



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

August 5, 2022

Mr. John A. Krakuszeski  
Site Vice President  
Duke Energy Progress, LLC  
8470 River Road SE  
M/C BNP04  
Southport, NC 28461-0429

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – INTEGRATED INSPECTION  
REPORT 05000324/2022002 AND 05000325/2022002

Dear Mr. Krakuszeski:

On June 30, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Brunswick Steam Electric Plant. On July 20, 2022, 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,

A handwritten signature in dark ink, appearing to read "Matthew S. Fannon".

Signed by Fannon, Matthew  
on 08/05/22

Matthew S. Fannon, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket Nos. 05000324 and 05000325  
License Nos. DPR-62 and DPR-71

Enclosure:  
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – INTEGRATED INSPECTION  
REPORT 05000324/2022002 AND 05000325/2022002 dated August 5, 2022

**DISTRIBUTION:**

M. Kowal, RII  
S. Price, RII  
N. Doiley, RII  
RidsNrrPMBrunswick  
RidsNrrDRO  
PUBLIC

**ADAMS ACCESSION NUMBER: ML22216A254**

<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	RII/DRP		
NAME	G. Smith	A. Wilson	M. Fannon		
DATE	8/4/2022	8/05/2022	8/5/2022		

OFFICIAL RECORD COPY

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

Docket Numbers: 05000324 and 05000325

License Numbers: DPR-62 and DPR-71

Report Numbers: 05000324/2022002 and 05000325/2022002

Enterprise Identifier: I-2022-002-0016

Licensee: Duke Energy Progress, LLC

Facility: Brunswick Steam Electric Plant

Location: Southport, NC

Inspection Dates: April 01, 2022 to June 30, 2022

Inspectors: C. Curran, Resident Inspector  
A. Rosebrook, Senior Reactor Analyst  
M. Schwieg, Senior Reactor Inspector  
J. Seat, Senior Project Engineer  
G. Smith, Senior Resident Inspector  
J. Steward, Senior Resident Inspector

Approved By: Matthew S. Fannon, 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 Brunswick Steam Electric 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 began the period shutdown for a refueling outage. On April 2, 2022, the reactor was taken critical and a plant startup was commenced. On April 4, the main generator output breaker was closed and a power ascension was commenced. On April 5, power was stabilized at 30 percent rated thermal power (RTP) in order to perform condenser dimple plug testing to locate leaking water-box tubes. Following completion of dimple plug testing, a power ascension was commenced and Unit 1 reached 100 percent (full) RTP on April 15 following two rod improvements. Unit 1 continued to operate at full RTP until April 19 when power was reduced to 96 percent RTP due to a failure of a cell in the variable frequency drive (VFD) associated with the 'B' recirculation pump motor. Following the bypass of the 1B2 cell in the 'B' VFD, Unit 1 was restored to full RTP on the same day and continued to operate there until May 19 when power was reduced to 80 percent RTP due to a loss of one of the four Unit 1 off-site power lines (Weatherspoon). Following repairs to the Weatherspoon line, Unit 1 was restored to full RTP on May 21 and continued to operate at or near full RTP for the remainder of the inspection period.

Unit 2 began the period at full RTP and operated there until May 7, when power was reduced to 70 percent RTP in order to insert a second suppression rod due to an existing fuel leak. Following insertion of a second suppression rod, Unit 2 was restored to full power on May 8 and continued to operate there until May 20 when power was reduced to 70 percent RTP for the purpose of performing a control rod sequence exchange as well as insert a third suppression rod. Following the sequence exchange and suppression rod insertion, Unit 2 was restored to full RTP on May 25 following one rod improvement. Unit 2 continued to operate at or near full RTP for the remainder of the inspection period.

## INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors performed activities described in IMC 2515, Appendix D, "Plant Status," observed risk significant activities, and completed on-site portions of IPs. 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.

