



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

August 2, 2021

Ms. Kim Maza
Site Vice President
Duke Energy Progress, LLC
5413 Shearon Harris Road
Mail Code HNP01
New Hill, NC 27562-9300

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT – INTEGRATED INSPECTION
REPORT 05000400/2021002

Dear Ms. Maza:

On June 30, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Shearon Harris Nuclear Power Plant. On July 19, 2021, the NRC inspectors discussed the results of this inspection with you 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 Margaret Tobin Acting for/

Stewart N. Bailey, Chief
Reactor Projects Branch 4
Division of Reactor Projects

Docket No. 05000400
License No. NPF-63

Enclosure:
As stated

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SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT – INTEGRATED INSPECTION REPORT 05000400/2021002 – DATED August 2, 2021

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OFFICE	RII/DRP	RII/DRP	RII/DRP	RII/DRP	
NAME	D. Jackson	C. Smith	J. Zeiler	M. Tobin for S. Bailey	
DATE	7/30/2021	7/21/2021	7/29/2021	8/02/2021	

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

Docket Number: 05000400

License Number: NPF-63

Report Number: 05000400/2021002

Enterprise Identifier: I-2021-002-0009

Licensee: Duke Energy Progress, LLC

Facility: Shearon Harris Nuclear Power Plant

Location: New Hill, NC 27562

Inspection Dates: April 1, 2021 to June 30, 2021

Inspectors: J. Zeiler, Senior Resident Inspector
C. Smith, Resident Inspector
B. Collins, Senior Reactor Inspector
J. Diaz-Velez, Senior Health Physicist
B. Kellner, Senior Health Physicist
A. Nielsen, Senior Health Physicist
W. Pursley, Health Physicist
J. Walker, Emergency Response Inspector

Approved By: Stewart N. Bailey, Chief
Reactor Projects Branch 4
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 Shearon Harris Nuclear Power 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.

List of Findings and Violations

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

Additional Tracking Items

None.

PLANT STATUS

Unit 1 operated at rated thermal power until April 6, 2021, when a coastdown was initiated in preparation for an upcoming refueling outage. On April 23, 2021, the unit was shut down from 90 percent power to begin refueling outage H1R23. The refueling outage was completed on May 14, 2021. That same day, with the unit operating at approximately 27 percent power, the unit was shut down to Mode 3 to address abnormal vibrations of an outage installed generator ground detection device frame support member in the generator exciter structure. The unit was restarted on May 15, 2021, and returned to rated thermal power on May 18, 2021. On June 4, 2021, the unit was shut down to Mode 3 to repair an oil leak on the 1B unit auxiliary transformer (UAT) X-winding electrical bushing connection. The unit was restarted on June 7, 2021, and was returned to rated thermal power on June 9, 2021. The unit remained at or near rated thermal power 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 and regional 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, increasing the amount of time on site as local COVID-19 conditions permitted. As part of their onsite activities, resident inspectors 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 a 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

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (3 Samples)

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

- (1) 'B' residual heat removal (RHR) system while 'A' RHR system was out of service for scheduled pump motor breaker maintenance on April 19, 2021
- (2) 'B' emergency diesel generator (EDG) while 'A' EDG was out of service for refueling outage preventive maintenance on May 5, 2021

- (3) 'B' essential services chilled water (ESCW) system while 'A' ESCW system was out of service for scheduled maintenance on June 22, 2021

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

- (1) The inspectors evaluated system configurations during a complete walkdown of the auxiliary feedwater system, completed on June 14, 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) Reactor Auxiliary Building (RAB) 261' elevation steam tunnel area (fire zone 1-A-46-ST) on April 13, 2021
- (2) Emergency service water (ESW) intake screening structure (fire zone 5-S-BAL) on April 22, 2021
- (3) Containment 221', 236', and 261' elevations (fire zones 1-C-1-BAL, 1-C-1-CHFA, 1-C-CHFB, 1-C-3-EPA, and 1-C-3-EPB) on April 25, 2021
- (4) 'B' EDG room and support equipment areas (fire zones 1-D-1-DGB-ROM, 1-D-3-DGB-ES, 1-D-DTB, 1-D-1-DGB-ASU, and 1-D-1-DGB-ER) on May 8, 2021
- (5) RAB 190' elevation 'A' and 'B' RHR and containment spray pump rooms (fire zones 1-A-1-PA and 1-A-1-PB) on May 14, 2021
- (6) RAB 286' elevation 'B' train essential switchgear and battery rooms (fire zones 1-A-SWGRB and 1-A-BATB) on June 5, 2021

71111.06 - Flood Protection Measures

Cable Degradation (IP Section 03.02) (1 Sample)

The inspectors evaluated cable submergence protection in:

- (1) Cable vaults M70A, M70B, M71A, and M71B that contain 'A' train safety-related cables associated with the ESW system on May 18 and May 20, 2021

71111.07A - Heat Sink Performance

Annual Review (IP Section 03.01) (2 Samples)

The inspectors evaluated readiness and performance of:

- (1) 'A' ESCW condenser heat exchanger during visual inspection, mechanical tube cleaning, and tube plugging maintenance activities on May 1-3, 2021
- (2) 'A' component cooling water (CCW) heat exchanger during visual inspection, mechanical tube cleaning, and tube plugging maintenance activities on May 1-3, 2021

71111.08P - Inservice Inspection Activities (PWR)

