



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
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ATLANTA, GEORGIA 30303-1200

August 12, 2020

Mr. Michael Yox
Regulatory Affairs Director
Southern Nuclear Operating Company
7825 River Road, Bldg. 302, Vogtle 3&4
Waynesboro, GA 30830

**SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 - NRC
INTEGRATED INSPECTION REPORT 05200025/2020002, 05200026/2020002**

Dear Mr. Yox:

On June 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the Vogtle Electric Generating Plant (VEGP) Units 3 and 4. The enclosed inspection report documents the inspection results, which the inspectors discussed on July 20, 2020, with Mr. M. Meier, SNC Vice President of Regulatory Affairs, and other licensee and contractor staff members.

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 construction finding of very low safety significance (Green). The finding involved a violation of NRC requirements. The NRC is treating this violation as a non-cited 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.

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding." Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Nicole Coover
Branch Chief
Construction Inspection Branch 1

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

Enclosure: NRC Inspection Report (IR) 05200025/2020002, 05200026/2020002
w/attachment: Supplemental Information

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SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 - NRC
INTEGRATED INSPECTION REPORT 05200025/2020002, 05200026/2020002
DATED: AUGUST 12, 2020

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U.S. NUCLEAR REGULATORY COMMISSION
Region II

Docket Numbers: 5200025
5200026

License Numbers: NPF-91
NPF-92

Report Numbers: 05200025/2020002
05200026/2020002

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Electric Generating Plant Unit 3
Vogtle Electric Generating Plant Unit 4

Location: Waynesboro, GA

Inspection Dates: April 1, 2020 through June 30, 2020

Inspectors: A. Artayet, Senior Construction Inspector, DCO
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Approved by: Nicole Covert,
Branch Chief
CIB1

SUMMARY OF FINDINGS

Inspection Report (IR) 05200025/2020002, 05200026/2020002; 04/01/2020 through 06/30/2020; Vogtle Electric Generating Plant (VEGP) Units 3 and 4, integrated inspection report.

This report covers a three-month period of inspection by regional and resident inspectors. One construction finding of very low safety significance (Green) with an associated non-cited violation (NCV) in the Construction Installation Cornerstone 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) The inspectors identified a construction finding of very low safety significance with an associated NCV of Title 10 of the Code of Federal Regulations (10 CFR) Part 50, Appendix B, Criterion XVI, "Corrective Action," for the licensee's failure to correct a condition adverse to quality related to inadequate thread engagement for TZ Hilti Bolts identified in condition report (CR) 50004237. Specifically, CR 50004237 was written to address specification SV3/SV4-SS01-Z0-011, Revision 0, which allowed post-installed anchors to be installed so that the end of the bolt was flush with the nut. In the instance of the TZ Hilti Bolts, bolt ends are tapered and when installed flush with the bolt resulted in inadequate thread engagement. This issue was entered into the licensee's corrective action program as CR 50039089. The licensee performed immediate corrective actions and was able to demonstrate with reasonable assurance that the lack of thread engagement would not affect the anchors ability to perform their intended safety function.

The performance deficiency was of more than minor safety significance, and thus a finding, because it represented an adverse condition that rendered the quality of a structure, system, and component (SSC), unacceptable or indeterminate, and required substantive corrective action. The inspectors determined this finding was not associated with an ITAAC; it was not associated with a security program; and it was not associated with a repetitive, NRC-identified omission of a program critical attribute. The inspectors determined this finding was of very low safety significance (Green) because the licensee was able to demonstrate with reasonable assurance that the design function of the applicable structure or system would not be impaired by the deficiency. The inspectors determined the finding was indicative of present licensee performance and was associated with the cross-cutting aspect of Problem Identification and Resolution, in the area of Resolution. Specifically, the licensee failed to thoroughly evaluate the issue to ensure that the resolution addressed the extent of condition for inadequate thread engagement identified in CR 50004237. [P.2] (Section 1P01)

B. Licensee-Identified Violations

None.

REPORT DETAILS

Summary of Plant Construction Status

Unit 3: For the shield building, the licensee assembled the rebar and framework in preparation for concrete placement for the passive containment cooling water storage tank. In the containment building, the licensee continued with installation of reactor coolant system (RCS) and passive core cooling system (PXS) instrumentation, and electrical conduits and cables (safety and non-safety-related). The licensee was nearing the end of the construction of the auxiliary building structure, and continues with installation of electrical raceways, routing and termination of cables.

Unit 4: The licensee continued with shield building construction. In the containment building, the polar crane was installed, followed by the containment vessel dome. The licensee continued construction of the auxiliary building structure from elevation 135'- 3" to 180', and installation of electrical raceways and routing of cables.

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 2.2.01.02a (91) / Family 06F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.01.02a (91). The inspectors used the following NRC inspection procedure (IP)/section to perform this inspection:

- 65001.C-02.03 - Construction Test Record Review

The inspectors reviewed Stone and Webster (S&W) records associated with three hydrostatic pressure testing of the component cooling water system (CCS) and spent fuel pool cooling system (SFS) located in both the containment and auxiliary buildings. The inspectors reviewed pressure testing work package instructions SV3-CCS-THW-1047262, SV3-SFS-THW-1014088, and SV3-SFS-THW-1014286 for piping and components (valves) to verify pressure testing was performed in accordance with the requirements of the 1998 Edition, including 2000 Addenda, of the American Society of Mechanical Engineers (ASME) Code Section III, Article NC-6000 for Class 2 components. Specifically, the inspectors reviewed the work package instructions to determine whether the following test attributes were included for the piping systems:

- system boundaries were established for all applicable pressure piping and valves with weld locations and fill/vent end points for filling/draining operations;
- valve lineup positions for pressure test prerequisites and post-test restored conditions were signed-off and dated;

- 0 to 600 psi range calibrated analog pressure gauges of the required range were installed for design pressures;
- manually operated relief valves were installed with a set pressure;
- demineralized water quality "A" was used within a metal temperature range of 40-120 degree Fahrenheit (F) measured at the metal surface and above the nil-ductility temperature;
- minimum hydrostatic test pressures were not less than 1.25 times the lowest design pressure for a minimum of 10 minutes;
- examination for leakage was performed at greater than design pressures;
- hydrostatic test pressures did not exceed the maximum permissible test pressures of any component in the system boundaries; and
- examination for leakage included all uninsulated flange and weld joints, connections, and regions of high stress (such as openings, attachments, and thickness transition sections).

The inspectors reviewed S&W pressure test data sheets SV3-CCS-TH-H8002A, SV3-SFS-TH-H8001A, and SV3-SFS-TH-H8002A with supporting documents that were provided in each work packages to verify the digital thermometer and two analog test gauges for each test were calibrated; both pressure gauges were within graduated range restrictions; and all three pressure tests were deemed acceptable and witnessed by authorized nuclear inspectors (ANI) with signatures and dates. The inspectors reviewed the pressure test settings and results to determine if they conformed to the requirements of the ASME Code Section III, NC-6100, NC-6200, NC-6400, and NCA-5280.

b. Findings

No findings were identified.

1A02 (Unit 3) ITAAC Number 2.2.01.02a (91) / Family 06F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.01.02a (91). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.11-02.05 - Nondestructive Examination
- 65001.B-02.05 - Inspection

The inspectors reviewed radiographic X-ray films to verify weld number S11-D37/D35, a manway plate section, was radiographed in accordance with the requirements of the 2001 edition, including the 2002 Addenda, of the ASME Code Section III, Article NE-5000 for examination of metal containments.

The inspectors reviewed both X-ray films at the intersecting points of the upper manway plate locations of weld number S11-D37/D35 into the circumferential top head to upper ring weld seam S11/TH4, and four films at the bottom half-round portion of the manway plate.

The inspectors performed these reviews to verify the following was deemed acceptable by the certified nondestructive examination (NDE) radiographic (RT) Level II film evaluator with no relevant indications in accordance with the requirement of the ASME Code Section V, Article 2, for radiographic examinations:

- film identification and markers;
- densitometer #027945 with calibration expiration date of 8/5/2020 with densitometer calibration "Verification Log" used for this film review;
- step wedge #8716194 with calibration expiration date of 2/12/2021 used for this film review;
- required ASTM-1B-11 (0.032" dia.) source side wire image quality indicator (IQI) at three locations (left, center, and right locations of each film);
- film density between 1.8 to 4.0 in the area of interest (using above densitometer for each film);
- geometric unsharpness (Ug) = 0.0107 (less than 0.020") for material thickness less than 2"; and
- review of Chicago Bridge and Iron (CB&I) Report of Radiographic Examination - Nuclear U3-363 for manway plate weld S11-D37/D35.

The inspectors reviewed CB&I "Report of Radiographic Examination Nuclear U3-364" for the circumferential weld seam S11/TH4 between film location markers 345-356 that included film location markers 350-353 at both intersecting points of the upper manway plate locations of weld number S11-D37/D35 to verify radiography was deemed acceptable in both weld radiographic reports U3-363 and U3-364 with no relevant indications in accordance with the requirements of the ASME Code Section III, Subsection NE.

The inspectors reviewed the qualification record of the CB&I NDE-RT Level II evaluator ID-No. 728683 with evaluation signatures and dates on both radiographic examination reports for manway plate weld S11-D37/D35 and circumferential seam S11/TH4 to verify recertification for radiographic examination was in accordance with the recommended guidelines of SNT-TC-1A "Personnel Qualification and Certification in Nondestructive Testing" in accordance with the requirements of the ASME Code Section III, Article NE-5000.

b. Findings

No findings were identified.

1A03 (Unit 3) ITAAC Number 3.3.00.02a.i.a (760) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.a (760). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F.02.01 - Design Document Review

The inspectors performed a programmatic review of measures associated with reconciling design changes to determine if measures had been established to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. As part of this assessment, the inspectors reviewed the following procedures:

- APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
- APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
- APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
- APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
- APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

The inspectors reviewed the master list of changes and the assessment of the impacts of those changes to the approved design to determine if measures were being implemented to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. The inspectors also reviewed a sample of changes identified in the documents below to verify the changes were being addressed in accordance with quality procedures.

- SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
- SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A

The inspectors also reviewed the "Performance and Documentation Plan" and the "AP1000 As-Designed Summary Reports" associated with this ITAAC to verify measures were being implemented such that the structural design of the as-designed and as-built structures met the acceptance criteria specified in the Updated Final Safety Analysis Report (UFSAR) Section 3.8 and the ITAAC.

Additionally, the inspectors reviewed calculations and reports to determine if the impacts to the seismic analyses and the associated seismic design forces from detailed design changes had been identified, evaluated, and reconciled to the approved design as required by the ITAAC.

The inspectors also reviewed calculations and reports to determine if measures had been established and were being implemented to reconcile the seismic analysis described in UFSAR Subsection 3.7.2 to account for detailed design changes and deviations in accordance with UFSAR Subsection 3.7.5.4. Specifically, the inspectors performed the review to verify the methods and procedures of UFSAR Section 3.7 were being used to reconcile detailed design changes to the design basis and the evaluation considered site specific ground motion and soil properties. In total, the inspectors reviewed 11 seismic calculations and five design reports.

b. Findings

No findings were identified.

1A04 (Unit 3) ITAAC Number 3.3.00.02a.i.b (761) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.b (761). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.02-02.01 - Inspection of Concrete Placement
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F-02.01 - Design Document Review

The inspectors observed installation of the top radial, circumferential, and transverse reinforcing bars being installed in the upper half of the conical roof slab between the knuckle region and compression ring to verify the sizes, spacing, material designation, grade, lap splices, and layout of the bars were consistent with the applicable design drawings, engineering and design coordination reports (E&DCRs), construction specification SV3-CC01-Z0-31, and American Concrete Institute (ACI) 349-01.

The inspectors reviewed E&DCR APP-FSAR-GEF-157 to verify design changes made to the supplementary reinforcement installed in the concrete slab above the radial steel girders to aid in resisting concrete breakout were performed in accordance with 10 CFR Part 50 Appendix B, Criterion III, "Design Control." Specifically, the inspectors performed the review to verify the design changes were subject to control measures commensurate with those applied to the original design and were approved by the organization that performed the original design or the designated responsible organization. The inspectors also reviewed the E&DCR to verify a justification was provided for the design change, deviations from applicable quality standards such as ACI 349-01 were controlled, and the revised design was correctly translated into the updated design output documents.

b. Findings

No findings were identified.

1A05 (Unit 3) ITAAC Number 3.3.00.02a.i.b (761) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.b (761). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F-02.01 - Design Document Review

The inspectors performed a programmatic review of measures associated with reconciling design changes to determine if measures had been established to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. As part of this assessment, the inspectors reviewed the following procedures:

- APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
- APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
- APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
- APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
- APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

The inspectors reviewed the master list of changes and the assessment of the impacts of those changes to the approved design to determine if measures were being implemented to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. The inspectors also reviewed a sample of changes identified in the documents below to verify the changes were being addressed in accordance with quality procedures.

- SV0-1000-ITX-001, "Document and Debt Listing for AP1000 Nuclear Island Structures," Revision A
- SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A

The inspectors also reviewed the "Performance and Documentation Plan" and the "AP1000 As-Designed Summary Reports" associated with this ITAAC to verify measures were being implemented such that the structural design of the as-designed and as-built structures meet the acceptance criteria specified in UFSAR Section 3.8 and the ITAAC.

Additionally, the inspectors reviewed calculations and reports to determine if the impacts to the seismic analyses and the associated seismic design forces from detailed design changes had been identified, evaluated, and reconciled to the approved design as required by the ITAAC.

The inspectors also reviewed calculations and reports to determine if measures had been established and were being implemented to reconcile the seismic analysis described in UFSAR Subsection 3.7.2 to account for detailed design changes and deviations in accordance with UFSAR Subsection 3.7.5.4. Specifically, the inspectors performed the review to verify the methods and procedures of UFSAR Section 3.7 were being used to reconcile detailed design changes to the design basis and this evaluation considered site specific ground motion and soil properties. In total, the inspectors reviewed 11 seismic calculations and five design reports.

b. Findings

No findings were identified.

1A06 (Unit 3) ITAAC Number 3.3.00.02a.i.b (761) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.b (761). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.02-02.01 - Inspection of Concrete Placement
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F-02.01 - Design Document Review

The inspectors observed the reinforcing steel within the compression ring and the passive containment cooling system (PCS) tank inner wall dowels to verify installation of the bars that were accessible for observation were consistent with the applicable design drawings, E&DCRs, construction specification SV3-CC01-Z0-31, and the applicable provisions of ACI 349-01. The inspectors reviewed the material designation, grade, and general layout of the top hoop, top radial, and transverse reinforcing bars within the compression ring. The inspectors also reviewed the PCS tank inner wall dowels to verify they were developed into the compression ring.

The inspectors reviewed E&DCR APP-FSAR-GEF-166 to verify design changes made to the supplementary reinforcement installed in the concrete portion of the compression ring to aid in resisting concrete breakout were performed in accordance with 10 CFR Part 50 Appendix B, Criterion III, "Design Control." Specifically, the inspectors performed the review to verify the design changes were subject to control measures commensurate with those applied to the original design and were approved by the organization that performed the original design or the designated responsible organization. The inspectors also reviewed the E&DCR to verify a technical justification was provided for the design change, deviations from applicable quality standards such as ACI 349-01 were controlled, and the revised design was correctly translated into the updated design output documents.

The inspectors observed concrete placement in the upper section of the shield building conical roof underneath the PCS tank and the compression ring. The inspectors reviewed the placement plan to verify preplacement planning had been completed to assure quality construction and included contingency plans.

The inspectors reviewed a grout and a concrete batch plant ticket to verify the batched mixes conformed to the placement plan and were discharged in accordance with the construction specification. Additionally, the inspectors observed in-process record testing to verify concrete temperature, flow, air content, and unit weight conformed to requirements and in-process testing was completed at the correct location and frequency as required by the construction specification.

The inspectors also reviewed placement activities to verify drop distances did not exceed specification requirements; placement rates were consistent with the placement plan; and appropriate attention was given to areas of high reinforcing density to minimize the potential for voids or honeycombing.

b. Findings

No findings were identified.

