



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

August 14, 2020

Ms. Cheryl A. Gayheart
Regulatory Affairs Director
Southern Nuclear Operating Co., Inc.
3535 Colonnade Parkway
Birmingham, AL 35243

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 & 2 – INTEGRATED
INSPECTION REPORT 05000424/2020002 AND 05000425/2020002 AND
INDEPENDENT SPENT FUEL STORAGE INSTALLATION REPORT
07201039/2020001

Dear Ms. Gayheart:

On June 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Vogtle Electric Generating Plant, Units 1 & 2. On August 12, 2020, the NRC inspectors discussed the results of this inspection with Mr. Matt Horn and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Alan J. Blamey, Chief
Reactor Projects Branch 2
Division of Reactor Projects

Docket Nos. 05000424 and 05000425 and 07201039
License Nos. NPF-68 and NPF-81

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 & 2 – INTEGRATED
INSPECTION REPORT 05000424/2020002 AND 05000425/2020002 AND
INDEPENDENT SPENT FUEL STORAGE INSTALLATION REPORT
07201039/2020001 Dated August 14, 2020

DISTRIBUTION:

M. Kowal
S. Price
L. Gibson
Public
RidsNrrPmVogtleResource
RidsNrrDro Resource

ADAMS ACCESSION NUMBER: ML20227A002

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	DRP: RII	DRP: RII	DRP: RII	DRP: RII	
NAME	S.Temple	G.Eatmon	C.Safouri	A.Blamey	
DATE	8/13/2020	8/13/2020	8/13/2020	8/14/2020	

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000424 and 05000425 and 07201039

License Numbers: NPF-68 and NPF-81

Report Numbers: 05000424/2020002 and 05000425/2020002 and 07201039/2020001

Enterprise Identifier: I-2020-002-0056 and I-2020-001-0139

Licensee: Southern Nuclear Operating Co., Inc.

Facility: Vogtle Electric Generating Plant, Units 1 & 2

Location: Waynesboro, GA

Inspection Dates: April 01, 2020 to June 30, 2020

Inspectors: G. Eatmon, Sr. Resident Inspector
C. Safouri, Resident Inspector
S. Temple, Resident Inspector

Approved By: Alan J. Blamey, Chief
Reactor Projects Branch 2
Division of Reactor Projects

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Vogtle Electric Generating Plant, Units 1 & 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

PLANT STATUS

Unit 1 began the inspection period in Mode 2 as part of refueling outage cycle 22 (1R22) and returned to Rated Thermal Power (RTP) on April 5, 2020. Unit 1 operated at or near RTP for the remainder of the inspection period.

Unit 2 began the inspection period at RTP. On June 21, 2020, the unit was taken to Mode 3 for a maintenance outage in order to resolve Unit 2 Reactor Coolant Pump (RCP) #1 elevated vibrations. The unit was returned to RTP on June 25, 2020. Unit 2 operated at or near RTP for the remainder of the inspection period.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), resident inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time the resident inspectors performed periodic site visits each week and during that time conducted plant status activities as described in IMC 2515, Appendix D; observed risk significant activities; and completed on site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

REACTOR SAFETY

71111.01 - Adverse Weather Protection

Seasonal Extreme Weather Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated readiness for seasonal extreme weather conditions prior to the onset of seasonal hot temperatures for the following systems:

Ultimate Heat Sink
Main Condenser

Impending Severe Weather Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated the adequacy of the overall preparations to protect risk-significant systems from impending severe weather heavy thunderstorms and rain on April 23, 2020.

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (5 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Unit 1 Train 'A' and 'B' Motor Driven Auxiliary Feedwater (AFW) Pump, on April 1, 2020.
- (2) Unit 2 Train 'A' Emergency Diesel Generator (EDG), on April 13, 2020.
- (3) Unit 2 Train 'B' Centrifugal Charging Pump following Solid State Protection System testing, Response Time Testing (RTT), and Inservice Testing (IST), on April 14, 2020.
- (4) Unit 1 Train 'B' Nuclear Service Cooling Water (NSCW) after RTT, on May 17, 2020.
- (5) Unit 2 Train 'A' and 'B' Residual Heat Removal (RHR) following valve IST, on June 5, 2020.