PWR Inservice Inspection Activities Sample (IP Section 03.01) (1 Sample)

The inspectors evaluated pressurized-water reactor non-destructive testing by reviewing the following examinations from May 10 - 14, 2021:

- (1) 03.01.a - Nondestructive Examination and Welding Activities.
 1. Ultrasonic Examination (UT)
 - a. 6" reactor coolant system weld (1-RC6-47SB), ASME Class 1 (reviewed)
 - b. 6" safety injection system weld (II-SI-024SI-FW-587), ASME Class 1 (reviewed)
 2. Liquid Penetrant Examination (PT)
 - a. 10" service water system spoolpiece 3SW10-938SA-1 weld (WO-1), ASME Class 3 (reviewed, including weld documentation)
 - b. 6" safety injection system component welded attachment (SI-H-0960-ATT), ASME Class 1 (reviewed)
 3. Magnetic Particle Testing (MT)
 - a. 12" service water system spoolpiece 3SW12-938SA-1 welds (1-SW-427-1-VW-11, FW-1, FW-2, FW-3), ASME Class 3 (reviewed, including weld documentation)
 - b. 36" steam generator nozzle-to-shell weld (II-SG-001SGB-FWNTSW-05-1), ASME Class 2 (reviewed)

03.01.b - Pressurized-Water Reactor Vessel Upper Head Penetration Examination Activities.

No activities performed this outage. Licensee replaced this unit's head during the previous outage (Fall 2019), and the new head is made of PWSCC-resistant materials.

03.01.c – Pressurized-Water Reactor Boric Acid Corrosion Control Activities.

The inspectors reviewed the licensee's boric acid corrosion control program performance.

03.01.d – Pressurized-Water Reactor Steam Generator Tube Examination Activities.

The inspectors reviewed the licensee's justification for skip-cycle approach on steam generator inservice inspection activities.

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 the following activities:
 - Reactor shutdown for refueling outage H1R23 on April 24-25, 2021
 - Initial reactor criticality following refueling outage H1R23 on May 13, 2021

- Reactor shutdown for maintenance outage to repair oil leak on the 1B UAT on June 4-5, 2021

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

- (1) The inspectors observed and evaluated a simulator scenario for operator training involving a complete loss of feedwater on June 16, 2021

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) Water leakage from fire protection piping failure into EDG building common entrance hallway (NCR 02372140) on March 2, 2021
- (2) 'B' RHR pump failed to start during surveillance testing (NCR 02376252) on March 29, 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) Elevated (Green) risk during scheduled 'A' RHR pump motor breaker maintenance activities on April 19, 2021
- (2) Elevated (Yellow) risk during refueling outage H1R23 for initial reactor coolant system (RCS) draindown to below the reactor vessel flange elevation in preparation for removing the reactor vessel head on April 26, 2021
- (3) Elevated (Yellow) risk during refueling outage H1R23 with single train of RHR and spent fuel pool cooling available while 'A' train essential safety equipment was out of service for outage maintenance with defueling operations in progress on April 29, 2021
- (4) Elevated (Yellow) risk during scheduled annual dedicated shutdown diesel generator (DSDG) annual maintenance outage on June 9-10, 2021
- (5) Elevated (Green) risk during scheduled 'A' ESCW system preventive maintenance on June 22, 2021

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (4 Samples)

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

- (1) Evaluation of 10 CFR 21 notification from Ametek Solidstate Controls identifying potential seismic design concerns with selected power supplies used at Harris Nuclear Plant (NCRs 02361578 and 02376350) on March 30, 2021
- (2) Turbine auto-stop trip Quadvoter solenoid valve 1EH-159B unable to be surveillance tested weekly due to slow test reset of solenoid valve 1EH-159A (NCR 023764510) on April 9, 2021
- (3) Indentation/crack identified in container jar for 'A' train 125 volt-dc safety-related battery cells 37 and 41 (NCR 02381707) on May 8, 2021
- (4) Plant vent stack wide range gas monitor RM-21AV-3509-1SA degraded due to loss of output communication resulting in NRC special report (NCR 02384956) on June 14, 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) Permanent modification engineering change (EC) 416783, Replacement of valve 1CC-252, CCW reactor coolant pump thermal barrier heat exchanger return isolation, implemented during refueling outage H1R23
- (2) Temporary modification EC 419555, Bypass locked in Data A rod position indication non-urgent alarm ALB-13/6-2, implemented on May 16, 2021

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) Operations Surveillance Test (OST)-1008, 1A-SA RHR Pump Operability Quarterly Interval Modes 1-2-3, following 'A' RHR pump motor breaker maintenance on April 19, 2021
- (2) Maintenance Surveillance Test (MST)-E0027, 1E Battery Cell Connection Resistance and Service Test, following replacement of 'A' 125 volt-dc safety-related battery 1A-SA on May 5-8, 2021
- (3) OST-1823, 1A-SA Emergency Diesel Generator Operability Test Modes 1 Through 6 and Defueled, following 'A' EDG refueling outage preventive maintenance on May 8-9, 2021
- (4) Operating Procedure (OP)-186, Dedicated Shutdown Diesel Generator, Section 8.3, Manually Starting the Dedicated Shutdown Diesel Generator, following DSDG scheduled annual maintenance on June 9, 2021
- (5) Operations Periodic Test (OPT)-1512, Essential Chilled Water Turbopak Units Quarterly Inspection/Checks Modes 1-6, following 'A' ESCW chiller scheduled preventive maintenance on June 22, 2021
- (6) OST-1215, Emergency Service Water System Operability Train B Quarterly Interval Modes 1 2 3 4 5 6 Defueled, following 'B' ESW system preventive maintenance outage on June 29, 2021

