



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

May 6, 2021

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

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT – INTEGRATED INSPECTION REPORT
05000321/2021001 AND 05000366/2021001

Dear Ms. Gayheart:

On March 31, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Edwin I. Hatch Nuclear Plant. On April 22, 2021, the NRC inspectors discussed the results of this inspection with Sonny Dean and other members of your staff. The results of this inspection are documented in the enclosed report.

No NRC-identified or self-revealing findings were identified during this inspection.

A licensee-identified violation which was determined to be of very low safety significance is documented in this report. We are treating this violation as a non-cited violation (NCV) consistent with Section 2.3.2 of the Enforcement Policy.

If you contest the violation or the significance or severity of the violation documented in this inspection report, 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 Edwin I. Hatch Nuclear Plant.

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. 05000321 and 05000366
License Nos. DPR-57 and NPF-5

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT – INTEGRATED INSPECTION REPORT
05000321/2021001 AND 05000366/2021001 dated May 6, 2021

DISTRIBUTION:

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

ADAMS ACCESSION NUMBER: ML21126A020

<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	RII/DRP	RII/DRP			
NAME	N. Staples	A. Blamey			
DATE	05/05/2021	05/05/2021			

OFFICIAL RECORD COPY

**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000321 and 05000366

License Numbers: DPR-57 and NPF-5

Report Numbers: 05000321/2021001 and 05000366/2021001

Enterprise Identifier: I-2021-001-0067

Licensee: Southern Nuclear Operating Co., Inc.

Facility: Edwin I. Hatch Nuclear Plant

Location: Baxley, GA

Inspection Dates: January 01, 2021 to March 31, 2021

Inspectors: J. Hickman, Resident Inspector
B. Kellner, Senior Health Physicist
M. Magyar, Reactor Inspector
A. Nielsen, Senior Health Physicist
W. Pursley, Health Physicist
D. Simpkins, Senior Technical Training Program Specialist
R. Smith, Senior Resident Inspector
N. Staples, Senior Project Engineer

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 Edwin I. Hatch Nuclear Plant, 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. A licensee-identified non-cited violation is documented in report Section: 71124.07.

List of Findings and Violations

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

Additional Tracking Items

Type	Issue Number	Title	Report Section	Status
LER	05000321/2020-001-00	LER 2020-001-00 for Edwin I. Hatch Nuclear Plant Unit 1, 1A EDG Inoperable Due to Water in the Day Tank	71153	Closed

PLANT STATUS

Unit 1 began the inspection period at 100 percent rated thermal power (RTP). On January 9, 2021, the unit was down powered to 70 percent RTP to perform a sequence exchange and turbine valve testing and on January 10, 2021, the unit was returned to 100 percent RTP. On March 20, 2021, the unit was down powered to 70 percent RTP to perform a sequence exchange, scram time testing, turbine valve testing and attempted to repair a steam leak in the condenser bay and on March 21, 2021, the unit was returned to 100 percent RTP. On March 22, 2021, the unit was down powered to 93.5 percent RTP for rod pattern adjustment and was returned to 100 percent RTP on the same day and operated there for the remainder of the inspection period.

Unit 2 began the inspection period at 91 percent RTP in its end cycle coast down for the winter refueling outage. On January 7, 2021, the unit was down powered to 70 percent RTP to remove the fourth stage feed water heaters from service, this was to achieve an increase in RTP due to removing feed water heating. On January 7, 2021, the Unit returned to 97 percent RTP and continued the end cycle coast down to the refueling outage. On February 8, 2021, the operators shut down the unit for the scheduled refueling outage. The unit was restarted on March 7, 2021 and reached approximately 100 percent RTP on March 13, 2021. On March 19, 2021, the unit was down powered to 98 percent RTP to perform the final rod pattern adjustment after startup was returned to 100 percent RTP on the same day. On March 26, 2021, the unit was down powered to 93 percent RTP due to isolation of the fourth stage B high pressure feed water heater and was returned to 100 percent RTP on March 29, 2021 and operated there 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 Disease 2019 (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; conducted plant status activities as described in IMC 2515, Appendix D, "Plant Status;" 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 portions 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

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 for a tornado watch in the area on February 15 and 18, 2021.

External Flooding Sample (IP Section 03.03) (1 Sample)

- (1) The inspectors evaluated that flood protection barriers, mitigation plans, procedures, and equipment are consistent with the licensee's design requirements and risk analysis assumptions for coping with external flooding on February 23, 2021.

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (4 Samples)

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

- (1) Alignment of 2C Emergency Diesel Generator (EDG) following 34SV-R43-003-2 Diesel Generator 2C Monthly Test, 34SO-R43-001-2, Diesel Generator Standby AC System, Attachments 2 and 3, Version 30.8 on January 19, 2021.
- (2) Alignment of 2B Core Spray (CS) during refueling outage, the system was relied on for Emergency Reactor Pressure Vessel inventory control on 02/10/2021.
- (3) Alignment of 2A CS during refueling outage, the system was relied on for emergency reactor pressure vessel inventory control on 02/10/2021.
- (4) Alignment of 1A EDG following 34SV-R43-001-1 Diesel Generator 1A Monthly Test, 34SO R43-001-1, Diesel Generator Standby AC System, Attachments 1, 2 and 3, Version 29.4, on March 11, 2021.

Complete Walkdown Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated system configurations during a complete walkdown of the Unit 2 Primary Containment Purge & Inerting System on March 23, 2021.

71111.05 - Fire Protection

Fire Area Walkdown and Inspection Sample (IP Section 03.01) (6 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) Unit 1/2 Station Battery Rooms, Drawing A-43965 Sheets 011, 012, 017, and 018 on January 14, 2021.
- (2) Unit 1 EDG 1C and Switchgear Room 1G, drawings A43966 Sheets 8A, 8B, 9A and 9B on January 20, 2021.

- (3) Unit 2 600V Switchgear Rooms 2C and 2D Drawing A-43956 Sheets 37A and 38A, on January 27, 2021.
- (4) Unit 1 Northeast Residual Heat Removal (RHR) and CS pump room, and the control rod drive (CRD) and the High Pressure Coolant Injection (HPCI) Pump room Drawing A-43965 Sheets 53A, 54A, 55A, 53B, 54B and 55B, on February 3, 2021.
- (5) Unit 1 Reactor Core Isolation Cooling (RCIC) Pump and Turbine Room, and the Southeast RHR and CS pump room, Drawings A43965 Sheets 51A, 52A, 51B and 52B on February 3, 2021.
- (6) Unit 1 Reactor Building (RB) 130 foot elevation including CRD Hydraulic Units, various switchgears, drawing 43965 Sheets 51A, 51B, 52A, 52A, 53A, 53B, 54A, 54B, 55A and 55B on February 2, 2021.

71111.06 - Flood Protection Measures

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

The inspectors evaluated internal flooding mitigation protection in the:

- (1) Unit 2, RCIC and HPCI rooms on March 19, 2021.

71111.07A - Heat Sink Performance

Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

- (1) 1A EDG associated heat exchangers: jacket water cooler, lube oil cooler and scavenger air cooler.