1A07 (Unit 3) ITAAC Number 3.3.00.02a.i.c (762) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.c (762). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F.02.01 - Design Document Review

The inspectors performed a programmatic review of measures associated with reconciling design changes to determine if measures had been established to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. As part of this assessment, the inspectors reviewed the following procedures:

- APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
- APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
- APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
- APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
- APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

The inspectors reviewed the master list of changes and the assessment of the impacts of those changes to the approved design to determine if measures were being implemented to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC.

The inspectors also reviewed a sample of changes identified in the documents below to verify the changes were being addressed in accordance with quality procedures.

- SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
- SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A

The inspectors also reviewed the "Performance and Documentation Plan" and the "AP1000 As-Designed Summary Reports" associated with this ITAAC to verify measures were being implemented such that the structural design of the as-designed and as-built structures meet the acceptance criteria specified in UFSAR Section 3.8 and the ITAAC.

Additionally, the inspectors reviewed two calculations and three reports to determine if the impacts to the seismic analyses and the associated seismic design forces from detailed design changes had been identified, evaluated, and reconciled to the approved design as required by the ITAAC. The inspectors also reviewed calculations and reports to determine if measures had been established and were being implemented to reconcile the seismic analysis described in UFSAR Subsection 3.7.2 to account for detailed design changes and deviations in accordance with UFSAR Subsection 3.7.5.4. Specifically, the inspectors performed the review to verify the methods and procedures of UFSAR Section 3.7 were being used to reconcile detailed design changes to the design basis and this evaluation considered site specific ground motion and soil properties. In total, the inspectors reviewed 11 seismic calculations and five design reports.

The inspectors also reviewed two calculations, one design change proposal (DCP) and eight E&DCRs associated with installation of permanent formwork plates to determine if the impacts to the seismic analyses and associated seismic design forces from these detailed design changes had been identified and evaluated in accordance with APP-GW-GAP-420. The inspectors performed the review to verify these changes were identified in APP-1000-S3R-008 as impacting the seismic analyses.

b. Findings

No findings were identified.

1A08 (Unit 3) ITAAC Number 3.3.00.02a.i.d (763) / Family 01F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02a.i.d (763). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.F - Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F 02.01 - Design Document Review

The inspectors performed a programmatic review of measures associated with reconciling design changes to determine if measures had been established to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. As part of this assessment, the inspectors reviewed the following procedures:

- APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
- APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
- APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
- APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
- APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

The inspectors reviewed the master list of changes and the assessment of the impacts of those changes to the approved design to determine if measures were being implemented to identify, evaluate, and reconcile changes from the approved design as required by the ITAAC. The inspectors also reviewed a sample of changes identified in the documents below to verify the changes were being addressed in accordance with quality procedures.

- SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
- SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A

The inspectors also reviewed the "Performance and Documentation Plan" and the "AP1000 As-Designed Summary Reports" associated with this ITAAC to verify measures were being implemented such that the structural design of the as-designed and as-built structures meet the acceptance criteria specified in UFSAR Section 3.8 and the ITAAC.

Additionally, the inspectors reviewed calculations and reports to determine if the impacts to the seismic analyses and the associated seismic design forces from detailed design changes had been identified, evaluated, and reconciled to the approved design as required by the ITAAC.

The inspectors also reviewed calculations and reports to determine if measures had been established and were being implemented to reconcile the seismic analysis described in UFSAR Subsection 3.7.2 to account for detailed design changes and deviations in accordance with UFSAR Subsection 3.7.5.4. Specifically, the inspectors performed the review to verify the methods and procedures of UFSAR Section 3.7 were being used to reconcile detailed design changes to the design basis and this evaluation considered site specific ground motion and soil properties. In total, the inspectors reviewed 11 seismic calculations and five design reports.

b. Findings

No findings were identified.

1A09 (Unit 3) ITAAC Number 3.3.00.05a (784) / Family 02C

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.05a (784). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.02-02.06 - Record Review
- 65001.C-02.04 - General Quality Assurance Review

The inspectors reviewed the licensee's principal closure document (PCD) for this ITAAC, including several supporting documents associated with the nuclear island waterproofing membrane installation, to determine if the results and methods used met the ITAAC acceptance criteria. Specifically, the inspectors reviewed the PCD and a sample of work order packages, quality control inspection records and nonconformance reports to determine if quality control inspections were performed during construction to verify installation of water barrier on the nuclear island exterior walls up to site grade.

b. Findings

No findings were identified.

1A10 (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.A.02.01 - Observation of in-Process Installation Activities

The inspectors performed an inspection of raceways and cables inside containment of the Unit 3 to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations.

The inspectors reviewed the procedures used to install and inspect cable raceway installation inside of containment and reviewed the design specification to verify the color coding of raceways was consistent with UFSAR, Section 8.3.2 and the acceptance criteria of the ITAAC. Specifically, the inspectors reviewed work packages associated with the sampled cables to determine if identification and color coding of raceway and cables were addressed as defined in the specifications.

b. Findings

No findings were identified.

1A11 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204 and 12205 at elevation 82'-6"; rooms 12301, 12303, 12304 at elevation 100'-0"; rooms 12401, 12405, 12412 at elevation 117'-6"; and rooms 12501 and 12505 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, work packages and the licensee's correspondence ND-19-1270, "Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07ab [Index Number 790]". The inspectors reviewed APP-ECS-E9-040, "Electrical Raceway and Cable Identification Markers," Revision 3 and instructions provided in work packages to determine if color coding requirements in Table 3.12.3-A-1, "Background Color Coding," of SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

Specifically, the inspectors reviewed work package associated with the sampled cables to determine if:

- communication cables in the non-radiologically controlled area of the auxiliary building associated with only one division, and raceways are identified by the appropriate color;
- Identification and color coding of raceway and cable types for safety related applications as defined in specification;
- identification of raceways and cables, were consistent with UFSAR, Section 8.3.2; and
- discrepancies from installation requirements were placed in the corrective action program.

b. Findings

No findings were identified.

1A12 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications and work packages of the rooms selected for safety-related raceways and cables. The inspectors reviewed instructions provided in work packages to determine if color coding requirements in Table 3.12.3-A-1 "Background Color Coding," of SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. Specifically, the inspectors reviewed work package associated with the sampled cables to determine if:

- identification of raceway and cables were addressed;
- identification of raceways and cables were consistent with UFSAR, Section 8.3.2; and
- discrepancies from installation requirements were placed in their corrective action program.

b. Findings

No findings were identified.

1A13 (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
- 65001.A.02.01 - Observation of in-Process Installation Activities

The inspectors performed an inspection of raceways and cables inside the Unit 3 containment to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations inside containment.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed separation between Class 1E divisions and non-Class 1E raceways of the areas within containment. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways and dimensioning. The inspectors reviewed the construction documents to determine whether only one assigned Class 1E cable division was routed in raceways assigned to the same division and whether there were no other safety division electrical cables in a raceway assigned to a different division as indicated in the construction documents, and to determine if the requirements of Institute of Electrical and Electronics Engineers (IEEE) Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed the procedure used to install and inspect cables inside of containment and reviewed the design specification to verify field engineers and quality control inspectors were required to verify cables are routed following the separation requirements in accordance with UFSAR Section 8.3.2.4.2.

b. Findings

No findings were identified.

1A14 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204, and 12205 at EL. 82'-6"; rooms 12301, 12303, and 12304 at elevation 100'-0", rooms 12401, 12405 and 12412 at elevation 117'-6"; and rooms 12501 and 12505 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E divisions and non-Class 1E cables and raceways within the non-radiologically controlled areas of the auxiliary building. The inspectors reviewed cable listings to verify cables from any one division were routed in independently separate raceways. The inspectors reviewed cable installation status files (WEMMEX) to determine whether only one assigned Class 1E cable division was routed in the assigned raceway. In addition, the inspectors reviewed documents to determine whether there were cables routed in any raceway assigned to a different division and to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. The inspectors reviewed ND-18-0445, "Bldg. Aux Bldg. Non-Rad Area Class 1E Specific Division Isolation, Version 5.2" for ITAAC 3.3.00.07bb, Index number 793. The inspectors also reviewed raceway sleeve sizes and installation details to verify they conformed with dimensions and elevations shown on construction drawings and specifications.

b. Findings

No findings were identified.

1A15 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed separation between Class 1E divisions and non-Class 1E cables and raceways within the radiologically controlled areas of the auxiliary building that provide proper separation between Class 1E divisions and non-Class 1E raceways. The inspectors reviewed cable listings to verify cables from any one division are routed in independently separate raceways. The inspectors reviewed cable installation status files (WEMMEX) to determine whether only one assigned Class 1E cable division was routed in the assigned raceway. In addition, the inspectors reviewed documents to determine if there were cables routed in any raceway assigned to a different division and to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

b. Findings

No findings were identified.

1A16 (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.A.02.01 - Observation of in-Process Installation Activities

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12102, 12105, 12202, 12203, 12205, 12212, 12301, 12304, 12412, 12421.

The inspectors performed a review of a sample of electrical drawings for components whose cables are routed in the rooms listed above to verify division separation is maintained in accordance with the fire areas listed in Table 3.3-3 of Appendix C of the Combined License.

b. Findings

No findings were identified.

1A17 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in room 12244.

The inspectors performed a review of a sample of electrical drawings for components whose cables are routed in the rooms listed above to verify division separation is maintained in accordance with the fire areas listed in Table 3.3-3 of Appendix C of the Combined License.

b. Findings

No findings were identified.

1A18 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12303 at elevation 100'-0" and room 12401 at elevation 117'-6.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed separation between Class 1E divisions and non-Class 1E cables and raceways within the non-radiologically controlled areas of the auxiliary building that addressed the separation between Class 1E divisions and non-Class 1E raceways. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways and dimensioning as indicated in the construction documents for the main control and remote shutdown rooms, to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. The inspectors also reviewed raceway sleeve sizes and installation details were consistent with dimensions and elevations shown on construction drawings and specifications. In addition, the inspectors reviewed ND-18-0875, "Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.i [Index Number 799]."

b. Findings

No findings were identified.

1A19 (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
- 65001.09-02.03 - Documentation

The inspectors performed an inspection of raceways and cables inside containment in Unit 3 to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations in containment.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways. The inspectors reviewed cable installation status files (WEMMEX) to determine whether only one assigned Class 1E cable division was routed in the assigned raceway. In addition, the inspectors reviewed construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

b. Findings

No findings were identified.

1A20 (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

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204, and 12205 at elevation 82'-6"; rooms 12301, 12303, and 12304 at elevation 100'-0"; rooms 12401, 12405 and 12412 at elevation 117'-6"; and rooms 12501 and 12505 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the rooms selected for safety-related raceways and cables.

The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways and dimensioning as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. The inspectors also reviewed raceway sleeve sizes and installation details to verify they were consistent with dimensions and elevations shown on construction drawings and specifications. In addition, the inspectors reviewed ND-18-0814, "Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.ii.b [Index Number 801]."

b. Findings

No findings were identified.

1A21 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E divisions and non-Class1E cables and raceways within the radiologically controlled areas of the auxiliary building. The inspectors reviewed cable installation status files (WEMMEX) to determine whether only one assigned Class 1E cable division was routed in the assigned raceway. The inspectors reviewed raceway sizes, locations, separation from other raceways from different divisions and non-class 1E raceways, and dimensioning as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification", were met. The inspectors also reviewed raceway sleeve sizes and installation details to verify they conformed with dimensions and elevations shown on construction drawings and specifications.

b. Findings

No findings were identified.

1A22 (Unit 3) ITAAC Number 3.3.00.07d.iii.a (803) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iii.a (803). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside containment in Unit 3 to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations in containment.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed the use of barriers to provide required separation where the distancing would not allow proper spacing. The inspectors reviewed details and raceway sections to determine if the separation complied with IEEE 384.

b. Findings

No findings were identified.

1A23 (Unit 3) ITAAC Number 3.3.00.07d.iii.b (804) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iii.b (804). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204, and 12205 at elevation 82'-6"; rooms 12301, 12303, and 12304 at elevation 100'-0"; rooms 12401, 12405 and 12412 at elevation 117'-6"; and rooms 12501 and 12505 at EL. 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. In addition, the inspectors reviewed ND-18-0814, "Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.iii.b [Index Number 804]."

The inspectors reviewed and discussed the use of barriers to provide required separation where the distancing would not allow proper spacing. The inspectors reviewed details and raceway sections to determine if the separation complied with IEEE 384.

b. Findings

No findings were identified.

1A24 (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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed the use of barriers to provide required separation where the distancing would not allow proper spacing. The inspectors reviewed details and raceway sections to determine if the separation complied with IEEE 384.

b. Findings

No findings were identified.

1A25 (Unit 3) ITAAC Number 3.3.00.07d.iv.a (806) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iv.a (806). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside containment in Unit 3 to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations in containment.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, and barriers were not provided. No samples of analysis were identified as applicable for inspection at this time.

b. Findings

No findings were identified.

1A26 (Unit 3) ITAAC Number 3.3.00.07d.iv.b (807) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iv.b (807). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204, and 12205 at elevation 82'-6"; rooms 12301, 12303, and 12304 at elevation 100'-0"; rooms 12401, 12405 and 12412 at elevation 117'-6"; and rooms 12501 and 12505 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents, to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. In addition, the inspectors reviewed ND-18-0814, "Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.iv.b [Index Number 807]."

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, and barriers were not provided. No samples of analysis were identified as applicable for inspection at this time.

b. Findings

No findings were identified.

1A27 (Unit 3) ITAAC Number 3.3.00.07d.iv.c (808) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.iv.c (808). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, enclosed raceway or IEEE 384 barriers as indicated in the construction documents, to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, and barriers were not provided. No samples of analysis were identified as applicable for inspection at this time.

b. Findings

No findings were identified.

1A28 (Unit 3) ITAAC Number 3.3.00.07d.v.a (809) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.v.a (809). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside containment in Unit 3 to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables at multiple elevations in containment.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed separation from other raceways from different divisions and non-class 1E raceways and dimensioning as indicated in the construction documents to determine if the requirements of specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, barriers were not provided, and the condition had not been analyzed, then the circuits would have to be designed as associated circuits or Class 1E. No samples of associated circuits were identified as applicable for inspection at this time. This condition does not exist in the current design.

b. Findings

No findings were identified.

1A29 (Unit 3) ITAAC Number 3.3.00.07d.v.b (810) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.v.b (810). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12201, 12204, and 12205 at elevation 82'-6"; rooms 12301, 12303, and 12304 at elevation 100'-0"; rooms 12401, 12405 and 12412 at elevation 117'-6"; and rooms 12501 and 12505 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed separation from other raceways from different divisions and non-class 1E raceways and dimensioning as indicated in the construction documents to determine if the requirements of specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. In addition, the inspectors reviewed "ND-18-0814, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.v.b [Index Number 810]."

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, barriers were not provided, and the condition had not been analyzed, then the circuits would have to be designed as associated circuits or Class 1E. No samples of associated circuits were identified as applicable for inspection at this time. This condition does not exist in the current design.

b. Findings

No findings were identified.

1A30 (Unit 3) ITAAC Number 3.3.00.07d.v.c (811) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07d.v.c (811). 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.A.02.01 - Observation of in-Process Installation Activities
- 65001.A.02.02 - Installation Records Review

The inspectors performed an inspection of raceways and cables inside the radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in rooms 12162, 12163, 12254, 12272, 12274, 12256, 12351, 12452, 12553, and 12562.

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed separation from other raceways from different divisions and non-class 1E raceways and dimensioning as indicated in the construction documents to determine if the requirements of specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met.

The inspectors reviewed and discussed analyzed conditions where required separation was not achieved, barriers were not provided, and the condition had not been analyzed, then the circuits would have to be designed as associated circuits or Class 1E. No samples of associated circuits were identified as applicable for inspection at this time. This condition does not exist in the current design.

b. Findings

No findings were identified.

1A31 (Unit 3) ITAAC Number 3.3.00.07e (812) / Family 09A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.07e (812). 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

The inspectors performed an inspection of communication raceways and cables inside the non-radiologically controlled areas in the Unit 3 auxiliary building to verify the acceptance criteria of the ITAAC were met. Specifically, the inspectors reviewed documentation associated with in-process installation of raceways and cables in room 12303 at elevation 100'-0", room 12401 at elevation 117'-6", and room 12501 at elevation 135'-3".