71111.05 - Fire Protection

Fire Area Walkdown and Inspection Sample (IP Section 03.01) (7 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Fire Zone 16/18/24, Unit 1 Train 'A' and 'B' RHR Heat Exchanger rooms and Auxiliary Building Level C area, on April 1, 2020.
- (2) Fire Zone 4/5/9/10, Unit 1 Train 'A' and 'B' Containment Spray and RHR pump rooms, on April 2, 2020.
- (3) Fire Zone 145/146/160A/160B, Unit 1 Train 'A' and 'B' NSCW pump rooms and electrical tunnels, on April 6, 2020.
- (4) Fire Zone 71/76/77A/77B/78A/78B, Unit 1 Train 'A' and 'B' Battery and Emergency Switchgear rooms, on April 9, 2020.
- (5) Fire Zone 56A/56B/79A/79B/83/152, Unit 1 Train 'C' and 'D' Battery and Emergency Switchgear rooms, on April 9, 2020.
- (6) Fire Zone 143/161/163, Unit 2 Train 'A' EDG rooms and electrical tunnels, on April 13, 2020.
- (7) Fire Zone 49/52, Unit 2 Train 'A' and 'B' Auxiliary Component Cooling Water Heat Exchanger rooms, on April 27, 2020.

71111.06 - Flood Protection Measures

Inspection Activities - Internal Flooding (IP Section 03.01) (1 Sample)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) Unit 2 Train 'A' and 'B' Component Cooling Water (CCW) pump rooms, on April 16, 2020.

71111.07A - Heat Sink Performance

Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

- (1) Unit 1 Train 'A' CCW Heat Exchanger.

71111.11Q - Licensed Operator Regualification Program and Licensed Operator Performance

Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (1 Sample)

- (1) The inspectors observed and evaluated licensed operator performance in the Control Room during Unit 2 power descension (Mode 1) and ascension (Mode 3, 2, 1), on June 21, 2020, and June 24, 2020, respectively.

Licensed Operator Regualification Training/Examinations (IP Section 03.02) (1 Sample)

- (1) The inspectors observed and evaluated a simulator scenario consisting of loss of Spent Fuel Pool inventory, various transients, and a small to large break Loss of Coolant Accident on May 14, 2020.

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (2 Samples)

The inspectors evaluated the effectiveness of maintenance to ensure the following structures, systems, and components (SSCs) remain capable of performing their intended function:

- (1) Unit 1/2, NSCW unavailability performance criteria, on April 7, 2020.
- (2) Unit 1 Train 'A' Motor Driven AFW pump natural frequency vibration and oil sampling, on April 8, 2020.

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (4 Samples)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed;

- (1) Unit 2 NSCW Fan Phoenix risk modeling, on April 29, 2020.
- (2) Unit 1 Train 'A' CCW system outage with utilization of Risk Informed Completion Time (RICT), on May 26, 2020.
- (3) Unit 1 NSCW Motor #5 replacement, on June 2, 2020.
- (4) Unit 2 Emergent Issue on RCP #1 vibrations, on June 15, 2020.

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (5 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) Report of Defects and Noncompliance - Westinghouse Part 21 Notification for Control Rod Drive Mechanism thermal sleeve degradation, on April 1, 2020.
- (2) Report of Defects and Noncompliance - Schultz Electric Part 21 Notification for NSCW Pump Motors, on May 4, 2020.
- (3) Unit 2 Intermediate Stop Valve #3 failure to stroke, on June 1, 2020.
- (4) Unit 2 CCW system Operable but Degraded Nonconforming due to NRC-identified flood calculation issues, on June 3, 2020.
- (5) Unit 2 Train 'B' EDG Control Room Voltage Indication Failing Low, on June 15, 2020.

71111.18 - Plant Modifications

Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) SNC922254, Unit 1 AFW orifice replacement for the Turbine Driven AFW Pump and Motor Driven AFW Pumps, on April 2, 2020.

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (6 Samples)

The inspectors evaluated the following post maintenance test activities to verify system operability and functionality:

- (1) Unit 1 Train 'B' Motor Driven AFW planned system outage, on April 14, 2020.
- (2) Unit 1 Train 'A' Motor Driven AFW Pump following AFW Orifice Replacement, on April 29, 2020.
- (3) Unit 1 Electronically Operated Control Rod Drive Shaft Latching/Unlatching Tool after reinstallation from 1R22, on April 30, 2020.
- (4) Diesel Fire Pump (DFP) #1 planned system outage, on April 30, 2020.
- (5) Unit 1 Train 'A' Room Cooler Group 1 Fragnet, on May 7, 2020.
- (6) DFP #2 corrective action work, on June 8, 2020.

71111.20 - Refueling and Other Outage Activities

Refueling/Other Outage Sample (IP Section 03.01) (2 Samples)

- (1) The inspectors evaluated refueling outage 1R22 activities from April 1, 2020 to April 5, 2020. The inspectors completed inspection procedure Section C during this inspection period.
- (2) The inspectors evaluated Unit 2 maintenance outage activities related to RCP #1 elevated vibrations from June 21, 2020 to June 25, 2020.

