. ii) Inspection will be performed of the as-built Class 1E equipment and the associated wiring, cables, and terminations located in a harsh environment.	i) The seismic Category I equipment identified in Table 2.1.2-1 is located on the Nuclear Island. ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function. iii) A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. i) A report exists and concludes that the Class 1E equipment identified in Table 2.1.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. ii) A report exists and concludes that the as-built Class 1E equipment and the associated wiring, cables, and terminations identified in Table 2.1.2-1 as being qualified for a harsh environment are bounded by type tests, analyses, or a combination of type tests and analyses.

98	2.2.01.05.i	5. The seismic Category I equipment identified in Table 2.2.1-1 can withstand seismic design basis loads without loss of structural integrity and safety function. 6.a) The Class 1E equipment identified in Table 2.2.1-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. 6.d) The non-Class 1E electrical penetrations identified in Table 2.2.1-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of containment pressure boundary integrity.	i) Inspection will be performed to verify that the seismic Category I equipment and valves identified in Table 2.2.1-1 are located on the Nuclear Island. ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category I equipment will be performed. iii) Inspection will be performed for the existence of a report verifying that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. i) Type tests, analyses, or a combination of type tests and analyses will be performed on Class 1E equipment located in a harsh environment. ii) Inspection will be performed of the as-built Class 1E equipment and the associated wiring, cables, and terminations located in a harsh environment. i) Type tests, analyses, or a combination of type tests and analyses will be performed on non-Class 1E electrical penetrations located in a harsh environment. ii) Inspection will be performed of the as-built non-Class 1E electrical penetrations located in a harsh environment.	i) The seismic Category I equipment identified in Table 2.2.1-1 is located on the Nuclear Island. ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis dynamic loads without loss of structural integrity and safety function. iii) The as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. i) A report exists and concludes that the Class 1E equipment identified in Table 2.2.1-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. ii) A report exists and concludes that the as-built Class 1E equipment and the associated wiring, cables, and terminations identified in Table 2.2.1-1 as being qualified for a harsh environment are bounded by type tests, analyses, or a combination of type tests and analyses. i) A report exists and concludes that the non-Class 1E electrical penetrations identified in Table 2.2.1-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of containment pressure boundary integrity. ii) A report exists and concludes that the

				as-built non-Class 1E electrical penetrations identified in Table 2.2.1-1 as being qualified for a harsh environment are bounded by type tests, analyses, or a combination of type tests and analyses.

165	2.2.03.05a.i	5.a) The seismic Category I equipment identified in Table 2.2.3-1 can withstand seismic design basis loads without loss of safety function. 7.a) The Class 1E equipment identified in Table 2.2.3-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.	i) Inspection will be performed to verify that the seismic Category I equipment and valves identified in Table 2.2.3-1 are located on the Nuclear Island. ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category I equipment will be performed. iii) Inspection will be performed for the existence of a report verifying that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. i) Type tests, analyses, or a combination of type tests and analyses will be performed on Class 1E equipment located in a harsh environment. ii) Inspection will be performed of the as-built Class 1E equipment and the associated wiring, cables, and terminations located in a harsh environment.	i) The seismic Category I equipment identified in Table 2.2.3-1 is located on the Nuclear Island. ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis dynamic loads without loss of safety function. For the PXS containment recirculation and IRWST screens, a report exists and concludes that the screens can withstand seismic dynamic loads and also post-accident operating loads, including head loss and debris weights. iii) A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions. For the PXS containment recirculation and IRWST screens, a report exists and concludes that the as-built screens including their anchorage are bounded by the seismic loads and also post-accident operating loads, including head loss and debris weights. i) A report exists and concludes that the Class 1E equipment identified in Table 2.2.3-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. ii) A report exists and concludes that the as-built Class 1E equipment and the associated wiring, cables, and terminations identified in Table 2.2.3-1 as being qualified for a harsh environment are bounded by type tests, analyses, or a combination of type tests and analyses.

182	2.2.03.08c.iii	8.c) The PXS provides RCS makeup, boration, and safety injection during design basis events.	iii) Inspections of the routing of the following pipe lines will be conducted: – CMT inlet line, cold leg to high point – PRHR HX inlet line, hot leg to high point	iii) These lines have no downward sloping sections between the connection to the RCS and the high point of the line.