The inspectors reviewed work procedures, construction drawings, design specifications, and work packages that addressed the separation between Class 1E raceways of different divisions and between Class 1E raceways and non-Class 1E raceways of the areas selected for safety-related raceways and cables. The inspectors reviewed raceway sizes, locations, horizontal and vertical separation distances from other raceways from different divisions and non-class 1E raceways, dimensioning, interconnection of the two divisions that are routed and separated such that the protection and safety monitoring system (PMS) voting logic was not defeated by the loss of any single raceway or fire area as indicated in the construction documents, to determine if the requirements of IEEE Standard 384 "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" 1981 and specification SV3-G1-V8-001, "AP1000 Electrical Installation Specification," were met. The inspectors also reviewed raceway sleeve sizes and installation details were consistent with dimensions and elevations shown on construction drawings and specifications.

b. Findings

No findings were identified.

1A32 (Unit 4) ITAAC Number 2.2.01.02a (91) / Family 06F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.01.02a (91). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.B-02.04 - Production Controls
- 65001.B-02.05 - Inspection
- 65001.F-02.02 - Fabrication Records Review

The inspectors reviewed the CB&I Laurens Inc. welding fabrication records with pipe spool subassembly sketch 891300-40-00181 for shop weld SV4-CAS-PLW-810-7 on line number CAS-PL-L519 of the compressed and instrument air system (CAS). The inspectors reviewed the specific weld located on the outlet side of ball valve CAS-PL-V204 for the service air supply outside containment isolation to determine if the 3-inch diameter stainless steel manually operated valve was fabricated for installation in accordance with the ASME Code Section III, Subsections NCA and NC for Class 2 components.

The inspectors reviewed the shop traveler sheets to verify established quality control (QC) inspection (and various ANI) hold points were signed-off and dated for acceptance of material verification and dimensions, internal cleanliness, fit-up with alignment tack welds using gas tungsten arc welding (GTAW), and final visual examination (prior to radiography) were in accordance with the ASME Code Section III, NCA-4134.10 and NC-4230. The inspectors also reviewed the entries on the shop traveler to determine whether the traceability of the stainless steel weld rods with heat No. CT9742 and welder B1 were maintained in accordance with NC-4122 and NC-4300.

The inspectors also reviewed the CB&I Laurens shop traveler to verify the final nondestructive examination with use of radiography was deemed acceptable with signature and date in accordance with the requirements of the ASME Code Section III, Article NC-5000. The inspectors reviewed the shop traveler to verify the ANI signed-off and dated the completion of the final documentation review including the ASME "NA" nameplate code stamping and Form N-5 code data report for shop assembly was in accordance with ASME Section III, Article NCA-5000 and Mandatory Appendix V.

b. Findings

No findings were identified.

1A33 (Unit 4) ITAAC Number 2.2.03.02a (159) / Family 06F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.02a (159). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.03-02.03 - Installation and Welding
- 65001.03-02.06 - Nondestructive Examination
- 65001.03-02.08 - Problem Identification and Resolution
- 65001.B-02.02 - Welding Procedure Qualification
- 65001.B-02.03 - Welder Qualification
- 65001.B-02.04 - Production Controls
- 65001.B-02.05 - Inspection

The inspectors reviewed welding and NDE records associated with field weld SV4-PXS-PLW-060-5 located on the outlet side of gate valve PXS-PL-V002B of line number L007B for the PXS from the cold leg to core makeup tank 2B to determine if the 8-inch diameter stainless steel motor operated valve was installed in accordance with the ASME Code Section III, Subsection NB, for Class 1 components.

The inspectors reviewed weld data sheet (WDS) SV4-PXS-PLW-060-5 for work package POW-1014016 to verify the gate valve was in the closed position during welding with the initial/date adjacent to the instructions, and established QC inspection hold points were signed-off and dated for acceptance of internal cleanliness, fit-up with alignment tack welds, and final visual examination was in accordance with the ASME Code Section III, Subsections NCA-4134.10 and NB-4230. The inspectors also reviewed the entries on the WDS to determine whether the traceability of the stainless steel weld rods with heat numbers 1030C and 1243V and welder SBS were maintained in accordance with NB-4122 and NB-4300.

The inspectors reviewed the contents of revised welding procedure specification WPS1-8.8T01 for the manual GTAW process with three previously reviewed supporting procedure qualification records to verify if editorial changes to the notes of Tables 1 and 2 did not affect essential variables described in ASME Section IX, Article II. The inspectors also reviewed the performance qualification record of the welder to verify the welder was tested and certified in accordance with the requirements of the ASME Code Section IX, Article III.

The inspectors reviewed two certified material test reports (CMTR) and two certificates of conformance (C of C) for each Type ER316L (low-carbon) welding rods of 3/32-inch and 1/8-inch diameters with heat numbers 1030C and 1243V, respectively, to verify the test results for chemical analysis and mechanical properties were in accordance with the requirements of ASME Section II-Part C (SFA-5.9), ASME Section III (NCA-3800 and NB-2400), and 10 CFR 50 Appendix B with reference to 10 CFR Part 21 and 10 CFR 50.55a applicability.

The inspectors reviewed the visual acuity records and Level II visual inspection certifications for two S&W NDE inspectors who performed the internal cleanliness and fit-up inspections, and final visual examination (VT) of the weld joint to verify individual certifications for NDE-VT were performed in accordance with SNT-TC-1A with signatures by an independent Level III examiner.

The inspectors reviewed MISTRAS liquid penetrant examination report V-19-PT-301-3635 for the field weld with ISI surface preparation to determine whether acceptance was performed by a SNT-TC-1A Level II examiner with ANI signature with no rejectable indications in accordance with the requirements of the ASME Code Section III, Subsection NB-5000, Section V, Article 6, and previously reviewed MISTRAS procedure 100-PT-301. The inspectors also reviewed the MISTRAS annual visual acuity record and NDT Certification Record 26510 of a liquid penetrant Level II inspector with expiration date of August 9, 2022, to verify this individual's certifications for NDE-PT were performed in accordance with SNT-TC-1A with signatures by an independent Level III examiner.

The inspectors reviewed MISTRAS computed radiography examination report V-19-RT-302-1246 for the field weld with ISI surface preparation to determine whether acceptance was performed by a SNT-TC-1A Level II technician with no rejectable indications using the type of source, IQI size, exposure time, and geometric unsharpness in accordance with the requirements of the ASME Code Section III, Subsection NB-5000, Section V, Article 2, and previously reviewed MISTRAS procedure 521-RT-302.

The inspectors also reviewed the MISTRAS annual visual acuity record and newly designated NDT Certification Record 27082 of same radiography Level III inspector for MISTRAS with expiration date of October 16, 2024, to verify this individual's certifications for NDE-RT were performed in accordance with SNT-TC-1A with signatures by another independent Level III examiner.

The inspectors reviewed N&D SV4-PXS-GNR-000037 titled "CAP IR 2018-18586: SV4-PXS" to verify nonconforming conditions of missing PSI/ISI reference markings on shop weld PXS-PLW-060-8 of piping isometric drawing SV4-PXS-PLW-060 (including 34 welds on nine other PXS isometric drawings) were addressed and applied on each side of each weld joint to provide surface or volumetric examinations in accordance with the requirements of ASME Code Sections III, NB-4424.2, and Section XI, IWA-2600.

The inspectors reviewed E&DCR APP-GW-GEF-1904, "Gas Intrusion Notation Clarification," to verify corrective actions were completed. Specifically, the inspectors reviewed piping isometric drawing APP-PXS-PLW-060-R7 and 18 other PXS isometric drawings that were revised with a notation to convey the minimum technical requirement for horizontal pipe segments to be level or sloped upwards such that no local low or high points exist to avoid gas accumulation for the PXS system (including RCS, RNS, CVS, and SFS systems) and were in accordance with the requirements of Westinghouse Electric Company (WEC) piping specification APP-GW-P0-008, paragraph 3.9.6.

b. Findings

No findings were identified.

1A34 (Unit 4) ITAAC Number 2.2.03.08b.02 (176) / Family 06A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.08b.02 (176). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.02 - Installation Records Review
- 65001.A.02.03 - Independent Assessment/Measurement Inspection

The inspectors performed an inspection to verify the elevation difference between the Unit 4 passive residual heat removal (PRHR) system heat exchanger upper channel head with respect to RCS loop 1 hot leg piping satisfied the ITAAC requirement. The inspectors reviewed quality records including the PCD and as-built drawings to verify the centerline elevation of the RCS loop hot leg piping was lower than the centerline elevation of the PRHR heat exchanger upper channel head by at least 26.3 feet as specified in Table 2.2.3-4 of Appendix C of the Vogtle Unit 4 COL.

The inspectors observed the licensee perform field survey elevation measurements of the RCS hot leg piping and reviewed the survey results for both the RCS hot leg piping and PRHR system heat exchanger upper channel head to validate the licensee's calculation of the minimum elevation difference.

b. Findings

No findings were identified.

1A35 (Unit 4) ITAAC Number 2.2.03.08c.iv.04 (186) / Family 03A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.08c.iv.04 (186). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A - As-Built Attributes for SSCs associated with ITAAC
- 65001.A.02.02 - Installation Records Review
- 65001.A.02.03 - Independent Assessment/Measurement Inspection

The inspectors performed an inspection to verify the maximum elevation of the top inside surface of the Unit 4 PRHR system heat exchanger outlet line to the steam generator connection was less than the elevation of the PRHR heat exchanger lower channel head top inside surface to satisfy the ITAAC requirement. The inspectors reviewed quality records including the PCD and as-built drawings to verify the centerline elevation of the top inside surface of the PRHR heat exchanger outlet line was lower than the centerline elevation of the heat exchanger lower channel head top inside surface as specified in Table 2.2.3-4 of Appendix C of the COL. The inspectors reviewed the licensee's field survey elevation measurements of the piping and PRHR heat exchanger lower channel head top inside surface to validate the licensee's calculation of the elevation difference.

b. Findings

No findings were identified.

1A36 (Unit 4) ITAAC Number 3.3.00.02g (775) / Family 11A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.02g (775). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.A.02.02 - Installation Records Review

The inspectors reviewed the licensee's PCD for this ITAAC, including the survey results, to determine if the results and methods used met the ITAAC acceptance criteria. Specifically, the inspectors reviewed the survey results to determine if the containment vessel maximum inside height from the operating deck was within the range of 146'-1" to 147'-7" as defined by the acceptance criteria. The inspectors also reviewed the survey results to determine if the containment inside diameter was within the range of 129'-6" to 131'-0" as defined by the acceptance criteria.

b. Findings

No findings were identified.

1A37 (Unit 4) ITAAC Number 3.3.00.05a (784) / Family 02C

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 3.3.00.05a (784). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.02-02.06 - Record Review
- 65001.C-02.04 - General Quality Assurance Review

The inspectors reviewed the licensee's PCD for this ITAAC, including several supporting documents associated with the nuclear island waterproofing membrane installation, to determine if the results and methods used met the ITAAC acceptance criteria. Specifically, the inspectors reviewed the PCD and a sample of work order packages, quality control inspection records and nonconformance reports to determine if quality control inspections were performed during construction to verify installation of water barrier on the nuclear island exterior walls up to site grade.

b. Findings

No findings were identified.

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

1P01 Construction QA Criterion 16

- 35007-A16.04.01 - Inspection of QA Implementing Documents
- 35007-A16.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed the licensee's corrective action documents associated with URI 05200025/2020001-01. This unresolved issue (URI) was opened to determine if a previously identified performance deficiency was material to the acceptance criteria of an ITAAC. Based on review of documentation provided by the licensee, URI 05200025/2020001-01 is being closed to NCV 05200025/2020002-01 in this report.

b. Findings

Introduction

The inspectors identified a construction finding of very low safety significance (Green) with an associated NCV of 10 CFR Part 50, Appendix B, Criterion XVI, "Corrective Action," for the licensee's failure to correct a condition adverse to quality related to inadequate thread engagement for TZ Hilti bolts identified in CR 50004237. Specifically, the licensee wrote CR 50004237 to address specification SV3/SV4-SS01-Z0-011, Revision 0, which allowed post-installed anchors to be installed so that the end of the bolt was flush with the nut. In the instance of the TZ Hilti bolts, bolt ends are tapered and when installed flush with the bolt, it would result in inadequate thread engagement; a condition that was inconsistent with manufacturer's installation requirements and specification SV3/SV4-SS01-Z0-011, Revision 1.

Description

CR 50004237 was written to address a condition adverse to quality related to the TZ Hilti bolts. Specification SV3/SV4-SS01-Z0-011, Revision 0, "Post-Installed Anchors for seismic Category I Buildings and Structures," on page 15, section 20, states in part: "Projection of the anchor shall be such that after final tightening of the nut the end of the bolt is not lower than flush with the top of the nut." QC inspectors were concerned that for Hilti type TZ anchors, which have a tapered end, the resulting thread engagement would result in less than full thread engagement between the bolt and nut. In addition, a request for information (RFI) was initiated and stated that: if any portion of the bolt's threads are above the surface of the nut, full thread engagement will have been accomplished.

Further details provided in the CR indicated that 3/8-inch TZ Hilti bolts installed prior to July 16, 2018, were accepted based on specification SV3/SV4-SS01-Z0-011, Revision 0 and therefore resulted in installations without full thread engagement. Technical evaluation (TE) 50006637, which was used to close CR 50004237, stated the previous installed TZ Hilti bolts were acceptable since they met the approved specification at that time which was contrary to the revised specification, the RFI, and the manufacturer's installation requirements.

During the week of January 17, 2020, inspectors determined the condition adverse to quality identified in CR 50004237, which dealt with inadequate thread engagement for Hilti TZ Post-Installed anchors, had not addressed the population of TZ Hilti bolts installed prior to initiation of CR 50004237. This issue was identified as a performance deficiency; however, an URI was opened to determine whether the performance deficiency was material to the acceptance criteria of an ITAAC.

On April 30, 2020, the licensee provided NRC inspectors additional documents related to the URI. Documents provided included:

- SV0-0000-CEC-001, "Evaluation of Nonconforming Installation of HILTI KB-TZ Post Installed Anchors," Revision 01

- SV0-SS01-GNR-000032, “ESR 500040102: 3/8" HILTI installations,” Revision 0
- SV0-SS01-GNR-000033, “ESR 50040102: SST HILTI Seismic I and Seismic II Eval,” Revision 0

Based on the inspectors’ review of the design calculation provided by Westinghouse, the TZ Hilti bolts in question were found to be able to perform their design function with no rework required. Associated nonconformance and disposition (N&D) reports listed the TZ Hilti bolts as “Use-as-is.” Since the TZ Hilti bolts were considered acceptable as is, no impacts to ITAAC were identified.

Analysis

The licensee’s failure to correct the lack of thread engagement for the TZ Hilti bolts was a performance deficiency. Criterion XVI, “Corrective Action,” of 10 CFR Part 50 Appendix B, requires in part that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances are promptly identified and corrected. The licensee failed to meet this requirement since they did not adequately address the adverse condition related to TZ Hilti bolts thread engagement identified in CR 50004237.

This performance deficiency was screened as more than minor in accordance with IMC 0613 Appendix E, “Examples of Minor Construction Issues.” The inspectors determined this performance deficiency was of more than minor safety significance, and thus a finding, because it represented an adverse condition that rendered the quality of an SSC, unacceptable or indeterminate, and required substantive corrective action. It should be noted the finding is not associated with an ITAAC, and is thus a construction finding.

The inspectors determined this finding was associated with the Procedure Quality attribute of the Construction Installation Cornerstone. The finding was not associated with a security program; it was not associated with an IMC 2504 operational or construction program; and it was not associated with a repetitive, NRC-identified omission of a program critical attribute. In accordance with IMC 2519, “Construction Significance Determination Process,” Appendix A, “AP 1000 Construction Significance Determination Process,” dated December 6, 2017, the inspectors determined the finding was a generic issue and not associated with a specific ITAAC. In addition, the licensee was able to show the anchors would meet their intended safety function and did not require any rework or repairs. Therefore, the inspectors determined this finding to be of very low safety significance (Green) (Step 7.b of Appendix A, IMC 2519).