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (1 Sample)

- (1) Unit 1 Train 'A' EDG fast start and hot restart, on April 28, 2020.

Inservice Testing (IP Section 03.01) (2 Samples)

- (1) Unit 1 Train 'A', 'B', and 'C' AFW Pressure Test, on April 22, 2020.
- (2) Unit 2 Train 'A' Safety Injection System valve IST, on June 30, 2020.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

BI01: Reactor Coolant System (RCS) Specific Activity Sample (IP Section 02.10) (2 Samples)

- (1) Unit 1 (April 1, 2019 – March 31, 2020)
- (2) Unit 2 (April 1, 2019 – March 31, 2020)

BI02: RCS Leak Rate Sample (IP Section 02.11) (2 Samples)

- (1) Unit 1 (April 1, 2019 – March 31, 2020)
- (2) Unit 2 (April 1, 2019 – March 31, 2020)

71152 - Problem Identification and Resolution

Semiannual Trend Review (IP Section 02.02) (1 Sample)

- (1) The inspectors reviewed the licensee's corrective action program for potential adverse trends in Quality Assurance (QA) Records that might be indicative of a more significant safety issue. The inspectors determined there is an adverse trend of QA Records not being complete, accurate, and/or available as required by 10 CFR 50, Appendix B, Criterion XVII, "Quality Assurance Records," and licensee programmatic requirements. The inspection report documents in total three minor violations associated with the regulatory requirements for QA records. Two minor violations are documented under Section 71152 and one minor violation is documented under Section 71153, all three reflecting the potential adverse trend related to QA records. The licensee captured this adverse trend in their Corrective Action Program under Condition Report (CR) 10719715.

Annual Follow-up of Selected Issues (IP Section 02.03) (3 Samples)

- (1) Review of work planning, management and control during routine operation, system outages and RICT application, specifically scoping work cycle meetings and evaluation, system outage for 2B EDG, Unit 1 Refueling Outage 22, and emergent COVID-19 impacts.

- (2) Unit 2 Loop 2 Train 'B' Main Steam Isolation Valve closure resulting in a Reactor Trip, Corrective Action Report 276561.
- (3) The inspectors reviewed the licensee's inspection and evaluation of qualified coatings using Licensee procedure NMP-MA-011-006, "Procedure for Coating Condition Assessments," for the Unit 1 Containment Liner during Refueling Outage 22.

The inspectors performed a material condition inspection of the containment liner coating, noting deficiencies for accessible areas followed by review of the licensee's results. The results of the coating inspection for the Containment Liner are quality assurance records and are retained for plant life. The inspectors determined that the licensee, in general, identified coating deficiencies accurately and in accordance with procedure, including the requirements to specifically document relevant information such as the inspector, observation type, and results. The inspectors identified that the licensee failed to create or retain records regarding the acceptability of the inspection results, and actions taken in connection with the deficiencies noted for Unit 1 during Refueling Outage 22.

Additionally, the licensee identified in CR 10704211 an irretrievable quality assurance record for the previous containment liner coating inspection for both Unit 1 in Refueling Outage 21 and Unit 2 in Refueling Outage 20.

71153 - Followup of Events and Notices of Enforcement Discretion

Event Report (IP Section 03.02) (1 Sample)

- (1) LER 05000425/2019-002-00, Microswitch failure causes closure of Main Steam Isolation Valve and subsequent Automatic Reactor Trip (ADAMS Accession No. ML19247C285). The inspectors determined that it was not reasonable to foresee or correct the cause discussed in the LER therefore no performance deficiency was identified.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

60855.1 - Operation of an Independent Spent Fuel Storage Installation at Operating Plants

Operation of an Independent Spent Fuel Storage Installation at Operating Plants (1 Sample)

- (1) The inspectors evaluated the licensee's activities related to long-term operation and monitoring of their independent spent fuel storage installation on April 30, 2020.

INSPECTION RESULTS

Minor Violation	71152
Minor Violation: The inspectors identified a performance deficiency of 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," for the failure to maintain records to furnish evidence of activities affecting quality. Specifically, the licensee failed to maintain the containment liner coating inspection results regarding "...the acceptability, and the action taken in connection with any deficiencies noted" for Unit 1 Refueling Outage 22. The licensee's inspection of the containment liner coating is described in procedure, NMP-MA-011-006, "Procedure for Coating Condition Assessments," which designates inspection of the	

containment coating liner as a quality assurance record. Section 6.0, "Records," of the procedure states that the results of the inspection and assessment of the containment liner coating is a quality assurance record required to be maintained for the lifetime of the plant.