71111.08G - Inservice Inspection Activities (BWR)

BWR Inservice Inspection Activities Sample - Nondestructive Examination and Welding Activities (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated BWR Non-destructive Testing by reviewing the following examinations from February 22 – 26, 2021:
 - Ultrasonic Testing (UT)
 - a. 2B11/2N8A, A Loop JP INSTR Nozzle to Shell, ASME Class 1 (reviewed)
 - b. 2B11/2N8A (IR), A Loop JP INSTR Nozzle IR, ASME Class 1 (reviewed)
 - Penetrant Testing (PT)
 - a. 2B31-1RC-2A-1-RI, BC to Pipe, ASME Class 1 (reviewed)
 - b. 2E11F073B FW3, RHRSW to RHR Crosstie (FLEX), ASME Class 3 (reviewed)

71111.11Q - Licensed Operator Requalification 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 plant shutdown, they observed power decrease by reducing Reactor Recirculation Flow to minimum, inserting control rods to 20 percent RTP, followed by a Main Turbine trip, and the insertion of a Manual Reactor SCRAM to complete the shutdown. They then observed the operating crew establish a controlled cooldown rate within Technical Specification (TS) limits, for the Unit 2 Refueling Outage, on February 7 and 8, 2021.

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

- (1) The inspectors observed and evaluated License Operator Requalification Program (LORP) Scenario H-LTC-SE-50322, "Shutdown Cooling (SDC) Operation / Loss of SDC / SOER 09-1," for one team during simulator training on January 12, 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) Review of the Unit 2 Drywell Chillers system 2P64 due to unplanned trips during 2020, on March 24, 2021.
- (2) Review of the Unit 1 and 2 FLEX Equipment due to Operating Experience Smart Sample 2020/01, Flex Equipment Design Control, Maintenance and Testing, on March 31, 2021.

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (5 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 elevated risk due to the HPCI system outage on January 13, 2021.
- (2) Unit 1 elevated risk due RHR Loop A out of service to perform a repair on 2E11-F047A heat exchanger inlet valve, on January 27, 2021.
- (3) Unit 2 elevated risk as the unit entered refueling outage 26, on February 7, 2021
- (4) Unit 1 and Unit 2 evaluated risk due to the Plant Service Water (PSW) underground pipe leak and repairs which resulted in 2C EDG inoperability, on March 1, 2021.
- (5) Unit 1 elevated risk due to the liner replacement on 1A EDG on March 22, 2020.

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (7 Samples)

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

- (1) Unit 2 HPCI Pump inoperable due to high Comprehensive Pump Test (CPT) differential pressure ratio on January 6, 2021.
- (2) Unit 2 Main Turbine Emergency Overspeed Trip Protection loss of ability to test the sensors on June 6, 2020.
- (3) Unit 1 EDG 1A, scavenging air is leaking from the air receiver covers 2C and 3C due to missing gasket material on January 25, 2021.
- (4) Unit 1 Scaffold Impact on SCRAM Discharge Volume Drain Isolation Line and Scaffold over High Energy Line Break (HELB) grating on February 4, 2021.
- (5) Unit 2 Drywell Air Lock and Equipment Hatches Seal Grease on the Sealing Surfaces Potential Effect on Local Leak Rate Test Results, on February 12, 2021.
- (6) Unit 2 EDG 2C trip during monthly testing, on March 11, 2021.
- (7) Unit 2 NE Diagonal room coolers after 2T41B003A room cooler fan rotor assembly catastrophically failed, on March 15, 2021.

71111.18 - Plant Modifications

Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (2 Samples)

The inspectors evaluated the following temporary or permanent modifications:

- (1) SNC632608, Unit 2 Main Control Room Feedwater Controller replacement due to current controllers being obsolete.
- (2) SNC1010116CCP, Unit 2, Change Power Supply Breaker Micro Versa Trip settings due to breaker coordination issues associated with National Fire Protection Association (NFPA) 805 requirements.

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (10 Samples)

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

- (1) 34SV-P41-001-1, Plant Service Water Operability, Version 15.2 following replacement of the 1C Plant Service Water Pump Motor, Work Order SNC556025, on January 10, 2021.
- (2) 34SV-R43-001-2, Diesel Generator 2A Monthly Test, Version 29.4 following the replacement of expansion joint 2P41D002D, Work Order SNC1139786, on January 29, 2021.
- (3) 34SV-R43-003-1, Diesel Generator 1C Monthly Test, Version 20.2 following repair of a lube oil leak, Work Order SNC137368, on February 5, 2021.
- (4) 42SV-TET-001-2, Primary Containment Periodic Type B & C Leakage Test, Version 37.2 following the replacement of 2T48-F320 containment vent and purge valve, on February 26, 2021.
- (5) 34SV-B21-011-2, Automatic Depressurization System Logic System Functional Test, Version 1.1 following safety relief valve maintenance, on February 26, 2021.

- (6) NMP-ES-024, Nondestructive Examination and Certification Processes, Version 7.0 following 2C EDG Plant Service Water pipe repairs, on March 2, 2021.
- (7) 57CP-C51-002-0, Intermediate Range Monitor (IRM) Detector Testing, Version 3.3 following the installation of new IRM E detector, on February 26, 2021.
- (8) 42SV-C11-003-0, Control Rod SCRAM Timing, Version 11.1, following the replacement of 20 control rod drive mechanisms, on March 2, 2021.
- (9) 34SO-C51-001-0, Tip System Operation and Local Power Range Monitor (LPRM) Calibration, Version 19.4, following the replacement of three LPRM strings during the Unit 2 refueling outage, on March 10 and 16, 2021.
- (10) 52SV-R43-001-0, Diesel, Alternator, and Accessories Inspection, Version 31.21, following the liner replacement on 1A EDG on March 28, 2021.

71111.20 - Refueling and Other Outage Activities

Refueling/Other Outage Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated Unit 2 refueling outage 26 activities from February 7, 2020 to March 9, 2021.

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (7 Samples)

- (1) 34SV-R43-003-1, Diesel Generator 1C Monthly Test, Ver. 20.2 on January 13, 2021.
- (2) 34SV-E21-001-1, Core Spray Pump 1A Pump Operability, Version 24.2, January 26, 2021.
- (3) 34SV-E11-004-1, RHR Service Water Pump Operability, Version 22.1, on February 4, 2021.
- (4) 34SV-E41-010-2, HPCI Logic Function System Test, Version 1.2, on February 10, 2021 and March 5, 2021.
- (5) 34SV-E51-010-2, RCIC Logic Function System Test, Version 1.5, on February 10, 2021.
- (6) 34SV-R43-020-2, Diesel Generator 2A Loss of Coolant Accident/Loss of Offsite Power (LOCA/LOSP) Logic Function System Test, Version 4.0, on February 12, 2021.
- (7) 34SV-T48-002-2, Suppression Chamber to Drywell Vacuum Breaker Operability And Containment Purge/Vent Valve Position Check, Version 5.8, on March 4, 2021.

Inservice Testing (IP Section 03.01) (1 Sample)

- (1) 34SV-E41-002-2, HPCI Pump Operability CPT, Version 39.1 on January 6, 2021.