195	2.2.03.08c.x	8.c) The PXS provides RCS makeup, boration, and safety injection during design basis events.	x) Inspections will be conducted of the as-built nonsafety-related coatings or of plant records of the nonsafety-related coatings used inside containment on walls, floors, ceilings, and structural steel except in the CVS room. Inspections will be conducted of the as-built non-safety-related coatings or of plant records of the non-safety-related coatings used on components below the maximum flood level of a design basis LOCA or located above the maximum flood level and not inside cabinets or enclosures. Inspections will be conducted on caulking, tags, and signs used inside containment below the maximum flood level of a design basis LOCA or located above the maximum flood level and not inside cabinets or enclosures. Inspections will be conducted of ventilation filters and fiber-producing fire barriers used inside containment within the ZOI or below the maximum flood level of a design basis LOCA.	x) A report exists and concludes that the coatings used on these surfaces have a dry film density of ≥ 100 lb/ft3. If a coating is used that has a lower dry film density, a report must exist and conclude that the coating will not transport. A report exists and concludes that inorganic zinc coatings used on these surfaces are Safety – Service Level I or have been quantified and justified in a program for management of unqualified coatings to demonstrate the unqualified coatings are acceptable for use. A report exists and concludes that tags and signs used in these locations are made of steel or another metal with a density ≥ 100 lb/ft3. In addition, a report exists and concludes that caulking used in these locations or coatings used on these signs or tags have a dry film density of ≥ 100 lb/ft3. If a material is used that has a lower density, a report must exist and conclude that there is insufficient water flow to transport lightweight caulking, signs, or tags. A report exists and concludes that the ventilation filters and fire barriers in these locations have a density of ≥ 100 lb/ft3.

198	2.2.03.08c.xiii	8.c) The PXS provides RCS makeup, boration, and safety injection during design basis events.	xiii) Inspections will be conducted of the surfaces in the vicinity of the containment recirculation screens. The surfaces in the vicinity of the containment recirculation screens are the surfaces located above the bottom of the recirculation screens up to and including the bottom surface of the plate discussed in Table 2.2.3-4, item 8.c.vii, out at least 8 ft, 3 in perpendicular to the front and at least 7 feet perpendicular to the side of the face of the screens.	xiii) These surfaces are stainless steel.
597	2.6.03.02.i	2. The seismic Category I equipment identified in Table 2.6.3-1 can withstand seismic design basis loads without loss of safety function.	i) Inspection will be performed to verify that the seismic Category I equipment identified in Table 2.6.3-1 is located on the Nuclear Island. ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category I equipment will be performed. iii) Inspection will be performed for the existence of a report verifying that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions.	i) The seismic Category I equipment identified in Table 2.6.3-1 is located on the Nuclear Island. ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function. iii) A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions.

785	3.3.00.05b	5.b) The boundaries between rooms identified in Table 3.3-2 of the auxiliary building are designed to prevent flooding of rooms that contain safety-related equipment.	An inspection of the auxiliary building rooms will be performed.	A report exists that confirms floors and walls as identified on Table 3.3-2 have provisions to prevent flooding between rooms up to the maximum flood levels for each room defined in Table 3.3-2.
789	3.3.00.07aa	7.a) Class 1E electrical cables, communication cables associated with only one division, and raceways that route the Class 1E electrical cables and the communication cables are identified according to applicable color-coded Class 1E divisions.	Inspections of the as-built Class 1E cables and the as-built raceways that route the Class 1E cables will be conducted.	a) Class 1E electrical cables, and communication cables associated with only one division, and the raceways that route these cables inside containment are identified by the appropriate color code.
790	3.3.00.07ab	7.a) Class 1E electrical cables, communication cables associated with only one division, and raceways that route the Class 1E electrical cables and the communication cables are identified according to applicable color-coded Class 1E divisions.	Inspections of the as-built Class 1E cables and the as-built raceways that route the Class 1E cables will be conducted.	b) Class 1E electrical cables, and communication cables associated with only one division, and the raceways that route these cables in the non-radiologically controlled area of the auxiliary building are identified by the appropriate color code.
792	3.3.00.07ba	7.b) Class 1E divisional electrical cables and communication cables associated with only one division are routed in their respective divisional raceways.	Inspections of the as-built Class 1E divisional cables and the as-built raceways that route the Class 1E cables will be conducted.	a) Class 1E electrical cables and communication cables inside containment associated with only one division are routed in raceways assigned to the same division. There are no other safety division electrical cables in a raceway assigned to a different division.