Screening: The inspectors determined the performance deficiency was minor. This performance deficiency was screened as minor using Manual Chapter 0612, "Issue Screening," Appendix B, "Additional Issue Screening Guidance," and Appendix E, "Examples of Minor Issues," after all screening questions were answered "NO."

The performance deficiency has been entered the Corrective Action Program as CR 10719714.

Enforcement: This failure to comply with 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," constitutes a minor violation that is not subject to enforcement action in accordance with the NRC's Enforcement Policy.

Minor Violation	71152
-----------------	-------

Minor Violation: The licensee identified a performance deficiency of 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," for the failure to maintain retrievable records to furnish evidence of activities affecting quality. Specifically, the licensee failed to retain any inspection records of the coating condition inspection and assessment for Unit 1 Refueling Outage 21 and Unit 2 Refueling Outage 20. Licensee's procedure NMP-MA-011-006, "Procedure for Coating Condition Assessments," section 6.0, "Records," identifies the coating assessment as a quality assurance record, required to be maintained for the lifetime of the plant. Specifically, the procedure states that "(Coating) Condition Assessment Records...shall be submitted to the applicable site Document Control Department and maintained as an official QA record." Licensee procedure NMP-AD-025, "Quality Assurance and Non-Quality Assurance Records Administration," documented the missing quality assurance record in a condition report.

Screening: The inspectors determined the performance deficiency was minor. This performance deficiency was screened as minor using Manual Chapter 0612, "Issue Screening," Appendix B, "Additional Issue Screening Guidance" and Appendix E, "Examples of Minor Issues," after all screening questions were answered "NO."

The performance deficiency has been entered the Corrective Action Program as CR 10704211.

Enforcement: This failure to comply with 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," constitutes a minor violation that is not subject to enforcement action in accordance with the NRC's Enforcement Policy.

Minor Violation	71153
-----------------	-------

Minor Violation: The inspectors identified a performance deficiency of 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," for the failure to maintain records to furnish evidence of activities affecting quality for the results of the Unit 2 Reactor Trip on July 19, 2019. Specifically, 1006-C-D52-2019, "Reactor Trip Review," which was captured as a Quality Record in Documentum, the official record repository database, contained

approximately 19 pages of unreadable data associated with plant and system response. The unreadable portions of the record were able to be reproduced and corrected.

Screening: The inspectors determined the performance deficiency was minor. This violation was screened as minor using Manual Chapter 0612, Appendix B, "Additional Issue Screening Guidance," when all more-than-minor screening questions were answered "NO."

The performance deficiency has been entered into the Corrective Action Program as Condition Report 10717276 and corrected.

Enforcement: This failure to comply with 10 CFR Part 50, Appendix B, Criterion XVII, "Quality Assurance Records," constitutes a minor violation that is not subject to enforcement action in accordance with the NRC's Enforcement Policy.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On July 20, 2020, the inspectors presented the integrated inspection results to Mr. Drayton Pitts and other members of the licensee staff.
- On August 12, 2020, the inspectors discussed the corrective actions for single failure vulnerabilities identified in CR 10606308 with Mr. Matt Horn and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.01	Corrective Action Documents	10718800		
	Corrective Action Documents Resulting from Inspection	10704755, 10704790, 10704737		
	Engineering Changes	SNC1042051	U1 & U2 Low Vacuum Alarm and C-9 Interlock Setpoint Changes	0
	Engineering Evaluations	SNC1042259	C-9 Setpoint Change U1 & U2	08/27/2019
	Miscellaneous	NMP-GM-025	Site Certification for Summer Readiness	05/07/2020
	Procedures	11889-C	Severe Weather Checklist	27
		17019-1	Annunciator Response Procedures for ALB 19 on Panel 1B2 on MCB	29
		17019-2	Annunciator Response Procedures for ALB 19 on Panel 2B2 on MCB	27.1
71111.04	Drawings	1X4DB133-1	P&I Diagram, Nuclear Service Cooling Water System, System No. 1202	56
		1X4DB133-2	P&I Diagram, Nuclear Service Cooling Water System, System No. 1202	52
		1X4DB161-1	P&I Diagram, Auxiliary Feedwater System, Condensate Storage & Degasifier System, System No 1302	46
		1X4DB161-2	P&I Diagram, Auxiliary Feedwater System, System No 1302	29
		2X4DB116-1	P&I Diagram - Chemical & Volume Control System - System No. 1208	49.0
		2X4DB116-2	P&I Diagram - Chemical & Volume Control System - System No. 1208	32.0
		2X4DB119	P&I Diagram - Safety Injection System - System No. 1204	28.0
		2X4DB121	P&I Diagram - Safety Injection System - System No. 1204	50.0
		2X4DB122	P&ID Diagram Residual Heat Removal System No. 1205	54.0
		2X4DB170-1	PI&Diagram, Diesel Generator System, Train A, System No. 2403	43