In accordance with IMC 0613, Appendix F, “Construction Cross-Cutting Areas and Aspects,” dated May 1, 2020, the inspectors determined the finding was indicative of present licensee performance and was associated with the cross-cutting aspect of Problem Identification and Resolution. Specifically, the licensee failed to thoroughly evaluate the issue to ensure that the resolution addressed the extent of condition for inadequate thread engagement identified in CR 50004237. [P.2]

Enforcement

10 CFR Part 50 Appendix B, Criterion XVI, "Corrective Action," requires, in part, that "measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances are promptly identified and corrected."

Contrary to the above, prior to January 17, 2020, the licensee failed to address TZ Hilti bolts installed with inadequate thread engagement identified in CR 50004237. Specifically, CR 50004237 was written to address specification SV3/SV4-SS01-Z0-011, Revision 0, which allowed post-installed anchors to be installed so that the end of the bolt was flush with the nut. In the instance of the TZ Hilti bolts, bolt ends are tapered and when installed flush with the nut would result in inadequate thread engagement. The licensee entered this issue into its corrective action program as CR 50039089. The licensee performed corrective actions and was able to demonstrate TZ Hilti bolts installed with bolt ends flush with the nut would be able to meet their intended safety function. Because this violation was not repetitive or willful, was of very low safety significance, and was entered into the licensee's corrective action program, it is being treated as an NCV consistent with Section 2.3.2.a of the NRC Enforcement Policy (NCV 05200025/2020002-01, Failure to Correct Inadequate Thread Engagement for TZ Hilti Bolts).

1P02 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 corrective action program (CAP) daily to assess which ones might warrant additional follow-up inspection, to assess repetitive or long term issues, to assess adverse performance trends, and to verify the CAP included regulatory required non-safety related 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 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 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.

1P03 Construction QA Criterion 16

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

a. Inspection Scope

The inspectors reviewed the licensee's corrective actions associated with CR 50031717, "Damaged vendor conductors in SV3-IDS," to verify corrective actions were completed in accordance with the licensee's CAP. The inspectors reviewed this CR to determine if the damage to vendor factory installed conductor/strands in safety related 250VDC switchboards and cabinets SV3-IDSC-DS-1, SV3-IDSA-DS-1 and SV3-IDSB-DS-1 were considered nonconforming and dispositioned in accordance with APP-GW-GAP-428, "Nonconforming and Disposition Report (N&D)", Revision 17. The inspectors also reviewed TE 60006912, TE 60006944, ESR 50032042, and ESR 50034501 to determine if the damage to vendor factory installed conductor/strands had been completed and correctly characterized and the corrective actions were adequate.

b. Findings

No findings were identified.

4. OTHER INSPECTION RESULTS

4OA6 Meetings, Including Exit

.1 Exit Meeting.

On July 20, 2020, the inspectors presented the inspection results to Mr. M. Meier, SNC Vice President of Regulatory Affairs, and other licensee and contractor staff members. Proprietary information was reviewed during the inspection period but was not included in the inspection report.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensees and Contractor Personnel

R. Beilke, ITAAC Project Manager
C. Castell, SNC Licensing Engineer
N. Kellenberger, SNC Licensing Supervisor
S. Leighty, SNC Licensing Supervisor
N. Patel, SNC Licensing Engineer
T. Petrak, SNC ITAAC Manager
L. Pritchett, SNC Licensing Engineer
K. Roberts, SNC, Licensing Manager
G. Scott, SNC Licensing Engineer
M. Yox, SNC Regulatory Affairs Director

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

<u>Item Number</u>	<u>Type</u>	<u>Status</u>	<u>Description</u>
05200025/2020002-01,	NCV	Open/Closed	Failure to Correct Inadequate Thread Engagement for TZ Hilti Bolts (Section 1P01)

LIST OF DOCUMENTS REVIEWED

Section 1

2503 Documents

Section 1A01

Procedures:

NCSP 03-77, "Construction Pressure Testing," Revision 5
QS 14.02, "Inspection Report System," Revision 11

Work Packages:

SV3-CCS-THW-1047262, "ASME III - PERFORM HYDRO TEST SV3-CCS-TH-H8002A ON ISOMETRICS SV3-CCS-PLW-04U, 05Y, 040, 050, 051, 053, 810, 812, 820," (52 pages), Revision 0

SV3-SFS-THW-1014088, "ASME III - PERFORM HYDRO TEST SV3-SFS-TH-H8001A ON ISOMETRICS SV3-SFS-PLW-520, 521, 600," (40 pages), Revision 0

SV3-SFS-THW-1014286, "ASME III - PERFORM HYDRO TEST SV3-SFS-TH-H8002A ON ISOMETRICS SV3-SFS-PLW-510, 511, 786, 787, 788, 789, and 78B," (60 pages), Revision 0

Section 1A02

CB&I Report of Radiographic Examination - Nuclear U3-363, evaluated by CB&I Level II NDE-RT Level II ID-No. 728683 for manway plate section weld S11-D37/D35, 3/11/2020

CB&I Report of Radiographic Examination - Nuclear U3-364, evaluated by CB&I Level II NDE-RT Level II ID-No. 728683 for top head to upper ring weld S11/TH4 (2 pages), 3/25/2020

CB&I Densitometer Calibration "Verification Log", for ID or Serial-No. 027945 for +/- 0.05 allowable variation, 5/21/2020

CB&I Level I and II NDE Certification of Qualification ASME Section III, for recertification of Level II NDE-RT Level II evaluator ID-No. 728683 with effective period of 1/2019 to 1/2022, 1/31/2019

Section 1A03

Calculations

APP-1000-S2C-002, "SSI Analysis for Deep Soil Site," Revision 2

APP-1000-S2C-015, "SSI Analysis for Firm Rock Profile," Revision 6

APP-1000-S2C-025, "AP1000 2D SSI Analysis with Adjacent Buildings," Revision 5

APP-1000-S2C-054, "Nuclear Island 3D SASSI Model," Revision 6

APP-1000-S2C-056, "Nuclear Island Seismic Floor Response Spectra," Revision 2

APP-1000-S2C-060, "Time History Analysis of Nuclear Island Shell Model," Revision 8

APP-1000-S2C-071, "Development of an Enveloping Time History for the AP1000 Nuclear Island," Revision 3

APP-1100-S2C-002, "Response Spectrum Analysis of AP1000 Containment Internal Structures," Revision 7

SV0-1000-S2C-005, "Vogtle 2D SSI Analysis with Adjacent Buildings," Revision 1

SV0-1000-S2C-033, "NI15: Nuclear Island Finite Element Model Verification," Revision 1

SV0-1000-S2C-801, "Vogtle Site Specific Evaluation Input," Revision 0

SV0-1000-S2C-802, "Soil-Structure Interaction Analysis of Vogtle Site," Revision 2

SV0-1000-S2C-808, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis: Floor Response Spectrum," Revision 0

Design Reports

APP-1000-S3R-008, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Seismic and Structural Analyses," Revision 5

APP-1000-S3R-009, "AP1000 Nuclear Island Seismic Analysis Report: Response Spectrum Analysis," Revision A

APP-GW-S2R-001, "Nuclear Island Structures Seismic Analysis Seismic Ground Motion," Revision 0

APP-GW-S2R-012, "Reconciliation of Design Floor Response Spectra for AP1000 Nuclear Island," Revision 1

SV0-1000-S2R-035, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis Report: Floor Response Spectra," Revision A

SV3-1010-GCR-002, "Vogtle Unit 3 As-built Nonconformance Review: Nuclear Island Basemat," Revision 0

SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A

SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A

APP-1010-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Basemat," Revision 1

APP-1100-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Containment Internal Structures," Revision 0

APP-1200-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Auxiliary Building," Revision 1
SV3-1010-GCR-001, "Vogtle Unit #3 As-Built Summary Report: Nuclear Island Basemat," Revision 1
APP-1010-CRR-001, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Auxiliary Building," Revision 2
APP-1010-CRR-002, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Containment Vessel Up To Elevation 100'-0"," Revision 2

Procedures

APP-GW-GAP-147, "AP1000 Current Licensing Basis Review," Revision 13
APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

Design Change Documents

DCP_DCP_000550, "As-Designed and As-Built Building Summary Report Guidance," September 30, 2019

Miscellaneous

APP-1000-ITH-008, "Standard Plant ITAACs 3.3 00.02a.i.a, 3.3 00.02a.i.b, 3.3 00.02a.i.c, 3.3 00.02a.i.d Performance and Documentation Plan," Revision 0
ND-19-1348, "Southern Nuclear Operating Company, Vogtle Electric Generating Plant Unit 3 and Unit 4, Notice of Uncompleted ITAAC 225-days Prior to Initial Fuel Load Item 3.3.00.2a.i.a [Index Number 760], (ML19326C865)

Section 1A04

Specifications

APP-GW-C1-001, "AP1000 Civil/Structural Design Criteria," Revision 5
SV3-CR01-Z0-010-R6, "SPECIFICATION FOR SUPPLY AND INSTALLATION OF MECHANICAL SPLICES FOR REINFORCING STEEL"
SV3-CR01-Z0-011, "Furnishing of Safety Related Reinforcing Steel, Westinghouse Safety Class C 'NUCLEAR SAFETY RELATED'", Revision 4
SV3-CC01-Z0-031, "Safety Related Placing Concrete and Reinforcing Steel, Westinghouse Seismic Category I, Safety Class C 'NUCLEAR SAFETY'", Revision 8

Drawings

SV3-0000-C9-001, AP1000 CONCRETE GENERAL NOTES," REV. 8
SV3-0000-C9-002, AP1000 CONCRETE GENERAL NOTES," REV. 7
SV3-1278-CC-001-R1, "SHIELD BUILDING ROOF SECTION A-A"
SV3-1278-CR-017-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT (CIRCUMFERENTIAL)"
SV3-1278-CR-018-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT (RADIAL) EXPOSED ROOF"
SV3-1278-CR-019-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT DETAIL 5"
SV3-1278-CR-020-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT DETAIL 6"

SV3-1278-CR-021-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT (RADIAL) NOT EXPOSED ROOF"
SV3-1278-CR-022-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT DETAILS 7,8"
SV3-1278-CR-023-R1, "CONICAL ROOF CONCRETE REINFORCEMENT TOP REINFORCEMENT DETAILS 9,10"
SV3-1278-CR-024-R2, "CONICAL ROOF CONCRETE REINFORCEMENT SECTION A-A – RADIAL AND VERTICAL BARS ARRANGEMENT"
SV3-1278-CR-025-R1, "CONICAL ROOF CONCRETE REINFORCEMENT SECTION B-B – CIRCUMFERENTIAL BARS ARRANGEMENT"

Engineering and Design Coordination Reports (E&DCRs)

SV0-1278-GEF-000014, "SB Conical Roof Reinforcement Configuration Changes (EFIN34120)," Revision 0
APP-1278-GEF-850133, "Shield Building Conical Roof Rebar Adjustments (II) – ESR#50017956-," Revision 0
APP-1278-GEF-850134, "Shield Building Conical Roof Rebar Adjustments (III) – ESR#50017956-," Revision 0
APP-FSAR-GEF-157, "Shield Building Conical Roof. Radial Girders connection reinforcement. Revised design," Revision 0

Section 1A05

Calculations

APP-1000-S2C-002, "SSI Analysis for Deep Soil Site," Revision 2
APP-1000-S2C-015, "SSI Analysis for Firm Rock Profile," Revision 6
APP-1000-S2C-025, "AP1000 2D SSI Analysis with Adjacent Buildings," Revision 5
APP-1000-S2C-030, "Response Spectrum Analysis of the AP1000 Auxiliary and Shield Building," Revision 5
APP-1000-S2C-054, "Nuclear Island 3D SASSI Model," Revision 6
APP-1000-S2C-056, "Nuclear Island Seismic Floor Response Spectra," Revision 2
APP-1000-S2C-060, "Time History Analysis of Nuclear Island Shell Model," Revision 8
APP-1000-S2C-071, "Development of an Enveloping Time History for the AP1000 Nuclear Island," Revision 3
SV0-1000-S2C-005, "Vogtle 2D SSI Analysis with Adjacent Buildings," Revision 1
SV0-1000-S2C-033, "NI15: Nuclear Island Finite Element Model Verification," Revision 1
SV0-1000-S2C-801, "Vogtle Site Specific Evaluation Input," Revision 0
SV0-1000-S2C-802, "Soil-Structure Interaction Analysis of Vogtle Site," Revision 2
SV0-1000-S2C-808, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis: Floor Response Spectrum," Revision 0

Design Reports

APP-1000-S3R-008, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Seismic and Structural Analyses," Revision 5
APP-1000-S3R-009, "AP1000 Nuclear Island Seismic Analysis Report: Response Spectrum Analysis," Revision A
APP-GW-S2R-001, "Nuclear Island Structures Seismic Analysis Seismic Ground Motion," Revision 0
APP-GW-S2R-012, "Reconciliation of Design Floor Response Spectra for AP1000 Nuclear Island," Revision 1
SV0-1000-S2R-035, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis Report: Floor Response Spectra," Revision A

SV3-1010-GCR-002, "Vogtle Unit 3 As-built Nonconformance Review: Nuclear Island Basemat," Revision 0
SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A
APP-1010-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Basemat," Revision 1
APP-1200-S3R-014, "AP1000 Standard Plant As-Designed Summary Report for Shield Building Cylinder Wall SC Portions / Shield Building Tension Ring and Roof," Revision 0
APP-CA20-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: CA20 Module," Revision 0
SV3-1010-GCR-001, "Vogtle Unit #3 As-Built Summary Report: Nuclear Island Basemat," Revision 1
SV4-1010-GCR-001, "Vogtle Unit #4 As-Built Summary Report: Nuclear Island Basemat," Revision 0
APP-1010-CRR-001, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Auxiliary Building," Revision 2
APP-1010-CRR-002, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Containment Vessel Up To Elevation 100'-0"," Revision 2

Procedures

APP-GW-GAP-147, "AP1000 Current Licensing Basis Review," Revision 13
APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

Design Change Documents

DCP_DCP_000550, "As-Designed and As-Built Building Summary Report Guidance," September 30, 2019
APP-1208-GEF-494, "Auxiliary Building Roof Connection to Shield Building Wall Area 5&6. Update on SC connections margins," Revision 0

Miscellaneous

APP-1000-ITH-008, "Standard Plant ITAACs 3.3 00.02a.i.a, 3.3 00.02a.i.b, 3.3 00.02a.i.c, 3.3 00.02a.i.d Performance and Documentation Plan," Revision 0
ND-19-1349, "Southern Nuclear Operating Company, Vogtle Electric Generating Plant Unit 3 and Unit 4, Notice of Uncompleted ITAAC 225-days Prior to Initial Fuel Load Item 3.3.00.2a.i.b [Index Number 761], (ML19326B992)
APP-1010-CCC-017, "Affected Document List, Rev. 0_AD"

Section 1A06

Specifications

SV3-CC01-Z0-031, "Safety Related Placing Concrete and Reinforcing Steel," Revision 8
SV3-CC01-Z0-027, "Safety Related Concrete Testing Services," Revision 7

Engineering and Design Coordination Reports (E&DCRs)

APP-FSAR-GEF-166, "Shield Building Conical Roof. Compression Ring connection reinforcement. Revised design," Revision 0

Miscellaneous

"Under the CB20 Tank Phase Two Concrete Placement Plan," Revision 0
Concrete/Grout Delivery Ticket No. 57461, Pour #6084, 5/10, Date 06/22/2020
Concrete/Grout Delivery Ticket No. XXXXX, Pour #6084, 10/360, Date 06/22/2020