Containment Isolation Valve Testing (IP Section 03.01) (1 Sample)

- (1) 42SV-TET-001-0, Local leak Rate Testing (LLRT) Testing Methodology, Version 13.0, on 2E11-F016B RHR Containment Spray Outboard Isolation Valve on February 17, 2021.

FLEX Testing (IP Section 03.02) (1 Sample)

- (1) SNC1060565, Mode 5 Core Cooling Pump Functional Test on January 11, 2021.

RADIATION SAFETY

71124.01 - Radiological Hazard Assessment and Exposure Controls

Radiological Hazard Assessment (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated how the licensee identifies the magnitude and extent of radiation levels and the concentrations and quantities of radioactive materials and how the licensee assesses radiological hazards.

Instructions to Workers (IP Section 03.02) (1 Sample)

The inspectors evaluated instructions to workers including radiation work permits used to access high radiation areas.

- (1)
- RWP 21-2014, Torus Diving
 - RWP 21-2205, Vessel Disassembly/Reassembly
 - RWP 21-2608, Control Rod Drive (CRD) Exchange
 - Radioactive Material Labels in the U2 Reactor Building, Refueling Floor, and Turbine Building

Contamination and Radioactive Material Control (IP Section 03.03) (2 Samples)

The inspectors evaluated licensee processes for monitoring and controlling contamination and radioactive material.

- (1) Personnel and equipment released from the Radiation Controlled Area (RCA)
(2) Excavated earth released from the protected area (PA)

Radiological Hazards Control and Work Coverage (IP Section 03.04) (3 Samples)

The inspectors evaluated in-plant radiological conditions during facility walkdowns and observation of radiological work activities.

- (1) Drywell Head Lift
(2) Reactor Head Lift
(3) Fuel Movement

High Radiation Area and Very High Radiation Area Controls (IP Section 03.05) (2 Samples)

The inspectors evaluated licensee controls of the following High Radiation Areas and Very High Radiation Areas:

- (1) U2 Reactor Building
(2) Turbine Building

Radiation Worker Performance and Radiation Protection Technician Proficiency (IP Section 03.06) (1 Sample)

- (1) The inspectors evaluated radiation worker and radiation protection technician performance as it pertains to radiation protection requirements.

71124.02 - Occupational ALARA Planning and Controls

Radiological Work Planning (RWP) (IP Section 03.01) (4 Samples)

The inspectors evaluated the licensee's radiological work planning for the following:

- (1) ALARA Plan for RWP 21-2205, U2 Reactor Disassembly/Reassembly
- (2) ALARA Plan for RWP 20-1602, Repair 1E11F050A
- (3) ALARA Plan for RWP 20-1620, U1 Drywell Scaffolding Work
- (4) 2021 Annual Site ALARA Goal Estimate

Verification of Dose Estimates and Exposure Tracking Systems (IP Section 03.02) (4 Samples)

The inspectors reviewed the following as low as reasonably achievable evaluations of radiological outcomes:

- (1) RWP 20-1620 Post Job Review - Drywell/Steam Chase Install/Remove-Shielding, Tents & Scaffolds & Support Activities
- (2) RWP 20-1205 Post Job Review - Refuel Floor Vessel Disassembly/Reassembly, Cavity/Dryer Separator Work & Support
- (3) Unit One H1R29 Outage ALARA Summary Report
- (4) 2019 Plant Hatch Annual ALARA Report

Implementation of ALARA and Radiological Work Controls (IP Section 03.03) (3 Samples)

The inspectors reviewed as low as reasonably achievable practices and radiological work controls for the following work activities:

- (1) RWP 21-2014, Torus Diving
- (2) RWP 21-2205, Vessel Disassembly/Reassembly
- (3) RWP 21-2608, CRD Exchange

Radiation Worker Performance (IP Section 03.04) (1 Sample)

The inspectors evaluated radiation worker and radiation protection technician performance during:

- (1) Torus Diving
Vessel Disassembly/Reassembly
CRD Exchange

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

Permanent Ventilation Systems (IP Section 03.01) (1 Sample)

The inspectors evaluated the configuration of the following permanently installed ventilation systems:

- (1) Main Control Room Habitability Filter Train

Temporary Ventilation Systems (IP Section 03.02) (1 Sample)

The inspectors evaluated the configuration of the following temporary ventilation systems:

- (1) HEPA filtration systems used on the refuel floor

Use of Respiratory Protection Devices (IP Section 03.03) (1 Sample)

- (1) Observed use of powered air-purifying respirators during drywell head lift

Self-Contained Breathing Apparatus (SCBA) for Emergency Use (IP Section 03.04) (1 Sample)

- (1) Observed storage of SCBA designated for emergency use and discussed preventative maintenance with licensee technicians. Reviewed breathing air testing records.

71124.04 - Occupational Dose Assessment

Source Term Characterization (IP Section 03.01)

The inspectors evaluated licensee performance as it pertains to radioactive source term characterization.

External Dosimetry (IP Section 03.02)

The inspectors evaluated licensee's external dosimetry program

Internal Dosimetry (IP Section 03.03) (3 Samples)

The inspectors evaluated the internal dosimetry program implementation as follows:

- (1) In-vivo analysis results for worker ID#22939 Dated 02/27/2019.
- (2) Reviewed licensee position paper for exemption from in-vitro urinalysis in cases where tritium concentrations in the water in the torus is below 1E-2 microcuries per milliliter.
- (3) In-vivo analysis results for worker ID#19564 Dated 06/21/2020.

Special Dosimetric Situations (IP Section 03.04) (3 Samples)

The inspectors evaluated the following special dosimetric situation:

- (1) Licensee's records for two declared pregnant workers.
- (2) Licensee's implementation of extremity monitoring for "under vessel" work for two workers.

- (3) Licensee's implementation of requirements for monitoring EDE with multiple dosimeters during diving activities in the unit 2 spent fuel storage area for two workers.

71124.05 - Radiation Monitoring Instrumentation

Walkdowns and Observations (IP Section 03.01) (7 Samples)

The inspectors evaluated the following radiation detection instrumentation during plant walkdowns:

- (1) Portable survey instruments (ion chamber, friskers, telepoles) ready for use located at the RP counting lab.
- (2) Tennelec and Sodium Iodide (NaI) scaler low background counter located at the RP counting lab.
- (3) Argos-5AB and Gem-5 personnel contamination monitors located at the main radiologically controlled area exit and the protected area exit.
- (4) Gamma spectroscopy units located in the Chemistry counting room.
- (5) Whole body counting system located in the dosimetry office.
- (6) SAM-12 small article monitors located at the RCA exit.
- (7) Area Radiation Monitors (ARMs) located in various areas throughout the RCA.