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Miscellaneous		Daily Safety & Alignment Meeting	05/14/2020
			Plan of the Day	05/14/2020
	Procedures	11145-2	Diesel Generator Alignment	14.1
		11150-1	Nuclear Service Cooling Water System Alignment	18
		13006-2	Chemical and Volume Control System	99
		13011-2	Residual Heat Removal System	70
		13610-1	Auxiliary Feedwater System	53
		14802B-1	Train B NSCW Pump/Check Valve IST and Response Time Test	12.5
		14808B-2	Train B Centrifugal Charging Pump and Check Valve IST and Response Time Test	6.0
		14825-2	Quarterly Inservice Valve Test	102
		14980A-2	Diesel Generator 2A Operability Test	31.1
	Work Orders	SNC10556911		5/3/2020
71111.05	Calculations	X4C2301S310	VEGP SSEL and Safe Shutdown Fault Tree	5
		X4C2301S311	VEGP Multiple Spurious Operations Analysis	4.0
		X4C2301S312	Evaluation of Emergency Diesel Generator Capacity for Abnormal Loading Conditions Due to a Fire	1.0
		X4C2301S315	Circuit Analysis Calculation for Post Fire Safe Shutdown	2
		X4C2301S316	Post Fire Safe Shutdown Compliance Analysis	3
		X4C2301S317	Post Fire Safe Shutdown Manual Action Feasibility Study	2
	Corrective Action Documents Resulting from Inspection	10698568		
	Fire Plans	92749-2	Zone 49 - Auxiliary Building - Level 1, Train "A" ACCW Hx Room Fire Fighting Preplan	1
		92752-2	Zone 52 - Auxiliary Building - Level 1, Train "B" ACCW HX Fire Fighting Preplan	1
		92756A-1	Zone 56A - Control Building Level B Fire Fighting Preplan	0.2
		92756B-1	Zone 56B - Control Building Level B Fire Fighting Preplan	1.2
		92771-1	Zone 71 - Control Building Level B Fire Fighting Preplan	4.1
		92776-1	Zone 76 - Control Building - Level B Fire Fighting Preplan	2.1