793	3.3.00.07bb	7.b) Class 1E divisional electrical cables and communication cables associated with only one division are routed in their respective divisional raceways.	Inspections of the as-built Class 1E divisional cables and the as-built raceways that route the Class 1E cables will be conducted.	b) Class 1E electrical cables and communication cables in the non-radiologically controlled area of the auxiliary building associated with only one division are routed in raceways assigned to the same division. There are no other safety division electrical cables in a raceway assigned to a different division.

799	3.3.00.07d.i	7.d) Physical separation is maintained between Class 1E divisions and between Class 1E divisions and non-Class 1E cables.	Inspections of the as-built raceways that route Class 1E cables will be performed to confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: i) Within the main control room and remote shutdown room (non-hazard areas), the minimum separation for low-voltage power cables and below is defined by one of the following: 1) For configurations involving open configurations to enclosed configurations with low-voltage power cables, the minimum vertical separation is 3 inches and the minimum horizontal separation is 1 inch. 2) For configurations involving an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical separation is 1 inch if the enclosed raceway is below the open raceway. 3) For configurations involving enclosed raceways, the minimum separation is 1 inch in both horizontal and vertical directions. 4) For configurations involving open configurations, and an enclosed raceway and an open raceway, with instrumentation and control cables, the minimum separation is 1 inch in both horizontal and vertical directions.	Results of the inspection will confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: i) Within the main control room and remote shutdown room (non-hazard areas) the minimum separation for low-voltage power cables and below meets one of the following: 1) For configurations involving open configurations to enclosed configurations with low-voltage power cables, the vertical separation is 3 inches or more and the horizontal separation is 1 inch or more. 2) For configurations that involve an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical separation may be reduced to 1 inch if the enclosed raceway is below the open raceway. 3) For configurations that involve enclosed raceways, the minimum separation is 1 inch in both horizontal and vertical directions. 4) For configurations that involve open configurations, and an enclosed raceway and an open raceway, with instrumentation and control cables, the minimum separation is 1 inch in both horizontal and vertical directions.

800	3.3.00.07d.ii.a	7.d) Physical separation is maintained between Class 1E divisions and between Class 1E divisions and non-Class 1E cables.	Inspections of the as-built raceways that route Class 1E cables will be performed to confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: ii.a) Within other plant areas (hazard areas), the minimum separation is defined by one of the following: 1) The minimum vertical separation is 5 feet and the minimum horizontal separation is 3 feet. 2) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches for raceways containing only instrumentation and control and low-voltage power cables ≤2/0 AWG. This minimum vertical separation is 3 inches for the configuration with a conduit above and crossing the open tray at an angle equal to or greater than 45 degrees. 3) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches between a conduit and an open configuration for low- voltage power cables greater than 2/0 AWG but not greater than 750 kcmil. The vertical separation is 3 inches if a conduit is above and crossing an open tray at an angle equal to or greater than 45 degrees. 4) For configurations that involve exclusively limited energy content cables (instrumentation and control), the minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch. 5) For configurations involving an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical	Results of the inspection will confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: ii.a) Within other plant areas inside containment (hazard areas), the separation meets one of the following: 1) The vertical separation is 5 feet or more and the horizontal separation is 3 feet or more. 2) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches for raceways containing only instrumentation and control and low-voltage power cables ≤2/0 AWG. This minimum vertical separation may be reduced to 3 inches for the configuration with a conduit above and crossing the open tray at an angle equal to or greater than 45 degrees. 3) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches between a conduit and an open configuration for low-voltage power cables greater than 2/0 AWG but not greater than 750 kcmil. The vertical separation may be reduced to 3 inches if a conduit is above and crossing an open tray at an angle equal to or greater than 45 degrees. 4) For configurations that involve exclusively limited energy content cables (instrumentation and control), the minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch. 5) For configurations that involve an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical separation is 1 inch if the enclosed raceway

			separation is 1 inch if the enclosed raceway is below the open raceway. 6) For configuration involving enclosed raceways, the minimum separation is 1 inch in both horizontal and vertical directions. 7) The minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch for configurations with a non-safety conduit and a free air safety cable with low-voltage power cables and below.	is below the open raceway. 6) For configurations that involve enclosed raceways, the minimum vertical and horizontal separation is 1 inch. 7) The minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch for configurations with a non-safety conduit and a free air safety cable with low-voltage power cables and below.