Calibration and Testing Program (IP Section 03.02) (11 Samples)

The inspectors evaluated the calibration and testing of the following radiation detection instruments:

- (1) Serial Number (S/N) 322210, MPL #: D21-N1960, Ludlum Model 2200 Scaler with NaI detector, 12/2/2020
- (2) S/N 268, MPL #: D21-N1931, Thermo-Eberline SAM-12, 12/12/2021
- (3) S/N 718A, MPL #: D21-N1487, Thermo-Eberline Model RM-25 countrate meter, 5/10/2019
- (4) S/N 706, MPL #: D21-N1514, Thermo-Eberline Model RM-25 countrate meter, 6/3/2019
- (5) S/N 1483/725680, MPL #: D21-N1646, Thermo-Eberline Model ASP-2E with NRD HD neutron detector, 11/3/2019 and 12/9/2020
- (6) S/N 3569, MPL #: D21-N1633, Bicorn Electra 1B/AP5BD alpha countrate meter, 1/17/2018 and 2/18/2019
- (7) S/N 7108, MPL #: D21-N180, Eberline Model E-120 countrate meter, 12/2/2019 and 12/4/2020
- (8) S/N 709, MPL #: D21-N1137, Eberline Model RO-20 Ion Chamber, 7/2/2020
- (9) S/N 5681, MPL #: D21-N1733, Eberline Model RO-20 Ion Chamber, 7/2/2020
- (10) S/N 42123-2, MPL #: D21-N1380, automatic Tennelec low background counter, 7/1/2020
- (11) S/N 1301-003, MPL #: D21-N1905, Canberra ARGOS-5AB personnel contamination monitor, 11/24/2020

Effluent Monitoring Calibration and Testing Program Sample (IP Sample 03.03) (3 Samples)

The inspectors evaluated the calibration and maintenance of the following radioactive effluent monitoring and measurement instrumentation:

- (1) Work Order (W/O) SNC968111, Unit 1 Drywell High Range Radiation Monitors 1D11-K621A & B Calibration [24 month calibration - electronics only], 03/12/2020
- (2) W/O SNC821119, Unit 1 Drywell High Range Radiation Monitors 1D11-K621A & B Calibration [24 month calibration - electronics only], 09/27/2017
- (3) W/O SNC1014242, Unit 2 Reactor Building Vent Stack D11-K636A, repair and perform Functional Test and Calibration, 4/27/2019

71124.07 - Radiological Environmental Monitoring Program

GPI Implementation (IP Section 03.03) (1 Partial)

- (1) (Partial)
The inspectors evaluated a reported leak of tritium from the unit two condensate storage tank pump moat.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

IE01: Unplanned Scrams per 7000 Critical Hours Sample (IP Section 03.01) (2 Samples)

- (1) Unit 1 (January 1, 2020 to December 31, 2020)
- (2) Unit 2 (January 1, 2020 to December 31, 2020)

IE03: Unplanned Power Changes per 7000 Critical Hours Sample (IP Section 03.02) (2 Samples)

- (1) Unit 1 (January 1, 2020 to December 31, 2020)
- (2) Unit 2 (January 1, 2020 to December 31, 2020)

IE04: Unplanned Scrams with Complications (USwC) Sample (IP Section 03.03) (2 Samples)

- (1) Unit 1 (January 1, 2020 to December 31, 2020)
- (2) Unit 2 (January 1, 2020 to December 31, 2020)

OR01: Occupational Exposure Control Effectiveness Sample (IP Section 03.15) (1 Sample)

- (1) January 1, 2020 through January 31, 2021

PR01: Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual Radiological Effluent Occurrences (RETS/ODCM) Radiological Effluent Occurrences Sample (IP Section 03.16) (1 Sample)

- (1) November 30, 2020 through January 31, 2021

71152 - Problem Identification and Resolution

Annual Follow-up of Selected Issues (IP Section 02.03) (1 Sample)

The inspectors reviewed the licensee’s implementation of its corrective action program related to the following issues:

- (1) Root Cause Determination Report 278526, Unplanned Power Changes Performance Indicator Low Margin Hatch Unit 1 during 2020, was reviewed by inspectors, on March 15, 2020.

71153 - Follow-up of Events and Notices of Enforcement Discretion

Event Report (IP Section 03.02) (1 Sample)

The inspectors evaluated the following licensee event reports (LERs):

- (1) LER 05000321/2020-001-00, 1A EDG Inoperable due to water in day tank (ADAMS Accession No. ML20345A083) on December 10, 2020. The inspection conclusions associated with this LER are documented in Inspection Report 05000321/2020002 under Inspection Results Section 71152.

INSPECTION RESULTS

Licensee-Identified Non-Cited Violation	71124.07
This violation of very low safety significance was identified by the licensee and has been entered into the licensee corrective action program and is being treated as a non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.	
Violation: 10CFR20 1406(c) requires in part, that licensees, to the extent practical, conduct operations to minimize the introduction of residual radioactivity into the site, including the subsurface. Contrary to this requirement, on February 1, 2021, as the result of the licensee's failure to perform, to the extent practical, maintenance activities on the unit two condensate storage tank transfer pump moat to minimize the introduction of residual radioactivity to the site subsurface, leakage of elevated tritium activity from the moat was detected in an adjacent ground water monitoring well.	
Significance/Severity: Green.	
Corrective Action References: CR 10771235	