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		92777A-1	Zone 77A - Control Building - Level B Fire Fighting Preplan	1.1
		92777B-1	Zone 77B - Control Building Level B Fire Fighting Preplan	1.2
		92778A-1	Zone 78A - Control Building Level B Fire Fighting Preplan	2.1
		92778B-1	Zone 78B - Control Building Level B Fire Fighting Preplan	1.2
		92779A-1	Zone 79A - Control Building Level B Fire Fighting Preplan	0.2
		92779B-1	Zone 79B - Control Building Level B Fire Fighting Preplan	1.2
		92783-1	Zone 83 - Control Building - Level B Fire Fighting Preplan	2.2
		92843-2	Zone 143 - Diesel Generator Building Electrical Tunnel A- Level B Fire Fighting Preplan	3
		92852-1	Zone 152 - Control Building - Level B Fire Fighting Preplan	3
		92861-2	Zone 161 - Diesel Generator Building Fire Fighting Preplan	1.1
		92863-2	Zone 163 - Diesel Generator Building - Train A DFO Day Tank Fire Fighting Preplan	0.2
	Procedures	92000-C	Fire Protection Program	27
		92040-C	Fire Protection Functionality and LCO Requirements	46.3
		92704-1	Zone 4 - Auxiliary Building Wing Area Fire Fighting Preplan	2.2
		92705-1	Zone 5 - Auxiliary Building - Level D Fire Fighting Preplan	4.2
		92709-1	Zone 9 - Auxiliary Building - Level D Fire Fighting Preplan	3.2
		92710-1	Zone 10 - Auxiliary Building Level D Fire Fighting Preplan	4.2
		92716-1	Zone 16 - Auxiliary Building RHR Heat Exchanger Train B Room Fire Fighting Preplan	3.2
		92718-1	Zone 18 - Auxiliary Building - Level C Fire Fighting Preplan	3.2
		92724-1	Zone 24 - Auxiliary Building - Level C Fire Fighting Preplan	5.0
		92845-1	Zone 145 - Tunnels 1T2A, 1T3A, and 1T5A Fire Fighting Preplan	1.3
		92846-1	Zone 146 - Tunnels 1T2B and 1T5B Fire Fighting Preplan	2.0
		92860A-1	Zone 160A - NSCW Pumphouse - Train A Fire Fighting Preplan	1
		92860B-1	Zone 160B - NSCW Pumphouse - Train B Fire Fighting Preplan	0.2
71111.06	Calculations	X6CXC-28	Flooding Analysis - Auxiliary Building, Level A	11
	Drawings	1X4DB147-2	P&I Diagram - Aux Bldg Flood Retaining Rooms Alarms & Drains - System No. 1218	9.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		2X4DB126	P&I Diagram - Waste Processing System - Liquid System No. 1901	27.0
		2X4DB145-3	P&I Diagram - Auxiliary Building & Misc. Drains - System No. 1215	14.0
		2X4DB145-5	P&I Diagram - Auxiliary Building & Misc. Drains - System No. 1215	12.0
		2X4DB145-6	P&I Diagram - Auxiliary Building & Misc. Drains - System No. 1215	14.0
		2X4DB147-2	P&I Diagram - Aux Bldg Flood Retaining Rooms Alarms & Drains - System No. 1218	8.0
	Procedures	11219-2	Auxiliary and Containment Buildings and Miscellaneous Drain Systems Alignment	27
		13219-2	Auxiliary and Containment Buildings and Miscellaneous Drain System	31.3
71111.07A	Corrective Action Documents	10711871, 10712138		
	Miscellaneous	NMP-ES-012-001	Visual Inspection Report of 1A CCW Heat Exchanger	05/29/2020
		RBD-V12-5069-1203	10CFR50.69 Categorization of the Component Cooling Water System	1
	NDE Reports	SNC814761	Eddy Current Inspection Results - Component Cooling Water Heat Exchanger 1A	05/28/2020
	Procedures	NMP-ES-012	Heat Exchanger Program	12.02
		NMP-ES-012-001	Inspection of Heat Exchangers	2.0
71111.11Q	Miscellaneous	V-RQ-SE-20204	2020 Segment 2 SM Choice	2.0
	Procedures	12004-2	Power Operation (Mode 1)	4.0
		13003-2	Reactor Coolant Pump Operation	52.1
		17008-2	Annunciator Response Procedures for ALB 08 on Panel 2A2 on MCB	15.3
71111.12	Calculations	V-RIE-MR-U00	Vogtle 1&2 Maintenance Rule Risk Ranking and Performance Criteria Assessment	2
	Corrective Action Documents	10693151, 10692582, 1069360, 277408, 1063278		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Corrective Action Documents Resulting from Inspection	10703555		
	Engineering Changes	SNC1083487	1A MDAFW Pump Structure Stiffening	3/14/2020
	Miscellaneous	11302P4003	1A MDAFW Oil Sample Analysis Report for Outboard Pump Bearing	3/27/2020
		11302P4003	1A MDAFW Oil Sample Analysis Report for Inboard Pump Bearing	3/27/2020
		11302P4003M01	1A MDAFW Oil Sample Analysis Report for Outboard Motor Bearing	3/27/2020
		11302P4003M01	1A MDAFW Oil Sample Analysis Report for Inboard Motor Bearing	3/27/2020
		MREP2019-12	Maintenance Rule Expert Panel Meeting #2019-12	07/10/2019
		RBA-20-003-V	Risk-Based Analysis: RBA-20-003-V	04/24/2020
	Procedures	NMP-ES-074-006	Fleet Lubrication Instruction	4
71111.13	Corrective Action Documents	10716920, 10716998, 10716999		
	Miscellaneous		Plan of the Day	05/29/2020
			Phoenix A4 Risk	05/26/2020
			Phoenix A4 Risk	05/29/2020
			Unit 1 Control Room Logs	06/02/2020
			Phoenix A4 Risk	06/02/2020
			Plan of the Day	06/02/2020
			Plan of the Day	05/26/2020
		NMP-DP-001	High Risk Planning Worksheet	16.0
		NMP-GM-042	Technical Decision Making Form - U2 RCP #1 2R21 Outage Work	05/08/2020
		NMP-OS-003-F01	ODMI VNP2-20-001 U2 RCP1 Vibrations	3
		PWROG-16069	Reactor Coolant Pump Seal and Motor Operating Parameters - Phase III	0
	Procedures	NMP-DP-001	Operational Risk Awareness	16.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		NMP-GM-031-002-F01	RICT Projection Details	2.0
71111.15	Calculations	SNC1096341-01	Evaluation of Flooding Levels in the CCW Pump Rooms from Breaks in Opposite Train Rooms	05/15/2020
	Corrective Action Documents	10677033, 277188, 1063131, 10704907, 10712447, 10715645, 277804		
	Corrective Action Documents Resulting from Inspection	1067495, 10708494		
	Drawings	1X6AB02-00109	Coordinates & Elevation of Closure Head Penetrations	2.0
		1X6AB02-00110	Record Data Sheet	2.0
		2X3D-AA-K01A	One Line Diagram - Diesel Generators 2A & 2B Relays & Meters	12.0
		2X6AB02-00140	Unit 2 Closure Head As-Builts	3.0
	Miscellaneous		Unit 2 Outage 20 Thermal Sleeve Data	
			Unit 1 Outage 21 Thermal Sleeve Data	
		1X4AF02-00093-8	Instruction Manual Nuclear Service Cooling Water Pump	8
		ANSI/ANS-56.11-1988	Design Criteria for Protection Against the Effects of Compartment Flooding in Light Water Reactor Plants	
		LTR-RIDA-18-277	Evaluation of Thermal Sleeve Flange Wear Condition and Recommendation	09/27/2018
		LTR-RIDA-19-60	Evaluation of Vogtle Unit 2 Thermal Sleeve Flange Wear Conditions and Recommendations	03/21/2019
		MWO SNG10097724	Class 1E Motor Repair Job Package, Repair Shop Job Number 513718	07/20/2015
		MWO SNG27007-0035	Class 1E Motor Repair Job Package, Repair Shop Job Number 49680	03/06/2014
		NSAL-20-1	Reactor Vessel Head Control Rod Drive Mechanism	02/14/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures		Penetration Thermal Sleeve Corss-Sectional Failure	
		PWROG-16003-P	Evaluation of Potential Thermal Sleeve Flange Wear	2
		14980B-2	Diesel Generator 2B Operability Test	30.1
	Work Orders	SCL00160	Maintenance Requirements and Special Instructions for General Electric Frame 6338 Motor	8.2
		SNC131625	NSCW 10 YR Major Motor Refurbishment Disassemble/Clean	01/18/2012
71111.18	Calculations	X4C1302V15	AFW Hydraulic Analysis	3
	Corrective Action Documents Resulting from Inspection	10710726	Unit 1 TDAFW Room Delay Door difficult to Operate	5/22/2020
	Engineering Changes	SNC922254	U1 AFW Orifice Replacement	2
	Work Orders	SNC922254	Advanced Work Authorization Form for Engineering Change Number: DCP SNC922254	1
71111.19	Corrective Action Documents	10582508, 10702730, 10715307		
	Corrective Action Documents Resulting from Inspection	10706804, 277823, 10711382	1B MDAFW Fragnet 4/14/20	
	Engineering Changes	SNC922254	U1 AFW Orifice Replacement	03/27/2020
	Miscellaneous		Daily Safety & Alignment Meeting	04/30/2020
			Plan of the Day	04/14/2020
			Plan of the Day	05/07/2020
			Plan of the Day	04/30/2020
	Procedures	13903-C	Fire Protection System Opeation	46.4
		14807B-1	Train B Motor Driven Auxiliary Feedwater Pump / Check Valve Inservice and Response Time Test	5.1
		14951-C	Fire Suppression System Operability Tests (FSAR Fire Protection Surveillance)	34