71111.20 - Refueling and Other Outage Activities

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

- (1) The inspectors evaluated refueling outage H1R23 activities from April 24, 2021, to May 14, 2021

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (3 Samples)

- (1) OST-1086, 1B-SB Diesel Generator Operability Test Semiannual Interval Modes 1-6, on April 11, 2021
- (2) OST-1087, Motor Driven Auxiliary Feedwater Pumps Full Flow Test Quarterly Interval Mode 1, on April 14, 2021
- (3) OST-1826, Safety Injection ESF Response Time, Train B Staggered Test Basis Mode 5 - 6, on May 6, 2021

Inservice Testing (IP Section 03.01) (1 Sample)

- (1) Engineering Surveillance Test (EST)-223, Insitu Main Steam Safety Valve Test Using Assist Device, on April 13, 2021

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

- (1) EST-212, Type C Local Leak Rate Tests, Attachment 31, Penetration M-78A (RCS Hot Leg Sample) LLRT for 1SP-948 and 1SP-949, on April 28, 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 1024, Rx Head Lift/Set
RWP 1009, Miscellaneous Maintenance RCB (HRA Access)
RWP 1015, Radiography
Labels on containers in the auxiliary 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) Observed surveys of potentially contaminated materials leaving the radiologically controlled area (RCA)
- (2) Observed the status of non-fuel items stored in the spent fuel pool

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) Seal table maintenance work
- (2) Reactor vessel head lift
- (3) Irradiated fuel movement

High Radiation Area and Very High Radiation Area Controls (IP Section 03.05) (3 Samples)

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

- (1) Auxiliary building areas
- (2) Containment building areas
- (3) Nuclear instrument (N42) detector and cable replacement

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 (IP Section 03.01) (5 Samples)

The inspectors evaluated the licensee's radiological work planning.

- (1) ALARA Plan #: 2021HNPH123R1-003-Seal Table Activities, Rev. 0
- (2) ALARA Plan #: 2021HNPH123R1-004-Cavity Decon (Medium & High Risk), Rev. 0
- (3) ALARA Plan #: 2021HNPH123-005-Refueling Activities-HRRSA, Rev. 0
- (4) ALARA Plan #: 2021HNPH123R1-001-N42Detector Replacement (M-RRSA), Rev. 0
- (5) ALARA Plan #: 2021HNPH123R1-002-Radiography, Rev. 0

Verification of Dose Estimates and Exposure Tracking Systems (IP Section 03.02) (5 Samples)

The inspectors evaluated dose estimates and exposure tracking. The inspectors reviewed the following as low as reasonably achievable planning and radiological outcome evaluation documents:

- (1) ALARA Plan #: 2021HNPH123R1-003-Seal Table Activities, Rev. 0
- (2) ALARA Plan #: 2021HNPH123R1-004-Cavity Decon (Medium & High Risk), Rev. 0
- (3) ALARA Plan #: 2021HNPH123-005-Refueling Activities-HRRSA, Rev. 0
- (4) ALARA Plan #: 2021HNPH123R1-001-N42Detector Replacement (M-RRSA), Rev. 0
- (5) ALARA Plan #: 2021HNPH123R1-002-Radiography, Rev. 0

Implementation of ALARA and Radiological Work Controls (IP Section 03.03) (2 Samples)

The inspectors reviewed as low as reasonably achievable practices and radiological work controls.

The inspectors reviewed the following activities:

- (1) ALARA In-Progress Review at 50% - ALARA Plan 2021HNPH123R1-003, Seal Table Activities, 05/01/2021
- (2) ALARA In-Progress Review at 50% - ALARA Plan 2021HNPH123R1-005, Refueling 05/01/2021

Radiation Worker Performance (IP Section 03.04) (2 Samples)

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

- (1) Reactor head Lift
- (2) Seal table maintenance work

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

Permanent Ventilation Systems (IP Section 03.01) (2 Samples)

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

- (1) Unit 1 reactor building purge ventilation system.
- (2) Main control room and emergency switchgear room emergency ventilation system

Temporary Ventilation Systems (IP Section 03.02) (2 Samples)

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

- (1) Seal Table HEPA unit installed in Unit 1 containment.
- (2) Unit 1 pressurizer HEPA and charcoal unit

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

- (1) The inspectors evaluated the licensee's use of respiratory protection devices.

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

- (1) The inspectors evaluated the licensee's use and maintenance of self-contained breathing apparatuses.

71124.04 - Occupational Dose Assessment

Source Term Characterization (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated licensee performance as it pertains to radioactive source term characterization.

External Dosimetry (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated licensee's external dosimetry program.

Internal Dosimetry (IP Section 03.03) (1 Sample)

The inspectors evaluated the internal dosimetry program implementation.

- (1) The inspectors reviewed the following:
 - There were no whole-body counts (WBCs), in vitro analysis, or air sampling analyses which resulted in a committed effective dose equivalent (CEDE) assignment equal to or exceeding 10 millirem during the period covered by the inspection.
 - The inspectors reviewed 3 positive WBCs which had positive activity but did not result in CEDE assignments exceeding 10 mrem and evaluated the licensee's procedures for assessing internal dose.