EXIT MEETINGS AND DEBRIEFS

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

- On April 22, 2021, the inspectors presented the integrated inspection results to Sonny Dean and other members of the licensee staff.
- On February 26, 2021, the inspectors presented the ISI Baseline Inspection and HP Occupational Baseline Inspection results to Sonny Dean, Site VP and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.01	Calculations	SCNH-13-020	Hatch Probable Maximum Flood Hydraulics - Severe Accident Management (SAM) for Fukushima Near-Term Task Force (NTTF) Recommendation 2.1 Flooding Reevaluation	1.0
71111.01	Calculations	SCNH-13-021	Evaluation of Plant Hatch Local Intense Precipitation - Severe Accident Management (SAM) for Fukushima Near-Term Task Force (NTTF) Recommendation 2.1 Flooding Evaluation	1.0
71111.01	Corrective Action Documents Resulting from Inspection	10776017		02/18/2021
71111.01	Miscellaneous	HNP-2-FSAR-2	Hatch Nuclear Plant, Final Safety Analysis Reports Updates, Chapter 2	35
71111.01	Miscellaneous	Natural Weather Service Watch, Warning & Advisories	Tornado Watch	02/15/2021
71111.01	Procedures	34AB-Y22-002-0	Naturally Occurring Phenomena	19.2
71111.01	Procedures	34AR-650-206-2	Plant Service Water Valve Pit Sumps Level High	1.2
71111.01	Procedures	NMP-OS-017	Severe Weather Attachments 1 through 8	02/15/2021
71111.01	Procedures	NMP-OS-017	Severe Weather Attachments 1 through 9	02/18/2021
71111.01	Procedures	NMP-OS-017	Severe Weather	3.0
71111.04	Corrective Action Documents Resulting from Inspection	10773366		02/10/2021
71111.04	Corrective Action Documents Resulting from Inspection	10784664		03/23/2021
71111.04	Drawings	H-26018	Unit 2 Core Spray System P&ID	40.0
71111.04	Drawings	H-26083	Hatch Unit 2 Nitrogen Inerting System P&ID	45.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04	Drawings	H-26084	Hatch Nuclear Plant Unit 2 Primary Containment Purge and Inerting System P&ID	42.0
71111.04	Procedures	34SO-E21-001-2	Core Spray System operating procedure	26.5
71111.04	Procedures	34SO-R43-001-1	Diesel Generator Standby System	29.2
71111.04	Procedures	34SO-R43-001-2	Diesel Generator Standby AC System, Attachments 2 and 3	30.8
71111.04	Procedures	34SO-T48-002-2	Containment Atmospheric Control and Dilution Systems	29.7
71111.05	Corrective Action Documents Resulting from Inspection	10768272		01/21/2021
71111.05	Corrective Action Documents Resulting from Inspection	10769666		01/27/2021
71111.05	Corrective Action Documents Resulting from Inspection	10770244		01/29/2021
71111.05	Corrective Action Documents Resulting from Inspection	10771474		02/03/2021
71111.05	Corrective Action Documents Resulting from Inspection	10771727		02/04/2021
71111.05	Corrective Action Documents Resulting from Inspection	10771737		02/04/2021
71111.05	Drawings	A-43965 Sheets 53A and 53B	NE RHR & Core Spray Room	2.0
71111.05	Drawings	A-43965 Sheets 011,	Unit 1/2 Station Battery Rooms	3.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		012, 017, and 018		
71111.05	Drawings	A-43965 Sheets 51A and 51B	SE RHR & Core Spray Room	2.0
71111.05	Drawings	A-43965 Sheets 52A and 52B	RCIC Pump and Turbine Room	2.0
71111.05	Drawings	A-43965 Sheets 54A and 54B	CRD and DRW Sump Room	2.0
71111.05	Drawings	A-43965 Sheets 55A and 55B	HPCI Pump Room	2.0
71111.05	Drawings	A-43966 8A, 8B, 9A and 9B	PRE-Fire Plan Diesel Generator Room 1C	2.0
71111.05	Drawings	H11846	Fire Hazards Analysis Diesel Generator BLDG	3.0
71111.05	Fire Plans	A-43965 Sheet 37A	Pre-Fire Plan 600V Switchgear Room 2C	4.0
71111.05	Miscellaneous	Email from the Senior Fire Protection Engineer Plant Hatch	Update on CR 10769666	02/03/2021
71111.05	Miscellaneous	Evaluation of Fire Barrier Degradation		02/10/2020
71111.05	Procedures	DI-OPS-72-1204	Fire Brigade Gear Restoration	15.2
71111.06	Calculations	H-RIE-IF-U00-001	Hatch Internal Flood Notebook - Tasks 1, 2, and 3	1.0
71111.06	Corrective Action Documents Resulting from Inspection	10783738		03/19/2021
71111.06	Fire Plans	A-43965 Sheet 38A	Pre-Fire Plan 600V Switchgear Room 2D	4
71111.06	Procedures	34SO-G11-013-2	Drywell and Reactor Building Sump Systems	1.4
71111.06	Procedures	57IT-T45-002-2	Sump Isolation Valve Actuation Test	0.3
71111.07A	Procedures	52SV-R43-001-0	Diesel, Alternator, and Accessories Inspection	31.21
71111.07A	Procedures	NMP-ES-012-001	Inspection of Heat Exchangers	03/24/2021
71111.11Q	Miscellaneous	H-LT-SG-50332	Shutdown Cooling (SDC) Operations / Loss of SDC / SOER 09-1	29.4
71111.11Q	Procedures	34GO-OPS-007-0	Shutdown/Refueling Mode Preparation Strategy For Flex	1.2
71111.11Q	Procedures	34GO-OPS-013-2	Normal Plant Shutdown	33.5

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.12	Corrective Action Documents	10676552		01/09/2020
71111.12	Corrective Action Documents	10702333		04/12/2020
71111.12	Corrective Action Documents	10704587		04/23/2020
71111.12	Corrective Action Documents	10744782		10/09/2020
71111.12	Corrective Action Documents	10744782		10/09/2020
71111.12	Corrective Action Documents	10753668		11/13/2020
71111.12	Corrective Action Documents	10755578		11/21/2020
71111.12	Corrective Action Documents	CAR278637	Unit 2A drywell Chiller Trip	12/29/2020
71111.12	Corrective Action Documents	CAR278637	Unit 2A Drywell Chiller Trip	12/29/2020
71111.12	Corrective Action Documents Resulting from Inspection	10786885		3/31/2021
71111.12	Engineering Evaluations	EVAL-H-P64-05230	Applicable to Both 2P64B006A and 2P64B006B Drywell Chillers a(1) Review	12/30/2020
71111.12	Engineering Evaluations	TE1066690		05/22/2020
71111.12	Engineering Evaluations	TE1068785		06/30/2020
71111.12	Engineering Evaluations	TE1076069		11/05/2020
71111.12	Engineering Evaluations	TE1078644		12/02/2020
71111.12	Engineering Evaluations	TE4078088		12/08/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.12	Miscellaneous	Maintenance Rule SSC Function Consolidation and Performance Criteria Selection Form for P-64 Primary Containment Chilled Water (Unit 2)		11/12/2019
71111.12	Miscellaneous	PMCR99240	2P64-B006A/B Main Oil Pump Motor Starter	03/12/2021
71111.12	Procedures	FL600DG1Y-H	Flex 600V Diesel Generator Operational Inspection Work Instructions	08/16/2018
71111.12	Procedures	FL600VDG1Y-H4	FLLEX 600V Stack Diesel Generator Performance Test Work Instructions	01/07/2021
71111.12	Procedures	FL600VDG3Y-H	FLEX 600V Diesel Generator Performance Test Work Instructions	08/16/2018
71111.12	Procedures	FL600VDG3Y-H4	FLEX 600V Stack Diesel Generator Performance Test Work Instructions	01/07/2021
71111.12	Procedures	FL60KW3Y-H	FLEX 60KW Generator Performance Test Work Instructions	8/16/2018
71111.12	Procedures	FL60KW6M-H	60KW Generator Operational Inspection Work Instructions	08/16/2018
71111.12	Procedures	FLBSTRPMP3Y	FLEX Booster Pump Performance Test Work Instructions	03/02/2021
71111.12	Procedures	FLBSTRPMP6M	Flex Booster Pump Functional Test and Inspection Work Instructions	10/26/2020
71111.12	Procedures	NMP-)S-019-013-GL02	Hatch BDB Equipment Unavailability Tracking Guideline	5.1
71111.12	Procedures	NMP-ES-002-006	System Vulnerability Review Process	3.4
71111.12	Procedures	NMP-ES-027	Maintenance Rule Program	9.0
71111.12	Procedures	NMP-GM-038	Diverse and Flexible Coping Strategies (FLEX) Program	4.0
71111.12	Procedures	NMP-OS-019	Beyond Design Basis Events	2.0
71111.12	Procedures	NMP-OS-019-013	Beyond Design Basis Equipment Unavailability Tracking	4.0
71111.12	Procedures	NMP-OS-019-291	FLEX Core Cooling Pump Operating Instruction	2.0
71111.12	Procedures	NMP-OS-019-292	FLEX Mode 4/5 Core Cooling Pump Operating	2.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Instruction	
71111.12	Procedures	NMP-OS-019-293	FLEX 600V Diesel Generator Operating Instruction	1.1
71111.12	Procedures	NMP-OS-019-294	FLEX 60KW Diesel Generator Operating Instruction	1.0
71111.12	Procedures	NUMARC 93-01	Industry Guideline for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants	4A
71111.12	Work Orders	SNC1060565	Mode 5 Core Cooling Pump Functional Test	1/11/2021
71111.13	Corrective Action Documents Resulting from Inspection	10784404		03/22/2021
71111.13	Miscellaneous		License Amendment Request to Revise the RAS of TS 3.8.1, AC Sources - Operating, for One-Time Extension of Completion Time for Unit 1 and Swing EDGs SNC Responses to NRC RAI, Attachments 5 and 6	
71111.13	Procedures	34GO-OPS-007-0	Shutdown/Refueling Mode Preparation Strategy for Flex	1.2
71111.13	Procedures	NMP-GM-031-003	Risk Management Actions for 10 CFR 50.65(a)(4) and the Risk Informed Completion Time Program	8.0
71111.13	Procedures	NMP-OS-010	Protected Train/Division and Protected Equipment Program	8.1
71111.13	Procedures	NMP-OS-010-002	Hatch Protected Equipment Logs	11.1
71111.13	Procedures	NMP-OS-019-253	Hatch Unit C SIG-12, Mode 4/5 RPV Inventory Control	2.3
71111.15	Corrective Action Documents	10714013		06/07/2020
71111.15	Corrective Action Documents	10763139		12/28/2020
71111.15	Corrective Action Documents	10763247		12/29/2020
71111.15	Corrective Action Documents	10764816		01/06/2021
71111.15	Corrective Action Documents	10769088		01/25/2021
71111.15	Corrective Action Documents	107819557		03/11/2021