Section 1A07

Calculations

APP-1000-S2C-002, "SSI Analysis for Deep Soil Site," Revision 2
APP-1000-S2C-015, "SSI Analysis for Firm Rock Profile," Revision 6
APP-1000-S2C-025, "AP1000 2D SSI Analysis with Adjacent Buildings," Revision 5
APP-1000-S2C-030, "Response Spectrum Analysis of the AP1000 Auxiliary and Shield Building," Revision 5
APP-1000-S2C-054, "Nuclear Island 3D SASSI Model," Revision 6
APP-1000-S2C-056, "Nuclear Island Seismic Floor Response Spectra," Revision 2
APP-1000-S2C-060, "Time History Analysis of Nuclear Island Shell Model," Revision 8
APP-1000-S2C-071, "Development of an Enveloping Time History for the AP1000 Nuclear Island," Revision 3
APP-1200-S3C-122, "Auxiliary Building Wall 11 Reinforcement Detail Evaluation," Revision 1
APP-CE01-S3C-010, "Permanent Formwork Plates Capacity Calculation," Revision 0
SV0-1000-S2C-005, "Vogtle 2D SSI Analysis with Adjacent Buildings," Revision 1
SV0-1000-S2C-033, "NI15: Nuclear Island Finite Element Model Verification," Revision 1
SV0-1000-S2C-801, "Vogtle Site Specific Evaluation Input," Revision 0
SV0-1000-S2C-802, "Soil-Structure Interaction Analysis of Vogtle Site," Revision 2
SV0-1000-S2C-808, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis: Floor Response Spectrum," Revision 0

Design Reports

APP-1000-S3R-008, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Seismic and Structural Analyses," Revision 5
APP-1000-S3R-009, "AP1000 Nuclear Island Seismic Analysis Report: Response Spectrum Analysis," Revision A
APP-GW-S2R-001, "Nuclear Island Structures Seismic Analysis Seismic Ground Motion," Revision 0
APP-GW-S2R-012, "Reconciliation of Design Floor Response Spectra for AP1000 Nuclear Island," Revision 1
SV0-1000-S2R-035, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis Report: Floor Response Spectra," Revision A
SV3-1010-GCR-002, "Vogtle Unit 3 As-built Nonconformance Review: Nuclear Island Basemat," Revision 0
SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A
APP-1010-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Basemat," Revision 1
APP-1200-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Auxiliary Building," Revision 1

SV3-1010-GCR-001, "Vogtle Unit #3 As-Built Summary Report: Nuclear Island Basemat," Revision 1

SV4-1010-GCR-001, "Vogtle Unit #4 As-Built Summary Report: Nuclear Island Basemat," Revision 0

APP-1010-CRR-001, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Auxiliary Building," Revision 2

APP-1010-CRR-002, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Containment Vessel Up To Elevation 100'-0"," Revision 2

Procedures

APP-GW-GAP-147, "AP1000 Current Licensing Basis Review," Revision 13

APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8

APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19

APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17

APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5

APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

Design Change Documents

DCP_DCP_000550, "As-Designed and As-Built Building Summary Report Guidance," September 30, 2019

DCP_DCP_009386, "Effect of Permanent Formwork Plates on AP1000 Auxiliary Building Reinforced Concrete Wall Capacity and Stiffness," September 21, 2018

APP-1220-GEF-430, "Pipe break loads clarification on APP-1220-CCC-010," Revision 0

APP-1242-GEF-177, "Superseding APP-1242-GEF-177 with APP-1242-GEF-182 per (ESR 50008797)," Revision 0

APP-1242-GEF-179, "Permanent Formwork Plates (PFP) Wall K East Face Elevation 117'-6" to 133'-3"," Revision 0

APP-1242-GEF-180, "Permanent Formwork Plates (PFP) Wall J East and West Face Elevation 117'-6" to 133'-3"," Revision 0

APP-1242-GEF-182, "Wall 11 Elevation 117'-6" PFP design (ESR 50008797)," Revision 0

APP-1251-GEF-065, "Permanent Formwork Plates (PFP) Wall Q East Face Elevation 135'-3" to Roof (ESR 50013323)," Revision 0

APP-1251-GEF-067, "Auxiliary Building Area 1 Wall P EL 135'-3" West View Permanent Formwork Plate Optimization (ESR 50014747)," Revision 0

APP-1251-GEF-068, "Auxiliary Building Area 1 Wall M EL 135'-3" East View Permanent Formwork Plate Optimization," Revision 0

APP-1252-GEF-067, "Auxiliary Building Area 2 Wall I EL 135'-3" West View Permanent Formwork Plate Optimization," Revision 0

Miscellaneous

APP-1000-ITH-008, "Standard Plant ITAACs 3.3 00.02a.i.a, 3.3 00.02a.i.b, 3.3 00.02a.i.c, 3.3 00.02a.i.d Performance and Documentation Plan," Revision 0

ND-19-1350, "Southern Nuclear Operating Company, Vogtle Electric Generating Plant Unit 3 and Unit 4, Notice of Uncompleted ITAAC 225-days Prior to Initial Fuel Load Item 3.3.00.2a.i.c [Index Number 762], (ML19326B990)

Section 1A08

Calculations

APP-1000-S2C-002, "SSI Analysis for Deep Soil Site," Revision 2
APP-1000-S2C-015, "SSI Analysis for Firm Rock Profile," Revision 6
APP-1000-S2C-025, "AP1000 2D SSI Analysis with Adjacent Buildings," Revision 5
APP-1000-S2C-030, "Response Spectrum Analysis of the AP1000 Auxiliary and Shield Building," Revision 5
APP-1000-S2C-054, "Nuclear Island 3D SASSI Model," Revision 6
APP-1000-S2C-056, "Nuclear Island Seismic Floor Response Spectra," Revision 2
APP-1000-S2C-060, "Time History Analysis of Nuclear Island Shell Model," Revision 8
APP-1000-S2C-071, "Development of an Enveloping Time History for the AP1000 Nuclear Island," Revision 3
SV0-1000-S2C-005, "Vogtle 2D SSI Analysis with Adjacent Buildings," Revision 1
SV0-1000-S2C-033, "NI15: Nuclear Island Finite Element Model Verification," Revision 1
SV0-1000-S2C-801, "Vogtle Site Specific Evaluation Input," Revision 0
SV0-1000-S2C-802, "Soil-Structure Interaction Analysis of Vogtle Site," Revision 2
SV0-1000-S2C-808, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis: Floor Response Spectrum," Revision 0

Design Reports

APP-1000-S3R-008, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Seismic and Structural Analyses," Revision 5
APP-1000-S3R-009, "AP1000 Nuclear Island Seismic Analysis Report: Response Spectrum Analysis," Revision A
APP-GW-S2R-001, "Nuclear Island Structures Seismic Analysis Seismic Ground Motion," Revision 0
APP-GW-S2R-012, "Reconciliation of Design Floor Response Spectra for AP1000 Nuclear Island," Revision 1
SV0-1000-S2R-035, "Vogtle AP1000 Units 3 and 4 As-Built Nuclear Island Seismic Analysis Report: Floor Response Spectra," Revision A
SV3-1010-GCR-002, "Vogtle Unit 3 As-built Nonconformance Review: Nuclear Island Basemat," Revision 0
SV0-1000-ITX-001, "Document and Debt Listing for AP1000® Nuclear Island Structures," Revision A
SV0-1000-ITX-002, "Debt Assessment Tables for AP1000 Nuclear Island Structures," Revision A
APP-1010-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Nuclear Island Basemat," Revision 1
APP-1200-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: Auxiliary Building," Revision 1
APP-CA20-S3R-007, "AP1000 Standard Plant As-Designed Summary Report: CA20 Module," Revision 0
SV3-1010-GCR-001, "Vogtle Unit #3 As-Built Summary Report: Nuclear Island Basemat," Revision 1
APP-1010-CRR-001, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Auxiliary Building," Revision 2
APP-1010-CRR-002, "Drawing Package Design Review Report for CR Drawings for the Nuclear Island Basemat below the Containment Vessel Up To Elevation 100'-0"," Revision 2

Procedures

APP-GW-GAP-147, "AP1000 Current Licensing Basis Review," Revision 13

APP-GW-GAP-341, "AP1000 Plant Program Design Change Control," Revision 8
APP-GW-GAP-420, "Engineering and Design Coordination Report," Revision 19
APP-GW-GAP-428, "Nonconformance and Disposition Report (N&D)," Revision 17
APP-GW-GAP-620, "AP1000 Configuration Set Procedure," Revision 5
APP-GW-S0Y-001, "Screening and Review of As-Built Changes and Deviations for AP1000 Nuclear Island Building Structures," Revision 1

Design Change Documents

DCP_DCP_000550, "As-Designed and As-Built Building Summary Report Guidance,"
September 30, 2019
APP-GW-GEF-2250, "Clarification of Construction Loading in Civil/Structural Design Criteria,"
Revision 0

Miscellaneous

APP-1000-ITH-008, "Standard Plant ITAACs 3.3 00.02a.i.a, 3.3 00.02a.i.b, 3.3 00.02a.i.c, 3.3 00.02a.i.d Performance and Documentation Plan," Revision 0
ND-19-1351, "Southern Nuclear Operating Company, Vogtle Electric Generating Plant Unit 3 and Unit 4, Notice of Uncompleted ITAAC 225-days Prior to Initial Fuel Load Item 3.3.00.2a.i.d [Index Number 763], (ML19326B963)
APP-CA20-S5X-01001, "Affected Document List," Rev. 7_AD

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Specifications:

SV0-AT01-Z0-800001, Nuclear Island Waterproofing Membrane
Installation, Revision 5

Principal Closure Document (PCD):

SV0-1000-ITR-800784, Units 3&4 Inspection of Water Barrier on the Nuclear Island Exterior Wall up to Site Grade: ITAAC 3.3.00.05a, Revision 0

Drawings:

SV0-G100-XE-017, Vogtle Electric Generating Plant Spray Applied Waterproofing Membrane, Revision 0
SV0-G100-X9-X800000, Vogtle Electric Generating Plant NI Waterproofing Membrane Details Sheet 1, Revision 0
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132175-QA-S530-01-11-000036, NI Membrane for Mud Mat, dated 2/7/2012
132175-QA-S530-02-12-0150, NI Membrane for MSE Wall, dated 10/8/2012
132176-QA-S530-002-15-0012, Protective Coatings-Nuclear Island Membrane for MSE Wall, dated 7/28/2015
132176-QA-S530-001-13-0025, Nuclear Island Membrane for Mud Mat, dated 6/11/2013

Nonconforming and Disposition Reports (NDRs):

V-ND-11-0001, Sample No. BF-NOI7 -003(S) of Seismic Category 2 Backfill did not meet the pH requirements for use behind the MSE wall., dated 1/27/2011
SV0-AT01-GNR-000018, Manufacturer's Test Approves Reversing "Scrap", Revision 0
V-ND-12-0472, Visible Defects of Metaset 2 Joint Sealant, dated 9/11/2012
SV3-AT01-GNR-000015, Damage Requires Repairs to HDPE Liner, Revision 0

Engineering & Design Coordination Report (E&DCR):

SV3-XB01-GEF-000004, Northeast MSE Corner, Revision 0

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26139-000-2QI-Q07C-N3302, "Raceway and Accessories," Revision 4
26139-000-4MP-T81C-N3302, "Raceway and Accessories," Revision 7
NCSP 2-19-1, Work Package Planning, Development, Approval and Closure, dated 9/29/2011

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SV3-G1-V8-001, "AP1000 Electrical Installation Specification," Revision 7

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WEMMEX listing of Auxiliary Building's status of cable and raceway installation work packages.

Drawings:

APP-ECS-E9-040, Electrical Raceway and Cable Identification Markers, Revision 3

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Procedures:

26139-000-4MP-T81C-N1204, Construction Implementation and Closing of Work Packages, Revision 13
NCSP 2-19-1, Work Package Planning, Development, Approval and Closure, dated 9/29/2011

Specifications:

SV3-G1-V8-001, AP1000 Electrical Installation Specification, Revision 7

Drawings:

APP-ECS-E9-040, Electrical Raceway and Cable Identification Markers, Revision 3
APP-ECS-E9-030, Conduit Notes and Details, Revision 15

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ND-19-1270, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07ab [Index Number 790]

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SV3-SFS-EWW-1029871, U3 AUX Pull Cables SYS SFS From SV3-IDSA-DK-1 and Associated EQP, Revision 0
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Specifications:

APP-G1-V8-001, AP1000 Electrical Installation Specification, Revision 7

Miscellaneous:

WEMMEX listing of Aux Building status of cable pull and raceway installation work packages.

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Specifications:

SV3-G1-V8-001, "AP1000 Electrical Installation Specification," Revision 7

Procedures:

26139-000-4MP-T81C-N3303, "Cable Installation," Revision 6

Miscellaneous:

WEMMEX listing of Aux Building status of cable pull and raceway installation work packages.

Section 1A14

Specifications:

SV3-G1-V8-001, "AP1000 Electrical Installation Specification," Revision 7

Procedures:

26139-000-4MP-T81C-N3303, "Cable Installation," Revision 6

Miscellaneous:

WEMMEX listing of Aux Building status of cable pull and raceway installation work packages.

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Specifications:

SV3-G1-V8-001, "AP1000 Electrical Installation Specification," Revision 7

Procedures:

26139-000-4MP-T81C-N3303, "Cable Installation," Revision 6

Miscellaneous:

WEMMEX listing of Aux Building status of cable pull and raceway installation work packages.
SV3-G1-E1-003, Raceway Design Criteria, Revision 3

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APP-PMS-E5-JDBCCA0203, Combined Wiring Diagram Bistable/Coincidence Logic Cabinet 02 - Div. A APP-PMS-JD-BCCA02, Sheet 3 of 3, Revision 2
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APP-WLS-GJX-400, Liquid Radwaste System Component Nomenclature List, Revision 2
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SV3-1232-ERW-800008, U3 INSTALL CLASS 1E CONDUIT, EL 100'-0", AREA 2, ROOM 12303, Revision 0

Miscellaneous:

ND-18-0875, Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.i [Index Number 799]

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20
80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20
80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20
272164, Raceway Cable Pull ticket installation concerns, closed date06/23/18

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SV3-1222-ERW-800002, Installation of Cable Tray in The Auxiliary Building, Elev. 82'6", Area 2, Room 12201, Revision 0
SV3-1221-ERW-800011 U3 Install, Label Conduit SV3-1221-ER-BYC02, Pull Box SV3-1221-ER-BYP09 and supports in Auxiliary Building, EL. 82'-6", Area 1, Room 12204, Revision 0
V3-1221-ERW-800004, U3 INSTALL CABLE TRAY IN AUXILIARY BUILDING, EL. 82'-6", AREA 1, ROOM 12205, Revision 0
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SV3-1232-ERW-1003611, U3 - AUX - Install 1E Cable Tray - Room 12301 - EL 100' - Area 2, Revision 0
SV3-1232-ERW-800008, U3 INSTALL CLASS 1E CONDUIT, EL 100'-0", AREA 2, ROOM 12303, Revision 0
SV3-1241-ERW-1014767, U3 - AUX Install and Label 1E Conduit - Elev. 117' 6" - Room 12405 - Area 1, Revision 0

Miscellaneous:

APP-1242-GEF-850055, E&DCR Barrier 01 on APP-1242-ER-001 (CAP IR-2020-668), Revision 0

APP-FSAR-GEF-089, E&DCR, Cable Tray Reclassification (NL-1385), Revision 0

SV3-ER02-V7-800004, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A

SV3-ER02-V7-800006, Gexpro, Thin Wall conduit fittings (for EMT conduit), Issue A

SV3-ER02-V7-800039, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A

SV3-ER02-V7-800039, Beck-Rigid CPLG, Conduit Coupling, Issue A

ND-18-0814, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load,

Item 3.3.00.07d.ii.b [Index Number 801], Item 3.3.00.07d.iii.b [Index Number 804], Item

3.3.00.07d.iv.b [Index Number 807], Item 3.3.00.07d.v.b [Index Number 810]

SR Cable WP 12201_4_5.xlsx, dated 04/22/2020

Cables – Room 12204.xlsx, dated 04/01/2020

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20

80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20

80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20

272164, Raceway Cable Pull ticket installation concerns, closed date 06/23/18

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APP-1224-ER-102, Auxiliary Building Area 4 Conduit Arrangement Plan at Elevation 82'-6" Sections and Details, Revision 8.