Special Dosimetric Situations (IP Section 03.04) (1 Sample)

The inspectors evaluated the following special dosimetric situation:

- (1) Licensee's implementation of requirements to manage radiation protection of one declared pregnant worker in 2020.

71124.05 - Radiation Monitoring Instrumentation

Walkdowns and Observations (IP Section 03.01) (9 Samples)

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

- (1) Canberra iCAM Alpha/Beta Air Monitor EnRad ID: 13203 located in the technical support center and EnRad ID: 07894 located in the waste processing building [Observed weekly source check]
- (2) Area radiation monitors located in the auxiliary building and waste processing building (WPB)
- (3) Portable survey instruments available for use: Telepole II EnRad ID: 13425/16055; Telepole EnRad ID: 07581; Ludlum Model 9-3 EnRad ID: 12067 and 10288 [Observed weekly source checks]
- (4) Canberra Argos beta/gamma personnel contamination monitor located at the RCA exit. EnRad ID: 12268 [Observed weekly source check]
- (5) Canberra Cronos tool & equipment monitors located in dosimetry and at several RCA exit points. EnRad IDs: 12473, 12950, and 13456 [Observed weekly source check]

- (6) Canberra GEM-5 (gamma) portal monitors located at the protected area exit. EnRad IDs: 13457 [Observed weekly source check]
- (7) Canberra GEM-5 (gamma) portal monitors located in dosimetry and at the RCA exit. EnRad IDs: 10800 and 13450 [Observed weekly source check]
- (8) Portable friskers located at various locations in the auxiliary building and at the RCA exit
- (9) Ludlum Model 3030P alpha/beta scaler located at the main RCA exit

Calibration and Testing Program (IP Section 03.02) (15 Samples)

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

- (1) Ludlum Model 9-3 Ion Chamber, SN:279916 (EnRad ID:10228), Cal. Date: 08/26/2020
- (2) Canberra iCAM Alpha/Beta Air Monitors, SN:6050 (EnRad ID:13217), Cal. Date: 12/08/2020; SN:6185 (EnRad ID:13483), Cal. Date: 11/12/2020
- (3) Canberra Sirius-5PB Hand/Foot Monitor, SN:2006-151 (EnRad:13453), Cal. Date: 10/10/2020
- (4) Rotem Ind. AMP-100 Area Monitor, SN:5013-056 (EnRad ID:12404), Cal. Date: 06/18/2020
- (5) Canberra Argos-5AB, SN:1111-166 (EnRad ID:10244), Cal. Dates: 07/24/2019 and 07/17/2020
- (6) Canberra Cronos-1, SN:1312-359 (EnRad ID:12473), Cal. Dates: 08/28/2019 and 07/14/2020
- (7) Canberra GEM-5 Whole Body Counter, SN:1409-172 (EnRad ID:10798), Cal. Dates: 01/15/2020 and 12/08/2020
- (8) RM-3589SA, High Range Containment Post Accident Monitor, Cal. Dates: 10/20/2019 and 05/08/2021
- (9) Ludlum Model 9-3 Ion Chamber, SN: 308350 (EnRad ID: 07650), Cal. Dates: 02/18/2019 and 06/08/2020
- (10) HNPFS1/Fastscan 1, 11/13/2020
- (11) HNPFS2/Fastscan 2, 11/13/2020
- (12) Gamma Spectroscopy System Detector # 4, SN: 54-P51384A, Cal. Dates: 09/16/2019 and 08/05/2020
- (13) Gas Flow Proportional counter, Tennelec 1, SN: 0614521-1, Cal Date: 06/24/2019 and 07/30/20
- (14) RM-3590SB High Range Containment Post Accident Monitor, Work Order (WO) 2039494001, 05/08/2021
- (15) RM-3566B, Spent Fuel Building North, Cal Dates: WO 2028881601, 06/13/2019 and WO 2039609601, 03/03/2021

Effluent Monitoring Calibration and Testing Program Sample (IP Sample 03.03) (2 Samples)

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

- (1) RM-3541, Waste Monitor Tank (liquid radwaste effluent release) Radiation Monitor - WO 2028079101, 05/02/2019 and WO 20389250 01, 12/02/2020
- (2) RM-3509-1SA, Plant Vent Stack Accident Monitor - WO 2022379401, 01/14/2019 and WO 2035144401, 11/11/2020

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

MS05: Safety System Functional Failures (SSFFs) Sample (IP Section 03.04) (1 Sample)

- (1) April 2020 through March 2021

BI01: Reactor Coolant System (RCS) Specific Activity Sample (IP Section 03.10) (1 Sample)

- (1) April 2020 through March 2021

BI02: RCS Leak Rate Sample (IP Section 03.11) (1 Sample)

- (1) April 2020 through March 2021

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

- (1) November 2020 through March 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 2020 through February 2021

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 equipment and human performance that might be indicative of a more significant safety issue.