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.15	Corrective Action Documents	10782116		03/12/2020
71111.15	Corrective Action Documents	10782586		03/15/2021
71111.15	Corrective Action Documents	10783262		03/17/2021
71111.15	Corrective Action Documents	10786180		03/29/2021
71111.15	Corrective Action Documents	10786184		03/29/2021
71111.15	Corrective Action Documents Resulting from Inspection	10771474		02/03/2021
71111.15	Corrective Action Documents Resulting from Inspection	10783264		03/17/2021
71111.15	Drawings	H-21033	Unit 2 Turbine Building Service Water System	61.0
71111.15	Drawings	H-21704	Diesel Engine & Fuel Oil System	56.0
71111.15	Engineering Changes	SNC1148794	Design Equivalent Change Package for 2T41-B003B Cooler Fan Failure TCC	03/30/2021
71111.15	Engineering Evaluations	NMP-AD-012-F01	Operability Determination Support Basis for CR10764816	4.0
71111.15	Engineering Evaluations	TE 313720		01/18/2012
71111.15	Engineering Evaluations	TE457436		07/05/2012
71111.15	Miscellaneous	APC 2-20-024	Alarm 2N32-K4001A/B Monitoring Actions	06/08/2020
71111.15	Miscellaneous	Specification Sheet	Lube Oil Heat Exchanger Specification Sheet	1.0
71111.15	Operability Evaluations	NMP-AD-012-F01	Operability Determination Support Basis for 2T41-B003B	03/25/2021
71111.15	Procedures	42SV-TET-001-0	LLRT Testing Methodology	13.0
71111.15	Procedures	42SV-TET-001-2	Primary Containment Periodic Type B and Type C	37.2

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Leakage Tests	
71111.15	Procedures	NMP-AD-002-F04	Troubleshooting Log for the 2C EDG	1.1
71111.15	Procedures	NMP-AD-012-F01	Operability determination Support Basis for the 2C EDG	03/16/2021
71111.15	Work Orders	SNC1100180		
71111.15	Work Orders	SNC1135192		
71111.15	Work Orders	SNC865011		02/08/2021
71111.18	Calculations	MC-H-19-0020	Coordination Study for 600V and 208V Switchgear Busses	05/04/2020
71111.18	Corrective Action Documents	10771124		02/02/2021
71111.18	Corrective Action Documents	10778925		02/25/2021
71111.18	Corrective Action Documents	10780926		03/08/2021
71111.18	Engineering Changes	SNC1010116 Commercial Change Package	NFPA 805 - Coordination for Breakers 2R25-S021 & 2R25-S022	08/04/2020
71111.18	Miscellaneous	SNC1010116FPP5	Fire Protection Program Impact Screen of Commercial Change Package SNC1010116	07/06/2020
71111.18	Procedures	42SP-10-30-20-RR-1-2	Yokogawa YS1700 Reactor Feed Pump Controllers 2C32-R600, 2C32-R601A/B, 2C32-R619, and 2C32-R609 FT for DECP SNC632608	1.1
71111.18	Procedures	NMP-AD-008	Applicability Determinations	22.0
71111.18	Procedures	NMP-AD-009	Licensing Document Change Requests	17.0
71111.18	Procedures	NMP-AD-010	10 CFR 50.59 Screenings and Evaluations	17.0
71111.18	Procedures	NMP-MA-014	Post Maintenance Testing/Post Modification Testing	2.2
71111.18	Shipping Records	SNC 1107054	Revise the Micro Versa Trip Unit Setting on 2R23-S021 FR 4M	02/25/2021
71111.18	Work Orders	SNC1107044	Revise the Micro Versa Unit Setting on 2R23-S021 FR 4B	02/24/2021
71111.18	Work Orders	SNC632608	Main Control Room Feedwater Controller Replacement	06/18/2020
71111.18	Work Orders	SNC632608DLL	Critical Digital Asset (CDA) Screening	05/15/2020
71111.18	Work Orders	SNC632608DOEJJ001	EMI/RFI Evaluation of Equipment Added for DCPSNC632608	03/17/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.18	Work Orders	SNC632608MAX1, 2 and 3		
71111.18	Work Orders	SNC632608OE	Applicable Operating Experience Review	
71111.18	Work Orders	SNC632608PE		
71111.18	Work Orders	SNC632608REF	Walkdown Plan and Observations Record	02/24/2020
71111.18	Work Orders	SNC632608RF		05/06/2020
71111.18	Work Orders	SNC632608SCP	Software Quality Assurance Classification	05/14/2020
71111.19	Corrective Action Documents	10776153		02/18/2021
71111.19	Corrective Action Documents	10776156		02/18/2021
71111.19	Corrective Action Documents	10776158		02/18/2021
71111.19	Corrective Action Documents	10776420		02/19/2021
71111.19	Corrective Action Documents	10776752		02/20/2021
71111.19	Corrective Action Documents	10778039		02/25/2021
71111.19	Corrective Action Documents	10781022		03/08/2021
71111.19	Corrective Action Documents Resulting from Inspection	10771741		02/04/2021
71111.19	Engineering Changes	SNC1142049		03/03/2021
71111.19	Procedures	34SO-C51-001-0	Tip Operation and LPRM Calibration	19.4
71111.19	Procedures	34SV-P41-001-1	Plant Service Water Operability	15.2
71111.19	Procedures	34SV-R43-001-2	Diesel Generator 2A Monthly Test	29.4
71111.19	Procedures	34SV-R43-003-1	Diesel Generator 1C Monthly Test	20.2
71111.19	Procedures	42FH-ENG-030	ICA Transfer Authorization for Nuclear Detector Installation	5.0
71111.19	Procedures	42FH-ENG-030-0	ICA Transfer Authorization	5.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.19	Procedures	42SV-C11-003-0	U2C27 BOC Control Rod Scram Timing	11.1
71111.19	Procedures	42SV-TET-001-0	LLRT Testing Methodology	13.0
71111.19	Procedures	42SV-TET-001-0	Volumetric Leak Rate Monitor Local Leak Rate Test Data Sheet for, 2T48-F319 & 2T48-F320	03/02/2021
71111.19	Procedures	42SV-TET-001-0	Unit 2 LLRT 2T48-F320 Shaft & Flange O-Rings	03/02/2021
71111.19	Procedures	42SV-TET-001-2	Primary Containment Periodic Type B & Type C Leakage Tests	37.2
71111.19	Procedures	52GM-C51-001-0	LPRM Removal and Installation	17.3
71111.19	Procedures	52SV-R43-001-0	Diesel, Alternator, And Accessories Inspection, Section 7.9 Diesel Generator Run In	03/28/2021
71111.19	Procedures	52SV-R43-001-0	Diesel, Alternator, and Accessories Inspection	31.21
71111.19	Procedures	NMP-MA-014	Post Maintenance Testing/Post Modification Testing	2.1
71111.19	Procedures	NMP-MA-014-001	Post Maintenance Testing Guidance	5.2
71111.19	Work Orders	SNC1093049		02/17/2021
71111.19	Work Orders	SNC1130203		01/29/2021
71111.19	Work Orders	SNC1137368		02/05/2021
71111.19	Work Orders	SNC1137428		02/26/2021
71111.19	Work Orders	SNC1139786		01/29/2021
71111.19	Work Orders	SNC1139991		01/29/2021
71111.20	Corrective Action Documents Resulting from Inspection	10773870		02/12/2021
71111.20	Corrective Action Documents Resulting from Inspection	10773870		02/12/2021
71111.20	Miscellaneous		OCC - All OPS Activities Next 7 Days By Team, Outage Schedule	01/21/2021
71111.20	Miscellaneous		H2R26 Final Outage Safety Assessment Report	0.0
71111.20	Miscellaneous		H2R26 Final Outage Safety Assessment Report	1.0
71111.20	Procedures	34GO-OPS 001-2	Plant Startup	51.9
71111.20	Procedures	34GO-OPS-013-2	Normal Plant Shutdown	33.5