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		27585-C	Diesel Engine Driven Fire Pump CFP11E Series Inspection	5.1
		92040-C	Fire Protection Functionality and LCO Requirements	46.3
		93141-C	Control Rod Drive Shaft Latching and Drag Test Data Sheet, Data Sheet 5	03/23/2020
		93141-C	Control Rod Drive Shaft Latch Verification, Data Sheet 6	03/23/2020
		931410-C	Electrically Operated CRDS Latching/Unlatching Tool	1
		NMP-MA-010	Erecting, Modifying, and Disassembling Scaffolding	12.0
	Work Orders	SNC1029743, SNC922254, SNC777146, SNC898661, SNC855658, SNC895749, SNC930133, SNC966642, SNC995732, SNC1068985, SNC908146, SNC999393, SNC942721, SNC974855, SNC1011038, SNC1012572, SNC1039587, SNC1068381		
71111.20	Miscellaneous		Entrant's Daily Tool Log	03/12/2020
			Shift Operations work schedule	04/27/2020
	Procedures	10032-C	Outage Risk Assessment Monitoring	03/08/2020
		10032-C	Outage Risk Assessment Monitoring	03/09/2020
		12003-2	Reactor Startup (Mode 3 to Mode 2)	3.1
		12004-2	Power Operation (Mode 1)	4.0
		13003-2	Reactor Coolant Pump Operation	52.2
		NMP-AD-016-004-F01	Security - Quarterly Review of Work Hours	1.2