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W1102012, General Cable Lubricant Compatibility for Ultrol 60+ Cables, dated: May 19, 2016
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SV3-1222-ERW-800002, Installation of Cable Tray in The Auxiliary Building, Elev. 82'6", Area 2, Room 12201, Revision 0
SV3-1221-ERW-800011 U3 Install, Label Conduit SV3-1221-ER-BYC02, Pull Box SV3-1221-ER-BYP09 and supports in Auxiliary Building, EL. 82'-6", Area 1, Room 12204, Revision 0
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SV3-1232-ERW-800008, U3 Install Class 1E Conduit, EL 100'-0", Area 2, Room 12303, Revision 0
SV3-1241-ERW-1014767, U3 - AUX Install and Label 1E Conduit - Elev. 117' 6" - Room 12405 - Area 1, Revision 0

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APP-1242-GEF-850055, E&DCR Barrier 01 on APP-1242-ER-001 (CAP IR-2020-668), Revision 0
APP-FSAR-GEF-089, E&DCR, Cable Tray Reclassification (NL-1385), Revision 0
SV3-ER02-V7-800004, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A
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ND-18-0814, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.ii.b [Index Number 801], Item 3.3.00.07d.iii.b [Index Number 804], Item 3.3.00.07d.iv.b [Index Number 807], Item 3.3.00.07d.v.b [Index Number 810]
SR Cable WP 12201_4_5.xlsx, dated 04/22/2020
Cables – Room 12204.xlsx, dated 04/01/2020

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20
80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20
80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20
272164, Raceway Cable Pull ticket installation concerns, closed date 06/23/18

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APP-CA20-ER-411, Auxiliary Building Area 5 CA20 Module Conduit Arrangement Plan at Elevation 82'-6", Revision 8.

APP-1234-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 100'-0", Revision 6.

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APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8.

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APP-1254-ER-002, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 145'-9"/160'-0", Revision 6.

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APP-1254-ER-103, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 135'-3"/145'-9", Revision 3.

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SV3-EW50-EWD-850047 / 02-4621, Prysmian Group 3/0 500KCMIL 600V XLPE/XLPO Cable Data Sheet Ultrol 60+ 600V Class 1E Rated, Revision 1

SV3-EW50-EWD-850037 / 02-4610, Prysmian Group 2/C 4AWG w/6G 600V XLPE/XLPO Cable Data Sheet Ultrol 60+ 600V Class 1E Rated, Revision 2

SV3-EW50-EWD-850081 / 02-4837, Prysmian Group 1/C 4/0 AWG 600V XLPE/XLPO Cable Data Sheet Ultrol 60+ 600V Class 1E Rated, Revision 1

SV3-EW50-EWD-850080 / 02-5005, Prysmian Group 4/C 3/0 AWG w/ 4G 600V XLPE/XLPO Cable Data Sheet Ultrol 60+ 600V Class 1E Rated, Revision 1

SV3-EW50-EWD-850085 / 02-6001, Prysmian Group 1/C 3/0 AWG 600V XLPE/XLPO Cable Data Sheet Ultrol 60+ 600V Class 1E Rated, Revision 1

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SV3-1110-ER-102, "Conduit Layout Containment Building 11105 RV Cavity EL 71'6"-84'6" Z Conduits," Revision 3

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SV3-1132-ER-802, "Conduit Layout Sections Containment Building Area 2 El 107'2"-118'6" Class 1E Conduits," Revision 8

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SV3-1134-ER-004, "Tray Layout Containment Building Area 4 El 107'2"-118'6" X and Z Class Non 1E Trays," Revision 5

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NCSP 02-24, ITAAC Support Activities (AP1000), Revision 00.02

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SV3-1222-ERW-800002, Installation of Cable Tray in The Auxiliary Building, Elev. 82'6", Area 2, Room 12201, Rev. 0
SV3-1221-ERW-800011 U3 Install, Label Conduit SV3-1221-ER-BYC02, Pull Box SV3-1221-ER-BYP09 and supports in Auxiliary Building, EL. 82'-6", Area 1, Room 12204, Revision 0
SV3-1221-ERW-800004, U3 Install Cable Tray in Auxiliary Building, EL. 82'-6", Area 1, Room 12205, Revision 0
SV3-1231-ERW-1002593, U3, Aux, Install 1E Cable Tray, Elevation 100'-0" Room 12304, AREA 1, Revision 0
SV3-1232-ERW-1003611, U3 - Aux - Install 1E Cable Tray - Room 12301 - EL 100' - Area 2, Revision 0
SV3-1232-ERW-800008, U3 Install Class 1E Conduit, EL 100'-0", Area 2, Room 12303, Revision 0
SV3-1241-ERW-1014767, U3 - Aux Install and Label 1E Conduit - Elev. 117' 6" - Room 12405 - Area 1, Revision 0

Miscellaneous:

APP-1242-GEF-850055, E&DCR Barrier 01 on APP-1242-ER-001 (CAP IR-2020-668), Revision 0
APP-FSAR-GEF-089, E&DCR, Cable Tray Reclassification (NL-1385), Revision 0
SV3-ER02-V7-800004, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A
SV3-ER02-V7-800006, Gexpro, Thin Wall conduit fittings (for EMT conduit), Issue A
SV3-ER02-V7-800039, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A
SV3-ER02-V7-800039, Beck-Rigid CPLG, Conduit Coupling, Issue A

Miscellaneous:

ND-18-0814, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.ii.b [Index Number 801], Item 3.3.00.07d.iii.b [Index Number 804], Item 3.3.00.07d.iv.b [Index Number 807], Item 3.3.00.07d.v.b [Index Number 810]

Work Packages:

SR Cable WP 12201_4_5.xlsx, dated 04/22/2020
Cables – Room 12204.xlsx, dated 04/01/2020

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20
80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20
80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20
272164, Raceway Cable Pull ticket installation concerns, closed date 06/23/18

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APP-1224-ER-102, Auxiliary Building Area 4 Conduit Arrangement Plan at Elevation 82'-6" Sections and Details, Revision 8.

APP-1225-ER-001, Auxiliary Building Area 5 Cable Tray Arrangement Plan at Elevation 82'-6", Revision 11.

APP-1225-ER-101, Auxiliary Building Area 5 Conduit Arrangement Plan at Elevation 82'-6", Revision 6.

APP-1226-ER-001, Auxiliary Building Area 6 Cable Tray Arrangement Plan at Elevation 82'-6", Revision 5.

APP-1226-ER-101, Auxiliary Building Area 6 Conduit Arrangement Plan at Elevation 82'-6", Revision 5.

APP-CA20-ER-411, Auxiliary Building Area 5 CA20 Module Conduit Arrangement Plan at Elevation 82'-6", Revision 8.

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 10.

APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8.

APP-1244-ER-001, Auxiliary Building Area 4 Non-Class 1E Cable Tray Arrangement Plan at Elevation 117'-6", Revision 8.

APP-1244-ER-002, Auxiliary Building Area 4 Class 1E Cable Tray Arrangement Plan at Elevation 117'-6", Revision 7.

APP-1244-ER-003, Auxiliary Building Area 4 Class 1E Cable Tray Layout at Elevation 117'-6" Sections and Details, Revision 6.

APP-1244-ER-004, Auxiliary Building Area 4 Non-Class 1E Cable Tray Layout at Elevation 117'-6" Sections and Details, Revision 6.

APP-1244-ER-101, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 117'-6", Revision 8.

APP-1244-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 117'-6" Sections and Details (Sheet 1), Revision 8.

APP-1244-ER-103, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 117'-6", Revision 3.

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Procedures:

26139-000-4MP-T81C-N1204, Construction Implementation and Closing of Work Packages,
Revision 13

SV3-G1-V8-001, AP1000 Electrical Installation Specification, Revision 7

NCSP 2-19-1, Work Package Planning, Development, Approval and Closure, dated 9/29/2011

NCSP 02-24, ITAAC Support Activities (AP1000), Revision 00.02

Drawings:

APP-ECS-E9-031, Conduit Notes and Details, Sheet 2, Revision 13

APP-ECS-E9-032, Conduit Notes and Details, Sheet 3, Revision 12

APP-ECS-E9-033, Conduit Notes and Details, Sheet 4, Revision 17

APP-ECS-E9-035, Conduit Notes and Details, Sheet 6, Revision 8

APP-ECS-E9-040, Electrical Raceway and Cable Identification Markers, Revision 3

APP-1221-ER-001, Auxiliary Building Area 1, Cable Tray Arrangement Plan at Elevation 82"-6",
Revision 10

APP-1221-ER-101, Auxiliary Building Area 1, Class IE, Conduit Arrangement Plan at Elevation
82"-6", Revision 15

APP-1221-ER-105, Auxiliary Building Area 1, Non-Class IE, Conduit Arrangement Plan at
Elevation 82"-6", Revision 3

APP-1222-ER-001, Auxiliary Building Area 2, Cable Tray Arrangement, Plan at Elevation 82"-6",
Revision 11

APP-1222-ER-101, Auxiliary Building Area 2, Class 1E Conduit Arrangement, Plan at Elevation
82"-6", Revision 18

APP-1222-ER-104, Auxiliary Building Area 2, Non-Class 1E Conduit Arrangement, Plan at
Elevation 82"-6", Revision 6

APP-ECS-E9-012, Cable Tray Notes and Details, Sheet 3, Revision 12

APP-ECS-E9-013, Cable Tray Notes and Details, Sheet 4, Revision 6

APP-ECS-E9-014, Cable Tray Notes and Details, Sheet 5, Revision 5

APP-ECS-E9-015, Cable Tray Notes and Details, Sheet 6, Revision 2

APP-ECS-E9-030, Conduit Notes and Details, Revision 15

APP-1231-ER-001, Auxiliary Building Area 1, Class 1E Cable Tray Arrangement Plan at Elevation 100"-0", Revision 12

APP-1231-ER-101, Auxiliary Building Area 1, Class 1E Conduit Arrangement, Plan at Elevation 100"-0", Revision 16

APP-1231-ER-105, Auxiliary Building Area 1, Class 1E Conduit Arrangement, at Elevation 100"-0", Room 12304 (Partial), Revision 7

APP-1231-ER-106, Auxiliary Building Area 1, Class 1E Conduit Arrangement Plan, at Elevation 100"-0", Room 12304 & 12300 (Partial), Revision 7

APP-1231-ER-114, Auxiliary Building Area 1, Non-Class 1E Conduit Plan, at Elevation 100"-0", Room 12304 (Partial), Revision 3

APP-1231-ER-002, Auxiliary Building Area 1, Cable Tray Arrangement Section and Details at Elevation 100"-0", Revision 2

APP-1232-ER-001, Auxiliary Building Area 2, Class 1E, Cable Tray Arrangement Plan at Elevation 100"-0", Revision 13

APP-1232-ER-101, Auxiliary Building Area 2, Class 1E, Conduit Arrangement Plan at Elevation 100"-0", Revision 15

APP-1232-ER-103, Auxiliary Building Area 2, Class 1E, Conduit Arrangement Plan at Elevation 100"-0", Revision 6

APP-1232-ER-116, Auxiliary Building Area 2, Conduit Arrangement Plan at Elevation 100"-0", Sections & Details (Sheet 2), Revision 2

APP-1241-ER-001, Auxiliary Building Area 1, Cable Tray Arrangement Plan at Elevation 117"-6", Revision 9

APP-1241-ER-101, Auxiliary Building Area 1, Conduit Arrangement Plan at Elevation 117"-6", Revision 10

APP-1241-ER-103, Auxiliary Building Area 1, Conduit Arrangement Plan at Elevation 117"-6", Dimensions Room 12405, Revision 6

APP-1241-ER-105, Auxiliary Building Area 1, Conduit Arrangement at Elevation 117"-6", Valve Pigtails, Revision 1

APP-1241-ER-107, Auxiliary Building Area 1, Conduit Arrangement at Elevation 117"-6", Sections Room 12405, Revision 0

APP-1251-ER-001, Auxiliary Building Area 1, Cable Tray Arrangement Plan at Elevation 135"-3", Revision 9

APP-1251-ER-101, Auxiliary Building Area 1, Class 1-E Conduit Arrangement Plan at Elevation 135"-3", Revision 11

APP-1251-ER-102, Auxiliary Building Area 1, Conduit Arrangement at Elevation 135"-3", Sections & Details, Revision 6

APP-1251-ER-104, Auxiliary Building Area 1, Non-Class 1E Conduit Arrangement Plan at Elevation 135"-3", Revision 2

APP-1252-ER-001, Auxiliary Building Area 2, Cable Tray Arrangement Plan at Elevation 135"-3", Revision 8

APP-1252-ER-101, Auxiliary Building Area 2, Class 1-E Conduit Arrangement Plan at Elevation 135"-3", Revision 6

APP-1252-ER-102, Auxiliary Building Area 2, Non-Class 1E Conduit Arrangement Plan at Elevation 135"-3", Dampers, Revision 7

APP-1252-ER-103, Auxiliary Building Area 2, Conduit Arrangement Plan at Elevation 135"-3", Instruments, Revision 7

APP-1252-ER-104, Auxiliary Building Area 2, Conduit Arrangement Plan at Elevation 135"-3", Sections & Details, Revision 1

APP-1252-ER-105, Auxiliary Building Area 2, Non-Class 1E Conduit Arrangement Plan at Elevation 135"-3", Dampers, Revision 4

Work Package:

SV3-1222-ERW-800002, Installation of Cable Tray in The Auxiliary Building, Elev. 82'6", Area 2, Room 12201, Revision 0

SV3-1221-ERW-800011 U3 Install, Label Conduit SV3-1221-ER-BYC02, Pull Box SV3-1221-ER-BYP09 and supports in Auxiliary Building, EL. 82'-6", Area 1, Room 12204, Revision 0

SV3-1221-ERW-800004, U3 Install Cable Tray in Auxiliary Building, EL. 82'-6", Area 1, Room 12205, Revision 0

SV3-1231-ERW-1002593, U3, Aux, Install 1E Cable Tray, Elevation 100'-0" Room 12304, AREA 1, Revision 0

SV3-1232-ERW-1003611, U3 - Aux - Install 1E Cable Tray - Room 12301 - EL 100' - Area 2, Revision 0

SV3-1232-ERW-800008, U3 Install Class 1E Conduit, EL 100'-0", Area 2, Room 12303, Revision 0

SV3-1241-ERW-1014767, U3 - Aux Install and Label 1E Conduit - Elev. 117' 6" - Room 12405 - Area 1, Revision 0

SR Cable WP 12201_4_5.xlsx, dated 04/22/2020

Cables – Room 12204.xlsx, dated 04/01/2020

Miscellaneous:

APP-1242-GEF-850055, E&DCR Barrier 01 on APP-1242-ER-001 (CAP IR-2020-668), Revision 0

APP-FSAR-GEF-089, E&DCR, Cable Tray Reclassification (NL-1385), Revision 0

SV3-ER02-V7-800004, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A

SV3-ER02-V7-800006, Gexpro, Thin Wall conduit fittings (for EMT conduit), Issue A

SV3-ER02-V7-800039, Gexpro, Condulet conduit bodies - cast Iron or Aluminum, Issue A

SV3-ER02-V7-800039, Beck-Rigid CPLG, Conduit Coupling, Issue A

ND-18-0814, Resubmittal of Notice of Uncompleted ITAAC 225-days Prior to initial Fuel Load, Item 3.3.00.07d.ii.b [Index Number 801], Item 3.3.00.07d.iii.b [Index Number 804], Item 3.3.00.07d.iv.b [Index Number 807], Item 3.3.00.07d.v.b [Index Number 810]

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20

80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20

80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20

272164, Raceway Cable Pull ticket installation concerns, closed date 06/23/18

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Drawings:

APP-1224-ER-101, Auxiliary Building Area 4 Conduit Arrangement Plan at Elevation 82'-6", Revision 11.

APP-1224-ER-102, Auxiliary Building Area 4 Conduit Arrangement Plan at Elevation 82'-6" Sections and Details, Revision 8.

APP-1225-ER-001, Auxiliary Building Area 5 Cable Tray Arrangement Plan at Elevation 82'-6", Revision 11.

APP-1225-ER-101, Auxiliary Building Area 5 Conduit Arrangement Plan at Elevation 82'-6", Revision 6.