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.20	Procedures	34GO-OPS-015-2	Maintaining Cold Shutdown or Refueling Condition	16.2
71111.20	Procedures	34GO-OPS-025-0	RPV Water Inventory Control	3.3
71111.20	Procedures	34GO-OPS-028-2	Drywell Closeout	7.21
71111.20	Procedures	34GO-OPS-029-0	Torus & Torus Area Closeout	3.2
71111.20	Procedures	52GM-MME-004-2	Reactor Vessel Reassembly	21.0
71111.20	Procedures	52GM-MME-015-2	Reactor Vessel Disassembly	18.9
71111.20	Procedures	NMP-RE-007, Attachments 1, 2 And 3	H2C27 Core Loading Verification	02/26/2021
71111.20	Procedures	NMP-RE-008-F01	Detailed Reactivity Management Plan	03/08/2021
71111.20	Work Orders	SNC946845		02/01/2021
71111.22	Calibration Records	10773100, 10773182, 10773184 and 10773217		02/10/2021
71111.22	Corrective Action Documents	10766461		01/11/2021
71111.22	Corrective Action Documents	10766491		01/13/2021
71111.22	Corrective Action Documents	10769440		01/26/2021
71111.22	Corrective Action Documents	10780410		03/05/2021
71111.22	Corrective Action Documents	10780501		03/05/2021
71111.22	Drawings	H-16329-16330	RHR System P&ID Sheets 1 & 2	84.0 and 75.0
71111.22	Procedures	34SV-E11-004-1	RHR Service Water Pump Operability	22.1
71111.22	Procedures	34SV-E21-001-1	Core Spray Pump Operability	24.2
71111.22	Procedures	34SV-E41-002-2	High Pressure Coolant Injection Pump Operability CPT	39.1
71111.22	Procedures	34SV-E41-010-2	HPCI Logic System Functional Test	1.2
71111.22	Procedures	34SV-E51-010-2	RCIC Logic System Functional Test	1.5
71111.22	Procedures	34SV-R43-003-1	Diesel Generator 1C Monthly Test	20.2
71111.22	Procedures	34SV-R43-020-2	Diesel Generator 2A LOCA/LOSP LSFT	4.0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.22	Procedures	34SV-T48-002-2	Suppression Chamber to Drywell Vacuum Breaker Operability And Containment Purge/Vent Valve Position Check	5.8
71111.22	Work Orders	SNC1060565	Mode 5 Core Cooling Pump Functional Test	January 11, 2021
71124.01	Corrective Action Documents	CR 10752676		
71124.01	Radiation Surveys	182603	U2 CPS A Pump Room	08/25/20
71124.02	Procedures	NMP-AD-035	ALARA Program	Version 1.9
71124.02	Procedures	NMP-HP-204	ALARA Planning and Job Review	Ver. 7.2
71124.02	Procedures	NMP-HP-204-001	ALARA Planning	Version 2.2
71124.02	Procedures	NMP-HP-206	Issuance, Use, and Control of Radiation Work Permits	Version 6.1
71124.03	Corrective Action Documents	CR 10771551		
71124.03	Corrective Action Documents Resulting from Inspection	CR 10778343		
71124.03	Self-Assessments	TE 1058722	RP Pre-NRC check-in self-assessment	12/06/2020
71124.04	Corrective Action Documents Resulting from Inspection	10778784		
71124.04	Miscellaneous	Technical Position	Evaluation of Tritium Monitoring Plant Hatch Nuclear Station	02/06/2019
71124.04	Procedures	NMP-HP-108	Issuance, Use and Collection of Personnel Dosimetry	Version 2.9
71124.05	Calibration Records	109114	Hatch Main Stack Radiation Monitor calibration source ID # 0080.00.00 (Cd-109 simulated gas in a Marinelli beaker) - Eckert & Ziegler Certification of Calibration	04/30/2018
71124.05	Calibration Records	129	Victoreen Model 878-10 Calibrator Certification of Calibration (Hatch source ID # Cs-137- 243)	10/01/1997