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 issue:

- (1) 'B' RHR pump motor breaker failed to operate due to loose wire in breaker charging spring motor mechanism on March 29, 2021 (NCR 02376252)

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On July 19, 2021, the inspectors presented the integrated inspection results to Ms. Kim Maza, Site Vice President and other members of the licensee staff.
- On May 18, 2021, the inspectors presented the radiation protection inspection results to Ms. Kim Maza, Site Vice President and other members of the licensee staff.
- On May 14, 2021, the inspectors presented the Unit 1 inservice inspection results to Mr. John Dills, Plant Manager and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04	Drawings	CPL-2165-S-0544	Simplified Flow Diagram Feedwater System Unit 1	Rev. 40
71111.04	Procedures	OP-137	Auxiliary Feedwater System	Rev. 046
71111.04	Procedures	OP-148	Essential Services Chilled Water System	Rev. 82
71111.04	Procedures	OST-1411	Auxiliary Feedwater Pump 1X-SAB Operability Test Quarterly Interval Mode 1, 2, 3	Rev. 052
71111.05	Fire Plans	CSD-HNP-PFP-CNMT	Containment Building Pre-Fire Plan	Rev. 0
71111.05	Fire Plans	CSD-HNP-PFP-DGB	Diesel Generator Building Pre-Fire Plan	Rev. 1
71111.05	Fire Plans	CSD-HNP-PFP-RAB-190-216	Reactor Auxiliary Building Elevations 190 and 216 Pre-Fire Plan	Rev. 1
71111.05	Fire Plans	CSD-HNP-PFP-RAB-261	Reactor Auxiliary Building Elevation 261 Pre-Fire Plan	Rev. 1
71111.05	Fire Plans	CSD-HNP-PFP-RAB-286	Reactor Auxiliary Building Elevation 286 Pre-Fire Plan	Rev. 1
71111.05	Fire Plans	CSD-HNP-PFP-SEC	Out Building Pre-Fire Plan	Rev. 8
71111.06	Drawings	CAR 2166-B-058, Index 1, Sheet 1 of 5	Manhole & Manhole Details	Rev. 27
71111.06	Drawings	CAR 2166-G-0055, Sheet S01	Yard Duct Runs Unit 1	Rev. 26
71111.06	Procedures	AD-EG-ALL-1615	Cable Aging Management Program - Implementation	Rev. 3
71111.06	Procedures	AP-046	Control of Environmental Protective Features	Rev. 9
71111.06	Work Orders	WO 20354399	Inspect manholes and cables associated with manholes M70A-SA, M70B-SA, M71A-SA, and M71B-SA	5/18-20/2021
71111.07A	Work Orders	WO 20131151	'A' ESCW condenser tube inspections, cleaning, and tube plugging	5/1-3/2021
71111.07A	Work Orders	WO 20335718	'A' CCW heat exchanger inspections, tube cleaning, and plugging	5/1-3/2021
71111.08P	Calibration Records		Parker Research Corporation Certification: MT Contour Probe (SN 29738)	3/5/20

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71111.08P	Calibration Records		Calibration Standard Inspection Log: UT Cal Block (No. UT-20-2)	1/27/86
71111.08P	Calibration Records	742581	Standards Laboratory Instrument Certification: Digital Thermometer (SN G507831)	10/27/2020
71111.08P	Corrective Action Documents	AR02379773	1RH-42-1HD1 Discolored Boron	04/26/2021
71111.08P	Engineering Evaluations		Harris Steam Generator H1R23 Skipped Inspection Cycle Outage Review	Rev. 0
71111.08P	Miscellaneous		Certificate of Method Qualification: UT II-N (Jensen)	2/19/2020
71111.08P	Miscellaneous		Visual Acuity Record (Jensen)	6/2/2020
71111.08P	Miscellaneous		Visual Acuity Record (Regan)	2/4/21
71111.08P	Miscellaneous		Certificate of Method Qualification: UT II-N (Regan)	4/13/2020
71111.08P	Miscellaneous		Magnaflux Certification: Ultragel II Couplant (Batch 20G038)	07/24/2020
71111.08P	Miscellaneous		Visual Acuity Record (May)	12/3/2020
71111.08P	Miscellaneous		Certificate of Method Qualification: UT II-N (May)	8/5/2020
71111.08P	Miscellaneous		Curtiss-Wright Personnel Certification Statement: UT III (Blechinger)	12/09/2020
71111.08P	Miscellaneous		Curtiss-Wright Certification of Visual Acuity and Color Vision per LMT Procedure PVE-1 (Blechinger)	07/20/2020
71111.08P	Miscellaneous		Magnaflux Certification: Spotcheck Penetrant SKL-SP2 (Batch 17B04K)	02/08/2017
71111.08P	Miscellaneous		Certificate of Method Qualification: MT II-N (Ransom)	10/5/20
71111.08P	Miscellaneous		Curtiss-Wright Personnel Certification Statement: PT III (Blechinger)	12/09/2020
71111.08P	Miscellaneous		Magnaflux Certification: Spotcheck Developer SKD-S2 (Batch 18A10K)	01/12/2018
71111.08P	Miscellaneous		Magnaflux Certification: Spotcheck Cleaner SKC-S (Batch 18G14K)	07/27/2018
71111.08P	Miscellaneous		Visual Acuity Record (Ransom)	7/30/2020
71111.08P	Miscellaneous	193A	Procedure Qualification Record	11/10/93
71111.08P	Miscellaneous	GTSM0101-01	ASME Section IX Welding Procedure Specification	Rev. 10
71111.08P	Miscellaneous	GTSM0101-01	Record of Welder Performance Qualification Test – ASME Section IX Groove Weld (Patterson)	10/31/2016
71111.08P	Miscellaneous	L-102E	Procedure Qualification Record	9/30/98