801	3.3.00.07d.ii.b	7.d) Physical separation is maintained between Class 1E divisions and between Class 1E divisions and non-Class 1E cables.	Inspections of the as-built raceways that route Class 1E cables will be performed to confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: ii.b) Within other plant areas (limited hazard areas), the minimum separation is defined by one of the following: 1) The minimum vertical separation is 5 feet and the minimum horizontal separation is 3 feet. 2) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches for raceways containing only instrumentation and control and low-voltage power cables ≤ 2/0 AWG. This minimum vertical separation is 3 inches for the configuration with a conduit above and crossing the open tray at an angle equal to or greater than 45 degrees. 3) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches between a conduit and an open configuration for low- voltage power cables greater than 2/0 AWG but not greater than 750 kcmil. The vertical separation is 3 inches if a conduit is above and crossing an open tray at an angle equal to or greater than 45 degrees. 4) For configurations that involve exclusively limited energy content cables (instrumentation and control), the minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch. 5) For configurations involving an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical	Results of the inspection will confirm that the separation between raceways that route Class 1E cables of different divisions, and between raceways that route Class 1E cables and raceways that route non-Class 1E cables is consistent with the following: ii.b) Within other plant areas inside the non-radiologically controlled area of the auxiliary building (limited hazard areas), the separation meets one of the following: 1) The vertical separation is 5 feet or more and the horizontal separation is 3 feet or more. 2) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches for raceways containing only instrumentation and control and low-voltage power cables ≤ 2/0 AWG. This minimum vertical separation may be reduced to 3 inches for the configuration with a conduit above and crossing the open tray at an angle equal to or greater than 45 degrees. 3) The minimum vertical separation is 12 inches and the minimum horizontal separation is 6 inches between a conduit and an open configuration for low-voltage power cables greater than 2/0 AWG but not greater than 750 kcmil. The vertical separation may be reduced to 3 inches if a conduit is above and crossing an open tray at an angle equal to or greater than 45 degrees. 4) For configurations that involve exclusively limited energy content cables (instrumentation and control), the minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch. 5) For configurations that involve an enclosed raceway and an open raceway with low-voltage power cables, the minimum vertical

			separation is 1 inch if the enclosed raceway is below the open raceway. 6) For configuration involving enclosed raceways, the minimum separation is 1 inch in both horizontal and vertical directions. 7) The minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch for configurations with a non-safety conduit and a free air safety cable with low-voltage power cables and below.	separation is 1 inch if the enclosed raceway is below the open raceway. 6) For configurations that involve enclosed raceways, the minimum vertical and horizontal separation is 1 inch 7) The minimum vertical separation is 1 inch and the minimum horizontal separation is 1 inch for configurations with a non-safety conduit and a free air safety cable with low-voltage power cables and below.

819	3.3.00.08	8. Systems, structures, and components identified as essential targets are protected from the dynamic and environmental effects of postulated pipe ruptures.	Following as-built reconciliation, an inspection will be performed of the as-built high and moderate energy pipe rupture mitigation features for systems, structures, and components identified as essential targets.	An as-built Pipe Rupture Hazard Analysis Report exists and concludes that systems, structures, and components identified as essential targets can withstand the effects of postulated pipe rupture without loss of required safety function.
	3.3.00.13	13. Separation is provided between the structural elements of the turbine and annex buildings and the nuclear island structure. This separation permits horizontal motion of the buildings in the safe shutdown earthquake without impact between structural elements of the buildings.	An inspection of the separation of the nuclear island from the annex and turbine building structures will be performed. The inspection will verify the specified horizontal clearance between structural elements of the adjacent buildings, consisting of the reinforced concrete walls and slabs, structural steel columns and floor beams.	The minimum horizontal clearance above floor elevation 100′-0″ between the structural elements of the annex building and the nuclear island is 3 inches. The minimum horizontal clearance above floor elevation 100′-0″ between the structural elements of the turbine building and the nuclear island is 3 inches.