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71124.05	Calibration Records	129	Victoreen Model 878-10 Calibrator Certification of Calibration (Hatch source ID # Cs-137- 243)	05/07/1991
71124.05	Calibration Records	1D11-K604	Unit 1 Liquid Radwaste Monitor radiation monitor initial source calibration with liquid Cs-137 source using 62CI-CAL-009-0, v1.0	06/20/1985
71124.05	Calibration Records	1D11-K604	Initial solid source response calibration performed per 62CI-OCB-009-0, Rev 1 after NBS-traceable liquid Cs-137 source for efficiency factor determination. Cs-137 source, Serial number Cs-137-179, used for traceable source count rate determination.	06/21/1985
71124.05	Calibration Records	1D11-K604	Calibration source transfer performed (Cs-137-179, Cs-137-183) per 64CI-OCB-009-0.	11/14/1995
71124.05	Calibration Records	1D11-K619B	Unit 1 Reactor Building Ventilation Radiation Monitor (RBV) 1D1-K619B source calibration [performed after detector replacement and HV and discriminator set]	04/20/2020
71124.05	Calibration Records	73713-06	Hatch Main Stack Radiation Monitor calibration source ID # Cs-137-284 (simulated gas in a Marinelli beaker) - Analytics Certification of Calibration	09/18/2006
71124.05	Calibration Records	73715-06	Hatch Main Stack Radiation Monitor calibration source ID # Co-60-146 (simulated gas in a Marinelli beaker) - Analytics Certification of Calibration	09/18/2006
71124.05	Calibration Records	86243-121	Hatch calibration source ID # Tc-99-77 - Eckert & Ziegler Certification of Calibration	12/12/2011
71124.05	Calibration Records	93549F	Hatch Main Stack Radiation Monitor calibration source ID # Cd-109-147 (simulated gas in a Marinelli beaker) - Eckert & Ziegler Certification of Calibration	06/28/2013
71124.05	Calibration Records	W/O 1036883	Unit 2 Liquid Radwaste Radiation Monitor (MPL: 2D11-K604) source calibration (per Procedure 64CI-OCB-009-0)	08/12/2019
71124.05	Calibration Records	W/O SNC754124	Unit 2 Drywell High Range Radiation Monitor 2D11-621A & B Loop Calibration [24 month calibration - electronics only]	01/26/2017
71124.05	Calibration Records	W/O SNC761756	Unit 2 Reactor Building Ventilation Post Accident Noble Gas Radiation Monitor 2D11-K636A & B FT&C (channel	03/01/2017

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			functional test) [24 month calibration - electronics only]	
71124.05	Calibration Records	W/O SNC909309	Unit 2 Reactor Building Ventilation Post Accident Noble Gas Radiation Monitor 2D11-K636A & B FT&C (channel functional test) [24 month calibration - electronics only]	04/25/2019
71124.05	Calibration Records	W/O SNC961179	Reactor Building Ventilation Radiation Monitor 1D1-K619A FT&C (channel functional test) [24 month calibration - electronics only]	08/22/2019
71124.05	Calibration Records	Work Order (W/O) SNC 878503	Unit 2 Drywell High Range Radiation Monitor 2D11-621A & B Loop Calibration [24 month calibration - electronics only]	05/11/2019
71124.05	Corrective Action Documents		CR Numbers: 10448588, 10572155, 10586543, 10629838, 10629675, and 10640037	Various
71124.05	Corrective Action Documents Resulting from Inspection	CR 10772650	Current certified source calibration data not being used for Drywell radiation monitor (Victoreen 878-10 field calibrator S/N 129, Hatch source ID # Cs-137-243).	02/08/2021
71124.05	Corrective Action Documents Resulting from Inspection	CR 10772654	Chemistry radiation monitor source calibration procedures should all be revised to require recording of the applicable work order number on the quality record for all source calibrations.	02/08/2021
71124.05	Corrective Action Documents Resulting from Inspection	CR 10773027	Chemistry procedures for source calibrations on various radiation monitors generally specify that the technician should ensure the source has 'sufficient strength' but how to determine what is 'sufficient' is not defined. The procedures should be revised to include this information.	02/09/2021
71124.05	Corrective Action Documents Resulting from Inspection	CR 10773254	Revise Procedure NMP-HP-400 to include a counting geometry for NI-63 smear sample analysis (used for source leak testing).	02/10/2021
71124.05	Corrective Action Documents Resulting from Inspection	CR 10773533	NRC observation - evaluate inclusion of Accident Range Ventilation Effluent Monitoring System (ARVEMS) in the Chemistry Continuing Training Program to ensure sampling proficiency is maintained.	02/11/2021
71124.05	Corrective Action	CR 10775274	NRC inspector identified that the 2020 vendor	02/16/2021

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Documents Resulting from Inspection		calibration package for the dosimetry office whole body counter had incorrect dates (2019 vs. 2020).	
71124.05	Corrective Action Documents Resulting from Inspection	CR 10777540	Procedure 57SV-D11-021-1 and -2 needs to be revised such that the special requirements state that a Functional Test is required every time an electronic calibration is performed. It also needs to also require a source calibration per the Chemistry procedure when the 2-year cal is performed as well.	02/23/2021
71124.05	Corrective Action Documents Resulting from Inspection	CR 10778227	Liquid Radwaste radiation monitor calibration source # Cs-137-183 NIST traceability documentation cannot be located.	02/25/2021
71124.07	Corrective Action Documents	CAR 276603		
71124.07	Corrective Action Documents	CR 10600292		
71124.07	Corrective Action Documents	CR 10635234		
71124.07	Corrective Action Documents	TE 1071055		
71124.07	Miscellaneous		EPRI Groundwater Protection Program Assessment	08/20/2020
71124.07	Miscellaneous		Groundwater Monitoring Data for Sample Well NW-10	01/01/2019 - 02/10/2021
71124.07	Procedures	NMP-EN-002	Radiological Groundwater Protection Program	Version 9.2
71124.07	Procedures	NMP-EN-002-GL02	Hatch Nuclear Plant Groundwater Monitoring Plan for Radionuclides	Version 1.1
71124.07	Procedures	NMP-EN-002-GL04	Radiological GWPP Technical Bases	Version 1.0
71124.07	Procedures	NMP-ES-036-001	Underground Pipe and Tanks Monitoring Program Implementation	Version 11
71124.07	Procedures	ODCM	Offsite Dose Calculation Manual for Edwin I. Hatch Nuclear Plant	Version 26

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71124.07	Radiation Surveys	Plant Hatch Radiological Information Survey # 185685	Routine Survey Unit 2 CST	01/23/2021
71124.07	Radiation Surveys	Plant Hatch Radiological Information Survey # 186959	U2 CST Routine Survey	02/20/2020
71151	Miscellaneous	LER 2020-001-000		March 2, 2020
71151	Miscellaneous	LER 2020-001-000		December 10, 2020
71151	Miscellaneous	LER 2020-002-000		June 18, 2020
71151	Miscellaneous	NEI 99-02	Regulatory Assessment Performance Indicator Guideline	7.0
71152	Corrective Action Documents	RCE278526		12/18/2020
71152	Corrective Action Documents	RCE278526		12/18/2020
71153	Corrective Action Documents	10695910		03/15/2020
71153	Corrective Action Documents	10707660		05/07/2020
71153	Corrective Action Documents	10707858		05/08/2020
71153	Corrective Action Documents	CAR 277887		10/28/2020
71153	Corrective Action Documents Resulting from Inspection	10728101		08/05/2020
71153	Corrective Action Documents	10747434		10/20/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Resulting from Inspection			
71153	Corrective Action Documents Resulting from Inspection	10764815		01/06/2021
71153	Corrective Action Documents Resulting from Inspection	CAR 278739		01/06/2021
71153	Engineering Evaluations	TE 1067120	1A EDG Past Operability	05/14/2020
71153	Miscellaneous	ML20345A083	LER 2020-001-00 for Edwin I. Hatch Nuclear Plant Unit 1, 1A EDG Inoperable Due to Water in the Day Tank	12/10/2020