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71111.08P	Miscellaneous	L-104	Procedure Qualification Record	9/26/75
71111.08P	Miscellaneous	L-133	Procedure Qualification Record	7/9/75
71111.08P	Miscellaneous	L-146D	Procedure Qualification Record	7/9/97
71111.08P	NDE Reports	MT-21-001	Magnetic Particle Examination Report (II-SG-001SGB-FWNTSW-05-1)	5/4/2021
71111.08P	NDE Reports	UT-21-011	UT Calibration/Examination Report (II-SI-024SI-FW-587)	4/30/2021
71111.08P	NDE Reports	UT-21-023	UT Calibration/Examination Report (1RC6-47SB)	4/30/2021
71111.08P	Procedures	AD-EG-PWR-1611	Boric Acid Corrosion Control Program – Implementation	Rev. 4
71111.08P	Procedures	NDE-NE-ALL-3101	Magnetic Particle Examination	Rev. 003
71111.08P	Procedures	NDE-NE-ALL-4101	Liquid Penetrant Examination	Rev. 003
71111.08P	Procedures	NDE-NE-ALL-6102	Utilization of PDI-UT-2 Generic Procedure for the Ultrasonic Examination of Austenitic Pipe Welds	Rev. 003
71111.08P	Procedures	NDE-NE-ALL-6106	Ultrasonic Examination of Mid or Large Diameter Piping Welds and Base Materials for Thermal Fatigue Damage	Rev. 002
71111.08P	Procedures	NDE-NE-ALL-6403	Straight Beam Ultrasonic Examination	Rev. 001
71111.08P	Procedures	PD-EG-PWR-1611	Boric Acid Corrosion Control Program	Rev. 1
71111.08P	Procedures	PT-21-003	Liquid Penetrant Examination Report (SI-H-0960-ATT)	4/30/2021
71111.08P	Procedures	TE-MN-PWR-0006	Inspection, Assessment, and Cleanup of Boric Acid on Plant Materials	Rev. 1
71111.08P	Procedures	WLD-EG-ALL-1624	Filler Material Control and Issuance	Rev. 0
71111.08P	Work Orders	WO20330314 02	M,3SW12-84SA-1, Replace WC-2A Condenser SW Return Spool Piece	03/30/21
71111.11Q	Miscellaneous	Reactivity Manipulation Plan	H1C23 Shutdown to Support RFO23	Rev. 0
71111.11Q	Procedures	AD-OP-ALL-1000	Conduct of Operations	Rev. 17
71111.11Q	Procedures	EOP-FR-H.1	Response to Loss of Secondary Heat Sink	Rev. 5
71111.11Q	Procedures	GP-004	Reactor Startup (Mode 3 to Mode 2)	Rev. 67
71111.11Q	Procedures	GP-006	Normal Plant Shutdown from Power Operation to Hot Standby	Rev. 93

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			(Mode 1 to Mode 3)	
71111.11Q	Procedures	GP-008	Draining the Reactor Coolant System	Rev. 49
71111.11Q	Procedures	OMM-001	Operations Administrative Requirements	Rev. 121
71111.13	Procedures	AD-NF-ALL-0501	Electronic Risk Assessment Tool (ERAT)	Rev. 5
71111.13	Procedures	AD-OP-ALL-0201	Protected Equipment	Rev. 8
71111.13	Procedures	AD-OP-ALL-0210	Operational Risk Management	Rev. 1
71111.13	Procedures	AD-WC-ALL-0200	On-Line Work Management	Rev. 19
71111.13	Procedures	AD-WC-ALL-0240	On-Line Risk Management Process	Rev. 19
71111.13	Procedures	AD-WC-ALL-0410	Work Activity Integrated Risk Management	Rev. 11
71111.13	Procedures	AD-WC-ALL-0420	Shutdown Risk Management	Rev. 7
71111.13	Procedures	AD-WC-HNP-0420	HNP Shutdown Risk Management	Rev. 6
71111.18	Corrective Action Documents	NCR 02382264	Multiple control rods have Data A alarms	5/13/2021
71111.18	Engineering Evaluations	Action Request 02324970	10 CFR 50.59 screening for EC 416783	4/13/2020
71111.18	Engineering Evaluations	Action Request 02382090	10 CFR 50.59 screening for EC 419555	5/12/2021
71111.18	Procedures	AD-EG-ALL-1110	Design Review Requirements	Rev. 9
71111.18	Procedures	AD-EG-ALL-1133	Preparation and Control of Design Equivalent Change Engineering Changes	Rev. 14
71111.18	Procedures	AD-EG-ALL-1155	Post Modification Testing	Rev. 4
71111.18	Work Orders	WO 20382390	Replacement of valve 1CC-252 under EC 416783	5/11/2021
71111.18	Work Orders	WO 20467532	Install temporary modification EC 419555	5/20/2021
71111.19	Procedures	PLP-400	Post Maintenance Testing	Rev. 64
71111.19	Work Orders	WO 20433900	Annual Preventive Maintenance on the Dedicated Shutdown Diesel Generator	6/9/2021
71111.19	Work Orders	WO 20458786	'A' RHR pump motor breaker maintenance	4/19/2021
71111.19	Work Orders	WOs 13498345 and 20397258	B ESW pump stuffing box and cyclone separator cleaning and replacement of solenoid associated with valve 1SW-118	6/29/2021
71111.19	Work Orders	WOs 20384425 and 20394043	Replacement of 125 Volt DC battery 1A-SA	5/8/2021
71111.19	Work Orders	WOs 20391648	Replace HGBV actuator and clean PRV motor potentiometer	6/22/2021