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		NMP-AD-016-004-F01	Operations - Quarterly Review of Work Hours	1.2
71111.22	Corrective Action Documents	10686257, 10690899, 10687515, 10705430, 10705826, 10719246		
	Miscellaneous	AX4AK01-20052-1	Emergency Diesel Generator Operation & Calibration 701 Digital Speed Control for Reciprocating Engines	07/09/1996
	Procedures	14825-2	Quarterly Inservice Valve Test	102
		14825-2	Quarterly Inservice Valve Test	99
		84003-C	System Operating Pressure Test, Unit 1, TDAFW Pump	3/19/2020
		84003-C	System Operating Pressure Test, Unit 1, AFW system, Train A	3/20/2020
		84003-C	System Operating Pressure Test, Unit 1, AFW system, Train B	3/20/2020
		84003-C	Pressure Testing of Piping and Components	9.4
	Work Orders	SNC1056609, SNC1067043		
71151	Miscellaneous		U1 Cycle 22 UID Assessment April 2019 - March 2020	
			U2 Cycle 21 UID Assessment April 2019 - March 2020	
			RCS DEI Data April 2019 - March 2020	
		NEI 99-02	Regulatory Assessment Performance Indicator Guideline	7
71152	Corrective Action Documents	10616930, 10621114, 10632946, 10636146, 10653676, 1065037, 10670569, 10671610, 10690609, 10693041,		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		10709801, 10717090, 10704211, 10619056, 10634755, 10630238, 10630231, 10630409, 10630260, 10638064, 10630323, 1048496, 1050235, 276561, 1052813		
	Corrective Action Documents Resulting from Inspection	10717276, 10719714		
	Miscellaneous		T+1 Meeting Notes for Work Week 2007: 2/10/2020-2/16/2020	
			Gaps for Work Week 2006 (2/3/2020-2/9/2020)	
			Agenda for T+1 (Critique) for Work Week (Code) 2019	5/18/2020
			Agenda for T+1 (Critique) for Work Week (Code) 2017	5/4/2020
			Gaps for Work 2B EDG AOT (1/27/20-1/29/20)	
			T+1 Meeting Notes for Work Week 2004: 1/20/2020-1/26/2020	
			Gaps for Work Week 2004 (1/20/2020-1/26/2020)	
			T+1 Meeting Notes for Work Week 2005: 1/27/2020-2/2/2020	
			Agenda for T-5 (Readiness Review - Schedule Freeze)	
			Agenda for T-9 (Scope Freeze)	
			T-16 (Select Scope)	
			T-24 (Base Scope) for Work Week	
			Gaps for Work Week 2005 (1/27/2020 - 2/2/2020)	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			T+1 Meeting Notes for Work Week 2006: 2/3/2020-2/9/2020	
			Agenda for T-2 (Execution Readiness Challenge Board) for Work Week (Code) 2023	5/19/2020
			Gaps for Work Week 2007 (2/10/2020 - 2/16/2020)	
		AX4AR17-00189	Main Steam Isolation Valve Maintenance Manual	14.0
		NMP-GM-006-GL06	System Outage Guidance, Attachment 3, System Outage Critique for 2B2403DGAOT	6
	Procedures	26854-C	Main Steam Isolation Valve Actuator Maintenance	45.0
		NMP-ES-006	Preventive Maintenance Implementation and Continuing Equipment Reliability Improvement	12.0
		NMP-GM-005-005	Human Performance Clock Reset Criteria	5.1
	Work Orders	SNC1035937, SNC385403		
71153	Corrective Action Documents	10630238, 276561		
	Drawings	2X3D-BC-Q01X	Elementary Diagram Main Steam System 2Hv-3016B	12.0
		2X4AR17-00217	Generator Assembly Actuator	6.0
		2X4AR17-00219-1	Generator Assembly Actuator Sheet 001	5
		2X4AR17-00219-2	Generator Assembly Actuator Sheet 002	5
		2X4AR17-00224	Air & Hydraulic System Schematic	K
	Miscellaneous	10006-C-DS1-2019	Reactor Trip Review	07/19/2019
		10006-C-DS2-2019	Reactor Trip Review	07/19/2019
		AX4AR17-00189	Main Steam Isolation Valve Maintenance Manual	14.0