APP-1226-ER-001, Auxiliary Building Area 6 Cable Tray Arrangement Plan at Elevation 82'-6", Revision 5.

APP-1226-ER-101, Auxiliary Building Area 6 Conduit Arrangement Plan at Elevation 82'-6", Revision 5.

APP-CA20-ER-411, Auxiliary Building Area 5 CA20 Module Conduit Arrangement Plan at Elevation 82'-6", Revision 8.
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 10.
APP-1234-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 100'-0", Revision 8.
APP-1244-ER-001, Auxiliary Building Area 4 Non-Class 1E Cable Tray Arrangement Plan at Elevation 117'-6", Revision 8.
APP-1244-ER-002, Auxiliary Building Area 4 Class 1E Cable Tray Arrangement Plan at Elevation 117'-6", Revision 7.
APP-1244-ER-003, Auxiliary Building Area 4 Class 1E Cable Tray Layout at Elevation 117'-6" Sections and Details, Revision 6.
APP-1244-ER-004, Auxiliary Building Area 4 Non-Class 1E Cable Tray Layout at Elevation 117'-6" Sections and Details, Revision 6.
APP-1244-ER-101, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 117'-6", Revision 8.
APP-1244-ER-102, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 117'-6" Sections and Details (Sheet 1), Revision 8.
APP-1244-ER-103, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 117'-6", Revision 3.
APP-1244-ER-104, Auxiliary Building Area 4 Class 1E Conduit Arrangement Plan at Elevation 117'-6" Sections and Details (Sheet 2), Revision 1.
APP-1254-ER-001, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 135'-3"/145'-9", Revision 7.
APP-1254-ER-002, Auxiliary Building Area 4 Cable Tray Arrangement Plan at Elevation 145'-9"/160'-0", Revision 6.
APP-1254-ER-101, Auxiliary Building Area 4 Class 1E Conduit & Non-Class 1E More Than 3" Arrangement Plan at Elevation 135'-3"/145'-9", Revision 8.
APP-1254-ER-102, Auxiliary Building Area 4 Conduit ("X") Arrangement Plan at Elevation 145'-9"/160'-0", Revision 10.
APP-1254-ER-103, Auxiliary Building Area 4 Non-Class 1E Conduit Arrangement Plan at Elevation 135'-3"/145'-9", Revision 3.
APP-1254-ER-001, Auxiliary Building Area 4 Conduit ("Y-Z") Arrangement Plan at Elevation 145'-9"/160'-0", Revision 2.
APP-1255-ER-001, Auxiliary Building Area 5 Cable Tray Arrangement Plan at Elevation 135'-3", Revision 6.
APP-1255-ER-101, Auxiliary Building Area 5 Conduit Arrangement Plan at Elevation 135'-3", Revision 7.
APP-1256-ER-001, Auxiliary Building Area 6 Cable Tray Arrangement Plan at Elevation 135'-3", Revision 4.
APP-1256-ER-101, Auxiliary Building Area 6 Conduit Arrangement Plan at Elevation 135'-3", Revision 6.

Specifications:

APP-G1-V8-001, AP1000 Electrical Installation Specification, Revision 7
APP-GW-E1-001, Electrical Systems Design Criteria, Revision 4

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26139-000-4MP-T81C-N1204, Construction Implementation and Closing of Work Packages, Revision 13
SV3-G1-V8-001, AP1000 Electrical Installation Specification, Rev. 7
NCSP 2-19-1, Work Package Planning, Development, Approval and Closure, dated 9/29/2011
NCSP 02-24, ITAAC Support Activities (AP1000), Revision 00.02

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APP-ECS-E9-031, Conduit Notes and Details, Sheet 2, Revision 13
APP-ECS-E9-032, Conduit Notes and Details, Sheet 3, Revision 12
APP-ECS-E9-033, Conduit Notes and Details, Sheet 4, Revision 17
APP-ECS-E9-035, Conduit Notes and Details, Sheet 6, Revision 8
APP-ECS-E9-040, Electrical Raceway and Cable Identification Markers, Revision 3
APP-1231-ER-001, Auxiliary Building Area 1, Class 1E Cable Tray Arrangement Plan at Elevation 100"-0", Revision 12
APP-1231-ER-101, Auxiliary Building Area 1, Class 1E Conduit Arrangement, Plan at Elevation 100"-0", Revision 16
APP-1231-ER-002, Auxiliary Building Area 1, Cable Tray Arrangement Section and Details at Elevation 100"-0", Revision 2
APP-1232-ER-001, Auxiliary Building Area 2, Class 1E, Cable Tray Arrangement Plan at Elevation 100"-0", Revision 13
APP-1232-ER-101, Auxiliary Building Area 2, Class 1E, Conduit Arrangement Plan at Elevation 100"-0", Revision 15
APP-1232-ER-103, Auxiliary Building Area 2, Class 1E, Conduit Arrangement Plan at Elevation 100"-0", Revision 6
APP-1232-ER-116, Auxiliary Building Area 2, Conduit Arrangement Plan at Elevation 100"-0", Sections & Details (Sheet 2), Revision 2
APP-1241-ER-001, Auxiliary Building Area 1, Cable Tray Arrangement Plan at Elevation 117"-6", Revision 9
APP-1241-ER-101, Auxiliary Building Area 1, Conduit Arrangement Plan at Elevation 117"-6", Revision 10
APP-1241-ER-105, Auxiliary Building Area 1, Conduit Arrangement at Elevation 117"-6", Valve Pigtails, Revision 1
APP-1251-ER-001, Auxiliary Building Area 1, Cable Tray Arrangement Plan at Elevation 135"-3", Revision 9
APP-1251-ER-101, Auxiliary Building Area 1, Class 1-E Conduit Arrangement Plan at Elevation 135"-3", Revision 11
APP-1251-ER-102, Auxiliary Building Area 1, Conduit Arrangement at Elevation 135"-3", Sections & Details, Revision 6
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Work Packages:

SV3-1232-ERW-800008, U3 INSTALL CLASS 1E CONDUIT, EL 100'-0", AREA 2, ROOM 12303, Revision 0

Existing Condition Reports:

80001396, IDS System designed cables missing in WEMMEX/WIRED database, closed 05/08/20

80002320, SR Cable Routed outside of cable tray fill area, closed 03/26/20

80001173, Safety-Related cables reworked without QC involvement, closed 04/21/20

272164, Raceway Cable Pull ticket installation concerns, closed date 06/23/18

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CB&I Laurens Sketch-No. 891300-40-00181 with subassembly isometric drawing, 4/13/2017

CB&I Laurens Shop Traveler (2 pages), 2/13/2016

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WEC APP-GW-P0-008, "AP1000 Specification for Field Fabricated Piping and Installation, ASME III, Code Classes 1, 2, and 3 and ASME B31.1," Revision 6

WEC Piping Isometric Drawing-No. SV4-PXS-PLW-060-R3, "Passive Core Cooling System Containment Bldg Room 11400 PXS Line From Cold Leg to CMT 02B," Revision 3

S&W SV4-PXS-P0W-1014016, Work Package "ASME III - Install Containment PXS Pipe & Support for ISO: SV4-PXS-PLW-060," 09/18/2019

S&W Weld Data Sheet SV4-PXS-PLW-060-5, 09/18/2019

S&W Welding Procedure Specification (WPS) ASME Section IX, WPS1-8.8T01 with supporting Procedure Qualification Records (PQR) PQ574, PQ589, and PQ595, Revision 13, 4/1/2020

S&W Record of Welder Performance Qualification Test - ASME Section IX, Test-No. 1SS-02, 07/17/2018

Lincoln Electric Certified Material Test Report (CMTR), 4931885 ES-ZBES, 3/32" diameter, SFA-5.9, ER316/316L, Q3 Lot 1030C, 2/16/2017

Lincoln Electric Certification of Conformance (C of C), 4931885 ES-ZBES, 3/32" diameter, SFA-5.9, ER316/316L, Q3 Lot 1030C, 29 Nov 2011

Lincoln Electric Certified Material Test Report (CMTR), 7341122 ES-ZBER, 1/8" diameter, SFA-5.9, ER316/316L, Q3 Lot 1243V, 8/31/2015

Lincoln Electric Certification of Conformance (C of C), 7341122 ES-ZBER, 1/8" diameter, SFA-5.9, ER316/316L, Q3 Lot 1243V, 31 Aug 2015

S&W Eye Test Certification of 09/27/2019 and ANSI Level II Qualification Summary with Certification of Qualification - Special Process certified by Level III, 10/23/2019

S&W Eye Test Certification of 08/07/2019 and ANSI Level II Qualification Summary with Certification of Qualification - Special Process certified by Level III, 06/01/2018

MISTRAS V-19-PT-301-3635, Nondestructive Examination Report Liquid Penetrant Examination, Weld-No. SV4-PXS-PLW-060-5, 11/15/2019

MISTRAS Visual Acuity Record of 08/26/2019 and NDT Certification Record 26510 for Liquid Penetrant Level II on 8/27/2019 with Education, Training, Experience, and Examinations certified by Level III, 2019/09/12

MISTRAS V-19-RT-302-1246, Computed Radiography Examination Report, Weld-No. SV4-PXS-PLW-060-5, 11/23/2019

MISTRAS Visual Acuity Record of 09/12/2019 and NDT Certification Record 27082 for Radiography Level III on 11/26/2019 with Education, Training, Experience, and Examinations certified by Level III, 2019/11/27

WEC SV4-PXS-GNR-000037, AP1000 Nonconformance and Disposition Report titled "CAP IR 2018-18586: SV4-PXS," 03/19/2019

WEC SV4-GW-GEF-1904, AP1000 Engineering and Design Coordination Report titled "Gas Intrusion Notation Clarification," 06/07/2017

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SV4-PXS-FSK-800176, "Unit 4 As-Built Elevation Comparison of PRHR Heat Exchanger Upper Channel Head Centerline to RCS Hot Leg Centerline," Revision 0

SV4-ME02-V2-001, "AP1000 Passive Residual Heat Removal Heat Exchanger Assembly Drawing," Revision 0

SV4-RCS-FSK-800376, "Vogtle Unit 4 RCS Hot and Cold Leg As-Built Centerline Elevations," Revisions 0 and 1

SV4-1000-P2-931, "Nuclear Island General Arrangement Section D-D," Revision 1

Survey data obtained from SWR 1060587, 1/28/19

Survey data obtained from SWR 1195621, 4/14/20

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SV4-PXS-FSK-800186, "Unit 4 As-Built PRHR HX Outlet Lines Elevation Comparison to PRHR HX Lower Channel Head Top Inside Surface Elevation," Revisions 0 and 1

Survey Data Obtained from SWR Number-1195618, 4/14/20

SV4-ME02-V2-001, "AP 1000 Passive Residual Heat Removal Heat Exchanger Assembly Drawing," Revision 0

SV4-ME02-V2-002, "AP 1000 Passive Residual Heat Removal Heat Exchanger Header Assembly," Revision 0

SV4-RCS-M6-001, "Piping and Instrumentation Diagram Reactor Coolant System," Revision 7

SV4-PXS-M6-002, "Piping and Instrumentation Diagram Passive Core Cooling System," Revision 9

SV4-PXS-PLW-042, "Passive Core Cooling System Containment Building Room 11300 PRHR Return Line to SG 01," Revision 1

SV4-PXS-PLW-041, "Passive Core Cooling System Containment Building Room 11300 PRHR Return Line to SG 01," Revision 2

SV4-RCS-PLW-04A, "Reactor Coolant System Containment Building Rooms 11300/11303 PRHR Return Line to SG 01," Revision 2

SV4-RCS-PLW-04B, "Reactor Coolant System Containment Building Room 11300 PRHR Return Line to SG 01," Revision 2

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ND-20-0572, ITAAC Closure Notification on Completion of ITAAC 3.3.00.02q [Index Number 775, dated May 15, 2020

SV4-1000-FSK-800775, Vogtle Unit 4 Containment Vessel Inside Height from The Operating Deck and The Inside Diameter, Revision 0

26139-000-4MP-T81C-N3201, "Construction Survey", Revision 4

26139-000-4MP-T81C-N3201, "Construction Survey", Revision 5

Surveying Field Notes 1192238, U4-CV-ITAAC Inside Height of Top Head from Operating Deck, date April 30, 2020

U4-CV-INSIDE-DIAMETER-SWR1192238-05062020, UNIT 4 CONTAINMENT BUILDING VESSEL INSIDE DIAMETER ELEVATION 107, dated 5/6/2020

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Specifications:

SV0-AT01-Z0-800001, Nuclear Island Waterproofing Membrane Installation, Revision 5

Principal Closure Document (PCD):

SV0-1000-ITR-800784, Units 3&4 Inspection of Water Barrier on the Nuclear Island
Exterior Wall up to Site Grade: ITAAC 3.3.00.05a, Revision 0

Drawings:

SV0-G100-XE-017, Vogtle Electric Generating Plant Spray Applied Waterproofing Membrane,
Revision 0

SV0-G100-X9-X800000, Vogtle Electric Generating Plant NI Waterproofing Membrane Details
Sheet 1, Revision 0

SV0-G100-X9-X800001, Vogtle Electric Generating Plant NI Waterproofing Membrane Details
Sheet 2, Revision 0

Work Packages:

Work Package SV3-G100-XEW-CV0246, UNIT 3 NUCLEAR ISLAND VERTICAL
WATERPROOF MEMBRANE, Revision 4

Work Package SV3-G100-XEW-CV0416, UNIT 3 NUCLEAR ISLAND VERTICAL
WATERPROOF MEMBRANE (REMAINING INSTALLATION), Revision 4

Work Package SV4-G100-XEW-CV0543, UNIT 4 NUCLEAR ISLAND WATERPROOF
MEMBRANE, Revision 3

Work Package SV4-G100-XEW-CV0628, UNIT 4 VERTICAL WATERPROOFING MEMBRANE,
Revision 0

Quality Control Inspection Reports:

132175-QA-S530-01-11-000036, NI Membrane for Mud Mat, dated 2/7/2012

132175-QA-S530-02-12-0150, NI Membrane for MSE Wall, dated 10/8/2012

132176-QA-S530-002-15-0012, Protective Coatings-Nuclear Island Membrane for MSE Wall,
dated 7/28/2015

132176-QA-S530-001-13-0025, Nuclear Island Membrane for Mud Mat, dated 6/11/2013

Nonconforming and Disposition Reports (NDRs):

V-ND-11-0001, Sample No. BF-NOI7 -003(S) of Seismic Category 2 Backfill did not meet the
pH requirements for use behind the MSE wall., dated 1/27/2011

SV0-AT01-GNR-000018, Manufacturer's Test Approves Reversing "Scrap", Revision 0

V-ND-12-0472, Visible Defects of Metaset 2 Joint Sealant, dated 9/11/2012

SV3-AT01-GNR-000015, Damage Requires Repairs to HDPE Liner, Revision 0

Engineering & Design Coordination Report (E&DCR):

SV3-XB01-GEF-000004, Northeast MSE Corner, Revision 0

2504 Documents

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SV0-0000-CEC-001, Revision 1, Westinghouse Proprietary Doc

SV3-SS01-Z0-011, Post-Installed Anchors for Seismic Category I Buildings and Structures
"Nuclear Safety Related," Revision 0

SV3-SS01-Z0-011, Post-Installed Anchors for Seismic Category I Buildings and Structures
"Nuclear Safety Related," Revision 1

SV0-SS01-GNR-000032, ESR 500040102: 3/8" HILTI installations, Revision 0

SV0-SS01-GNR-000033, 50040102: SST HILTI Seismic I and Seismic II Eval, Revision 0

CR 50039089, NRC-identified inadequate resolution of CR 50004237 for Hilti Anchorage
Thread Engagement

CR 50004237, Hilti TZ Post-Installed Anchor Nut Thread Engagement
TE 50006637, Hilti TZ Post-Installed Anchor Nut Thread Engagement

Section 1P02

APP-GW-GAP-420, "Engineering and Design Coordination Reports," Revision 19
APP-GW-GAP-428, "Nonconformance and Disposition Report," Revision 17
ND-AD-002, "Nuclear Development Program Corrective Action Program," Revision 6.0
ND-AD-002-025, "Issue Identification, Screening, and Dispatching," Revision 3.0
ND-AD-002-026, "Corrective Action Program Processing," Revision 3.0
ND-AD-002-027, "Nonconforming Items," Revision 7.0