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		and 20447017	on 'A' ESCW chiller	
71111.20	Procedures	AP-545	Containment Entries	Rev. 62
71111.20	Procedures	FHP-010	Core Loading Verification	Rev. 22
71111.20	Procedures	FHP-014	Fuel and Insert Shuffle Sequences	Rev. 66
71111.20	Procedures	FHP-024	HNP Spent Fuel Handling Operations	Rev. 19
71111.20	Procedures	GP-001	Reactor Coolant System Fill and Vent Mode 5	Rev. 44
71111.20	Procedures	GP-002	Normal Plant Heatup from Cold Solid to Hot Subcritical Mode 5 to Mode 3	Rev. 77
71111.20	Procedures	GP-004	Reactor Startup (Mode 3 to Mode 2)	Rev. 67
71111.20	Procedures	GP-005	Power Operation (Mode 2 to Mode 1)	Rev. 113
71111.20	Procedures	GP-006	Normal Plant Shutdown from Power Operation to Hot Standby (Mode 1 to Mode 3)	Rev. 97
71111.20	Procedures	GP-007	Normal Plant Cooldown Mode 3 to Mode 5	Rev. 74
71111.20	Procedures	GP-008	Draining the Reactor Coolant System	Rev. 49
71111.20	Procedures	GP-009	Refueling Cavity Fill, Refueling and Drain of the Refueling Cavity Modes 5-6-5	Rev. 71
71111.20	Procedures	OMM-031	Implementation of Containment Closure	Rev. 12
71111.20	Procedures	OPT-1519	Containment Visual Inspection for Boron and Evaluation of Containment Sump Inleakage Every Refueling Outage Shutdown Mode 3	Rev. 13
71111.20	Procedures	OST-1081	Containment Visual Inspection When Containment Integrity is Required Mode 5	Rev. 22
71111.20	Self-Assessments	AR 02365680	Refueling Outage Independent Review Team (IRT) for H1R23	3/30/2021
71124.01	Corrective Action Documents		Harris Nuclear Plant Rapid Notification Message - Harris Stand Down	05/11/2021
71124.01	Corrective Action Documents	NCR 02368631		
71124.01	Corrective Action Documents Resulting from Inspection	02381888		05/10/2021
71124.01	Radiation Surveys	HNP-M-20210424-20	RCB 250 Upper & Lower Reactor Cavity	04/24/2021
71124.01	Radiation Work	RWP 1009	Miscellaneous Maintenance RCB (HRA Access)	Rev. 12

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	Permits (RWPs)			
71124.01	Radiation Work Permits (RWPs)	RWP1032	N42 Detector and Cable Replacement	Rev. 0
71124.02	ALARA Plans		Harris Nuclear Plant ALARA Long Range Plan 2020 - 2025	Rev. 9
71124.02	ALARA Plans		Harris Nuclear Plant H1R22 Refueling Outage RP/ALARA Report	
71124.02	ALARA Plans		Harris Nuclear Plant H1R21 Refueling Outage RP/ALARA Report	08/02/2018
71124.02	ALARA Plans	2021HNP123R1-003	Seal Table Activities	Revs. 0 and 1
71124.02	ALARA Plans	2021HNP123R1-005	Refueling Activities	Rev. 0
71124.02	ALARA Plans	2021HNPH123-005	N42 Detector Replacement	Rev. 0
71124.02	Corrective Action Documents	NCR 02361456, 02366130, and 02370684	Corrective Action Reports	Various
71124.02	Procedures	AD-CP-ALL-0012	Radiation Source Term	Rev. 1
71124.02	Procedures	AD-MN-ALL-0005	Nuclear Planning	Rev. 21
71124.02	Procedures	AD-RP-ALL-2000	PREPARATION AND MANAGEMENT OF RADIATION WORK PERMITS (RWP)	Rev. 4
71124.02	Procedures	AD-RP-ALL-2006	RADIATION PROTECTION RISK MANAGEMENT PROCESS	Rev. 6
71124.02	Procedures	AD-RP-ALL-2019	TEDE-ALARA EVALUATIONS AND DAC-HOUR TRACKING	Rev. 3
71124.02	Procedures	AD-RP-ALL-9000	ALARA Program	Rev. 9
71124.02	Procedures	AD-RP-ALL-9001	ALARA Planning	Rev. 5
71124.02	Procedures	AD-RP-ALL-9002	SENTINEL ALARA MANAGEMENT	Rev. 1
71124.02	Procedures	AD-RP-ALL-9007	RADIATION PROTECTION SOURCE TERM REVIEW	Rev. 2
71124.02	Procedures	AD-WC-ALL-0200	ON-LINE WORK MANAGEMENT	Rev. 14
71124.02	Procedures	CSD-CP-HNP-0001	Harris Primary Chemistry Strategic Plan	Rev. 5
71124.02	Procedures	MNT-NGGC-0003	Radiation Shielding Use	Rev. 17
71124.02	Radiation Surveys	HNP-M-20210427-18	Retracting Flux Thimbles	04/27/2021
71124.02	Radiation Surveys	HNP-M-	H1R23 Flux Thimble Replacement/Seal Table	05/01/2021