Section 1P03

Design Authority (Westinghouse) response for CR 50031717
Technical Evaluation 60006912,
Technical Evaluation 60006944
Engineering Service Request 50032042
Engineering Service Request 50034501
"IPC-A-610G, Acceptability of Electronic Assemblies, Section 6.3.2 Conductor – Damage, Table
6-2 Strand Damage, Revision G

LIST OF ACRONYMS

ACI	American Concrete Institute
ANI	Authorized Nuclear Inspector
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
CB&I	Chicago Bridge and Iron
10 CFR	Title 10 of the Code of Federal Regulations
CMTR	Certified Material Test Report
COL	Combined License
CR	Condition Report
DCP	Design Change Proposal
E&DCR	Engineering & Design Coordination Report
GTAW	Gas Tungsten Arc Welding
IEEE	Institute of Electrical and Electronic Engineers
IMC	Inspection Manual Chapter
IR	Inspection Report
IQI	Image Quality Indicator
ITAAC	Inspections, Tests, Analysis, and Inspection Criteria
N&D	Nonconformance and Disposition Reports
NCV	Non-Cited Violation
NDE	Nondestructive Examination
NRC	Nuclear Regulatory Commission
PCD	Principal Closure Document
PCS	Passive Containment Cooling System
PMS	Protection and Safety Monitoring System
PT	Liquid Penetrant Examination
PXS	Passive Core Cooling System
QA	Quality Assurance
QC	Quality Control
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RT	Radiographic Examination
SFS	Spent Fuel Pool
SSC	Structures, Systems, and Components
S&W	Stone and Webster
TE	Technical Evaluation
UFSAR	Updated Final Safety Analysis Report
URI	Unresolved Item
VEGP	Vogtle Electric Generating Plant
VT	Visual Examination
WDS	Weld Data Sheet
WEC	Westinghouse Electric Company
WPS	Welding Procedure Specification

ITAAC INSPECTED

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
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91	2.2.01.02a	<p>2.a) The components identified in Table 2.2.1-1 as ASME Code Section III are designed and constructed in accordance with ASME Code Section III requirements. 2.b) The piping identified in Table 2.2.1-2 as ASME Code Section III is designed and constructed in accordance with ASME Code Section III requirements. 3.a) Pressure boundary welds in components identified in Table 2.2.1-1 as ASME Code Section III meet ASME Code Section III requirements. 3.b) Pressure boundary welds in piping identified in Table 2.2.1-2 as ASME Code Section III meet ASME Code Section III requirements. 4.a) The components identified in Table 2.2.1-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure. 4.b) The piping identified in Table 2.2.1-2 as ASME Code Section III retains its pressure boundary integrity at its design pressure.</p>	<p>Inspection will be conducted of the as-built components and piping as documented in the ASME design reports. Inspection of the as-built pressure boundary welds will be performed in accordance with the ASME Code Section III. i) A hydrostatic or pressure test will be performed on the components required by the ASME Code Section III to be tested. A hydrostatic or pressure test will be performed on the piping required by the ASME Code Section III to be pressure tested.</p>	<p>The ASME Code Section III design reports exist for the as-built components and piping identified in Table 2.2.1-1 and 2.2.1-2 as ASME Code Section III. A report exists and concludes that the ASME Code Section III requirements are met for non-destructive examination of pressure boundary welds. i) A report exists and concludes that the results of the pressure test of the components identified in Table 2.2.1-1 as ASME Code Section III conform with the requirements of the ASME Code Section III. A report exists and concludes that the results of the pressure test of the piping identified in Table 2.2.1-2 as ASME Code Section III conform with the requirements of the ASME Code Section III.</p>
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159	2.2.03.02a	<p>2.a) The components identified in Table 2.2.3-1 as ASME Code Section III are designed and constructed in accordance with ASME Code Section III requirements.</p> <p>2.b) The piping identified in Table 2.2.3-2 as ASME Code Section III is designed and constructed in accordance with ASME Code Section III requirements.</p> <p>3.a) Pressure boundary welds in components identified in Table 2.2.3-1 as ASME Code Section III meet ASME Code Section III requirements.</p> <p>3.b) Pressure boundary welds in piping identified in Table 2.2.3-2 as ASME Code Section III meet ASME Code Section III requirements.</p> <p>4.a) The components identified in Table 2.2.3-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.</p> <p>4.b) The piping identified in Table 2.2.3-2 as ASME Code Section III retains its pressure boundary integrity at its design pressure.</p> <p>5.b) Each</p>	<p>Inspection will be conducted of the as-built components and piping as documented in the ASME design reports. Inspection of the as-built pressure boundary welds will be performed in accordance with the ASME Code Section III. A hydrostatic test will be performed on the components and piping required by the ASME Code Section III to be hydrostatically tested. Inspection will be performed for the existence of a report verifying that the as-built piping meets the requirements for functional capability. Inspection will be performed for the existence of an LBB evaluation report or an evaluation report on the protection from dynamic effects of a pipe break. Section 3.3, Nuclear Island Buildings, contains the design descriptions and inspections, tests, analyses, and acceptance criteria for protection from the dynamic effects of pipe rupture.</p>	<p>The ASME Code Section III design reports exist for the as-built components and piping identified in Table 2.2.3-1 and 2.2.3-2 as ASME Code Section III. A report exists and concludes that the ASME Code Section III requirements are met for nondestructive examination of pressure boundary welds. A report exists and concludes that the results of the hydrostatic test of the components and piping identified in Table 2.2.3-1 and 2.2.3-2 as ASME Code Section III conform with the requirements of the ASME Code Section III. A report exists and concludes that each of the as-built lines identified in Table 2.2.3-2 for which functional capability is required meets the requirements for functional capability. An LBB evaluation report exists and concludes that the LBB acceptance criteria are met by the as-built RCS piping and piping materials, or a pipe break evaluation report exists and concludes that protection from the dynamic effects of</p>
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No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
		<p>of the lines identified in Table 2.2.3-2 for which functional capability is required is designed to withstand combined normal and seismic design basis loads without a loss of its functional capability.</p> <p>6. Each of the as-built lines identified in Table 2.2.3-2 as-designed for LBB meets the LBB criteria, or an evaluation is performed of the protection from the dynamic effects of a rupture of the line.</p>		<p>a line break is provided.</p>
176	2.2.03.08b.02	8.b) The PXS provides core decay heat removal during design basis events.	2. Inspection of the elevation of the PRHR HX will be conducted.	2. The elevation of the centerline of the HX's upper channel head is greater than the HL centerline by at least 26.3 ft.
186	2.2.03.08c.iv.04	8.c) The PXS provides RCS makeup, boration, and safety injection during design basis events.	iv) Inspections of the elevation of the following pipe lines will be conducted: 4. PRHR HX outlet line to SG connection	iv) The maximum elevation of the top inside surface of these lines is less than the elevation of: 4. PRHR HX lower channel head top inside surface

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
760	3.3.00.02a.i.a	<p>2.a) The nuclear island structures, including the critical sections listed in Table 3.3-7, are seismic Category I and are designed and constructed to withstand design basis loads as specified in the Design Description, without loss of structural integrity and the safety-related functions.</p> <p>3.) Walls and floors of the nuclear island structures as defined on Table 3.3-1 except for designed openings or penetrations, provide shielding during normal operations.</p>	<p>i) An inspection of the nuclear island structures will be performed. Deviations from the design due to as-built conditions will be analyzed for the design basis loads, and for radiation shielding.</p>	<p>i.a) A report exists which reconciles deviations during construction, including Table 3.3-1 wall and floor thicknesses, and concludes that the as-built containment internal structures, including the critical sections, conform to the approved design and will withstand the design basis loads specified in the Design Description without loss of structural integrity or the safety-related functions, and without impacting compliance with the radiation protection licensing basis.</p>

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
761	3.3.00.02a.i.b	<p>2.a) The nuclear island structures, including the critical sections listed in Table 3.3-7, are seismic Category I and are designed and constructed to withstand design basis loads as specified in the Design Description, without loss of structural integrity and the safety-related functions.</p> <p>3.) Walls and floors of the nuclear island structures as defined on Table 3.3-1 except for designed openings or penetrations, provide shielding during normal operations.</p>	<p>i) An inspection of the nuclear island structures will be performed. Deviations from the design due to as-built conditions will be analyzed for the design basis loads, and for radiation shielding.</p>	<p>i.b) A report exists which reconciles deviations during construction, including Table 3.3-1 wall and floor thicknesses, and concludes that the as-built shield building structures, including the critical sections, conform to the approved design and will withstand the design basis loads specified in the Design Description without loss of structural integrity or the safety-related functions, and without impacting compliance with the radiation protection licensing basis.</p>

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
762	3.3.00.02a.i.c	<p>2.a) The nuclear island structures, including the critical sections listed in Table 3.3-7, are seismic Category I and are designed and constructed to withstand design basis loads as specified in the Design Description, without loss of structural integrity and the safety-related functions.</p> <p>3.) Walls and floors of the nuclear island structures as defined on Table 3.3-1 except for designed openings or penetrations, provide shielding during normal operations.</p>	<p>i) An inspection of the nuclear island structures will be performed. Deviations from the design due to as-built conditions will be analyzed for the design basis loads, and for radiation shielding.</p>	<p>i.c) A report exists which reconciles deviations during construction, including Table 3.3-1 wall and floor thicknesses, and concludes that the as-built structures in the non-radiologically controlled area of the auxiliary building, including the critical sections, conform to the approved design and will withstand the design basis loads specified in the Design Description without loss of structural integrity or the safety-related functions, and without impacting compliance with the radiation protection licensing basis.</p>

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
763	3.3.00.02a.i.d	<p>2.a) The nuclear island structures, including the critical sections listed in Table 3.3-7, are seismic Category I and are designed and constructed to withstand design basis loads as specified in the Design Description, without loss of structural integrity and the safety-related functions.</p> <p>3.) Walls and floors of the nuclear island structures as defined on Table 3.3-1 except for designed openings or penetrations, provide shielding during normal operations.</p>	<p>i) An inspection of the nuclear island structures will be performed. Deviations from the design due to as-built conditions will be analyzed for the design basis loads, and for radiation shielding.</p>	<p>i.d) A report exists which reconciles deviations during construction, including Table 3.3-1 wall and floor thicknesses, and concludes that the as-built structures in the radiologically controlled area of the auxiliary building, including the critical sections, conform to the approved design and will withstand the design basis loads specified in the Design Description without loss of structural integrity or the safety-related functions, and without impacting compliance with the radiation protection licensing basis.</p>
775	3.3.00.02g	<p>2.g) The containment vessel above the operating deck provides a heat transfer surface. A free volume exists inside the containment shell above the operating deck.</p>	<p>The maximum containment vessel inside height from the operating deck is measured and the inner radius below the spring line is measured at two orthogonal radial directions at one elevation.</p>	<p>The containment vessel maximum inside height from the operating deck is 146'-7" (with tolerance of +12", -6"), and the inside diameter is 130 feet nominal (with tolerance of +12", -6").</p>
784	3.3.00.05a	<p>5.a) Exterior walls and the basemat of the nuclear island have a water barrier up to site grade.</p>	<p>An inspection of the as-built water barrier will be performed during construction.</p>	<p>A report exists that confirms that a water barrier exists on the nuclear island exterior walls up to site grade.</p>

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
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.
791	3.3.00.07ac	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.	c) Class 1E electrical cables, and communication cables associated with only one division, and the raceways that route these cables in the radiologically controlled area of the auxiliary building are identified by the appropriate color code.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
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.
794	3.3.00.07bc	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.	c) Class 1E electrical cables and communication cables in the 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.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
795	3.3.00.07c.i.a	7.c) Separation is maintained between Class 1E divisions in accordance with the fire areas as identified in Table 3.3-3.	i) Inspections of the as-built Class 1E division electrical cables, as-built communication cables associated with only one division, and the as-built raceways that route the Class 1E divisional electrical cables and communication cables located in the fire areas identified in Table 3.3-3 will be conducted.	i.a) Results of the inspection will confirm that the separation between Class 1E divisions in the non-radiologically controlled area of the auxiliary building is consistent with Table 3.3-3.
796	3.3.00.07c.i.b	7.c) Separation is maintained between Class 1E divisions in accordance with the fire areas as identified in Table 3.3-3.	i) Inspections of the as-built Class 1E division electrical cables, as-built communication cables associated with only one division, and the as-built raceways that route the Class 1E divisional electrical cables and communication cables located in the fire areas identified in Table 3.3-3 will be conducted.	i.b) Results of the inspection will confirm that the separation between Class 1E divisions in the radiologically controlled area of the auxiliary building is consistent with Table 3.3-3.

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	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
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No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
			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.	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	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
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			<p>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 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.</p>	<p>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 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.</p>
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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	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
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			<p>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 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-</p>	<p>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 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</p>
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No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
			voltage power cables and below.	and a free air safety cable with low-voltage power cables and below.

802	3.3.00.07d.ii.c	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.c) 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	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.c) Within other plant areas inside the 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
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			<p>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 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-</p>	<p>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 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</p>
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No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
			voltage power cables and below.	and a free air safety cable with low-voltage power cables and below.
803	3.3.00.07d.iii.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: iii) Where minimum separation distances are not maintained, the circuits are run in enclosed raceways or barriers are provided.	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: iii.a) Where minimum separation distances are not met inside containment, the circuits are run in enclosed raceways or barriers are provided.
804	3.3.00.07d.iii.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: iii) Where minimum separation distances are not maintained, the circuits are run in enclosed raceways or barriers are provided.	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: iii.b) Where minimum separation distances are not met inside the non-radiologically controlled area of the auxiliary building, the circuits are run in enclosed raceways or barriers are provided.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
805	3.3.00.07d.iii.c	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: iii) Where minimum separation distances are not maintained, the circuits are run in enclosed raceways or barriers are provided.	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: iii.c) Where minimum separation distances are not met inside the radiologically controlled area of the auxiliary building, the circuits are run in enclosed raceways or barriers are provided.
806	3.3.00.07d.iv.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: iv) Separation distances less than those specified above and not run in enclosed raceways or provided with barriers are based on analysis	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: iv.a) For areas inside containment, a report exists and concludes that separation distances less than those specified above and not provided with enclosed raceways or barriers have been analyzed.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
807	3.3.00.07d.iv.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: iv) Separation distances less than those specified above and not run in enclosed raceways or provided with barriers are based on analysis	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: iv.b) For areas inside the non-radiologically controlled area of the auxiliary building, a report exists and concludes that separation distances less than those specified above and not provided with enclosed raceways or barriers have been analyzed.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
808	3.3.00.07d.iv.c	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: iv) Separation distances less than those specified above and not run in enclosed raceways or provided with barriers are based on analysis	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: iv.c) For areas inside the radiologically controlled area of the auxiliary building, a report exists and concludes that separation distances less than those specified above and not provided with enclosed raceways or barriers have been analyzed.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
809	3.3.00.07d.v.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: v) Non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is considered as associated circuits and subject to Class 1E requirements.	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: v.a) For areas inside containment, non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is treated as Class 1E wiring.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
810	3.3.00.07d.v.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: v) Non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is considered as associated circuits and subject to Class 1E requirements.	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: v.b) For areas inside the non-radiologically controlled area of the auxiliary building, non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is treated as Class 1E wiring.

No.	ITAAC No	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
811	3.3.00.07d.v.c	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: v) Non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is considered as associated circuits and subject to Class 1E requirements.	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: v.c) For areas inside the radiologically controlled area of the auxiliary building, non-Class 1E wiring that is not separated from Class 1E or associated wiring by the minimum separation distance or by a barrier or analyzed is treated as Class 1E wiring.
812	3.3.00.07e	7.e) Class 1E communication cables which interconnect two divisions are routed and separated such that the Protection and Safety Monitoring System voting logic is not defeated by the loss of any single raceway or fire area.	Inspections of the as-built Class 1E communication cables will be conducted.	Class 1E communication cables which interconnect two divisions are routed and separated such that the Protection and Safety Monitoring System voting logic is not defeated by the loss of any single raceway or fire area.