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		20210501-1		
71124.02	Radiation Surveys	HNP-M-20210501-13	Thimble Tube Cutting Tool	05/01/2021
71124.02	Radiation Surveys	HNP-M-20210503-27	Retracting Thimbles ~3" / Seal Table Room	05/03/2021
71124.02	Radiation Surveys	HNP-M-20210507-13	Tri-Nuke and Tri-Nuke Housing [underwater survey]	05/07/2021
71124.02	Radiation Surveys	HNP-M-20210509-36	Seal Table Room / Thimble Insertion	05/09/2021
71124.02	Radiation Work Permits (RWPs)	RWPs 1010, 1013, 1015, 1016, 1022, 1024, 1032, 1036, and 1040	Radiation Work Permits	Various
71124.02	Work Orders	Work Orders 20394854-01, 20362767-02, 20362768-02, 20375246-01, and 20420372-01	Work Orders	Various
71124.03	Corrective Action Documents Resulting from Inspection	02380246		04/28/2021
71124.03	Procedures	AD-RP-ALL-0008	Use and Control of HEPA Filtration and Vacuum Equipment	Rev. 0
71124.03	Procedures	AD-RP-ALL-2014	Work in Alpha Environments	Rev. 7
71124.03	Procedures	AD-RP-ALL-6001	Quantitative Fit Testing	Rev. 3
71124.03	Procedures	AD-RP-ALL-6002	Inspections of Self-Contained Breathing Apparatus (SCBA and Associated Equipment)	Rev. 2
71124.03	Procedures	HPP-630	Respiratory Protection	Rev. 35
71124.04	Procedures	AD-RP-ALL-4010	Internal Dose Assessment	Rev. 3
71124.04	Procedures	AD-RP-ALL-4011	In Vitro Bioassay	Rev. 3
71124.04	Procedures	CSD-RP-HNP-0001	Alpha Radiation Characterization	Rev. 005
71124.05	Corrective Action	NCR 02334496,	Corrective Action Reports	Various

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	Documents	02334551, 02358756, and 02363438		
71124.05	Engineering Changes	EC 415527	Evaluate Area Radiation Monitor Calibration Reference Values	Rev. 0
71124.05	Engineering Changes	EC 66216	Radiation Monitoring System (RMS) Migration to the Distributed I&C System Platform (DICSP) / Abandonment of Non-Critical Plant Radiation Monitors (RM-80s)	Rev. 147
71124.05	Procedures	ENRAD 802, 808, 820, 823, 826, 828, 831, 839, 841, 842, 854, 855, 857, and 862	ENRAD 802, 808, 820, 823, 826, 828, 831, 839, 841, 842, 854, 855, 857, and 862	Various
71124.05	Procedures	MST-I0327	Waste Monitor Tanks and Waste Evaporator Condensate Tanks Discharge Radiation Monitor REM-21WL-3541 Calibration	Rev. 15
71124.05	Procedures	MST-I0376	Plant Vent Stack Accident Monitor RM-21AV-3509-1SA Calibration	Rev. 25
71124.05	Procedures	MST-I0393	Spent Fuel Pool North Area Radiation Monitor RM-*1FR-3566ASA Calibration	Rev. 12
71124.05	Procedures	MST-I0395	Spent Fuel Pool North Area Radiation Monitor RM-*1FR-3566BSB Calibration	Rev. 11
71124.05	Procedures	MST-I0401	Containment High Range Accident Monitor RM-01CR-3589SA Calibration	Rev. 16
71124.05	Procedures	MST-I0403	Containment High Range Accident Monitor RM-01CR-3590SB Calibration	Rev. 18
71151	Miscellaneous	2021 Liquid and Gaseous Effluents Report (YTD-March 10, 2021)	2021 Liquid and Gaseous Effluents Report (YTD)	03/10/2021
71151	Miscellaneous	AR3749 Dose Alarm Report (November 2020 - April 19, 2021)	AR3749 Dose Alarm Report (November 2020 - April 19, 2021)	04/19/2021

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71151	Miscellaneous	AR3750 Dose Rate Alarms Report (November 2020 - April 19, 2021)	AR3750 Dose Rate Alarms Report (November 2020 – April 19, 2021)	04/19/2021
71151	Miscellaneous	Licensee Event Reports between 2020 - 2021		
71151	Miscellaneous	Operator Log Entries between 2020 - 2021		
71151	Procedures	AD-PI-ALL-0700	Performance Indicators	Rev. 4
71151	Procedures	AD-PI-ALL-0700	PERFORMANCE INDICATORS	Rev. 4
71151	Procedures	AD-RP-ALL-1101	PERFORMANCE INDICATORS (PI) FOR THE OCCUPATIONAL AND PUBLIC RADIATION SAFETY CORNERSTONES	Rev. 0
71151	Procedures	OST-1026	Reactor Coolant System Leakage Evaluation, Computer Calculation Daily Interval, Mode 1-2-3-4	Rev. 54
71151	Procedures	RCP-711	Dose Equivalent Iodine 131 Calculation	Rev. 9
71151	Procedures	RST-204	Reactor Coolant System Chemistry and Radiochemistry Surveillance	Rev. 32
71152	Procedures	AD-PI-ALL-0100	Corrective Action Program	Rev. 25
71152	Procedures	AD-PI-ALL-0101	Root Cause Evaluation	Revs. 7 and 8
71152	Procedures	AD-PI-ALL-0106	Cause Investigation Checklists	Revs. 5 and 6