## REACTOR SAFETY

### 71111.01 - Adverse Weather Protection

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

- (1) From April 12 through April 14, 2022, the inspectors evaluated readiness for seasonal extreme weather conditions prior to the onset of seasonal high temperatures for the following systems:

offsite AC power systems and onsite alternate AC systems, including the switchyard and transformers

#### 71111.04 - Equipment Alignment

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

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

- (1) 2C and 2E main control room (MCR) heating, ventilating, air conditioning (HVAC) units while the 1D MCR HVAC unit was out-of-service (OOS) for replacement on April 26, 2022
- (2) Unit 2 high pressure coolant injection (HPCI) system while the Unit 2 reactor core isolation cooling system was OOS for planned maintenance on April 26, 2022
- (3) Unit 2 nuclear service water and conventional service water (CSW) while Unit 2 'B' CSW pump was OOS for planned maintenance on May 11, 2022
- (4) Unit 2 'B' residual heat removal (RHR) train while 'A' train was OOS for planned maintenance on May 25, 2022
- (5) emergency diesel generators (EDGs) -2, -3, and -4 while EDG-1 was OOS for a maintenance outage on June 22, 2022

#### 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) Fire area RB2-01-D in the Unit 2 southeast RHR room on April 14, 2022
- (2) Control building HVAC room on April 26, 2022
- (3) 1A, 1B, 2A, 2B battery rooms in the 23' elevation of the control building on May 5, 2022
- (4) Unit 1 reactor building -17 elevation on May 5, 2022
- (5) Service water building 20' and 4' elevations on May 10, 2022
- (6) Unit 1 reactor building 20' elevation on May 11, 2022

##### Fire Brigade Drill Performance Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated the onsite fire brigade training and performance during announced fire drills conducted on May 18, 2022, in the service building HVAC room and on May 24, 2022, in the insulator shop (yard area).

#### 71111.06 - Flood Protection Measures

##### Inspection Activities - Internal Flooding (IP Section 03.01) (2 Samples)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) safety-related manholes (NS3, NS2, 5NW) on April 21, 2022
- (2) emergency diesel generator building and 4-day fuel oil tank rooms on May 18, 2022

## 71111.11Q - Licensed Operator Regualification Program and Licensed Operator Performance

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

- (1) The inspectors observed and evaluated licensed operator performance in the control room during Unit 1 reactor startup on April 2, 2022.

### Licensed Operator Regualification Training/Examinations (IP Section 03.02) (2 Samples)

- (1) The inspectors observed and evaluated two operating crews during a simulator exam on April 21, 2022. The simulator exam was part of the licensed operator continuing training cycle 2. The scenario consisted of a recirculation loop flow transmitter failure, a reactor building closed cooling water heat exchanger leak, a loss of off-site power, and a small break loss of coolant accident.
- (2) On May 19, 2022, the inspectors completed a review and evaluation of a written exam given in licensed operator continuing training cycle 1 conducted during the first quarter of 2022.

## 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) relay failure (high contact resistance) that resulted in a spurious partial Group 6 and secondary containment isolation (NCR 2410783) on January 4, 2022
- (2) EDG-1 maintenance outage conducted from June 20 through June 29, 2022

## 71111.13 - Maintenance Risk Assessments and Emergent Work Control

### Risk Assessment and Management Sample (IP Section 03.01) (6 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) emergent failure of reactor building radiation monitor on April 14, 2022
- (2) emergent steam leak in the Unit 2 main steam isolation valve (MSIV) pit discovered on May 8, 2022
- (3) elevated risk due to 2B CSW pump strainer planned maintenance from May 9 through May 12, 2022
- (4) emergent failure of 1C CSW pump strainer shear pin on May 11, 2022
- (5) elevated risk due to Unit 1 'A' train RHR outage on May 25, 2022
- (6) elevated risk due to EDG-1 maintenance outage on June 23, 2022

## 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) 2-B32-F031B actuator rating exceeded (NCR 2414157)
- (2) RHR valve weight analysis discrepancy (NCR 2417296)
- (3) deterioration of concrete wall in Unit 2 reactor building (NCR 2305749)
- (4) reanalysis of HPCI pump time limit to rated speed and flow (NCR 2419332)

#### 71111.18 - Plant Modifications

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

The inspectors evaluated the following temporary or permanent modifications:

- (1) control building HVAC modification (Engineering Change 417875) completed on June 16, 2022

#### 71111.19 - Post-Maintenance Testing

##### Post-Maintenance Test Sample (IP Section 03.01) (7 Samples)

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

- (1) OPT-09.2 HPCI operability test after replacement of the flow controller FIC-R600 in accordance with (IAW) work order (WO) 20304709
- (2) 2B standby gas treatment system (SBGT) system following planned maintenance to replace drain piping IAW WO 20372477
- (3) 1A SBGT system following planned maintenance to recoat drain line piping IAW WO 20377862
- (4) 2B CSW pump strainer planned maintenance and inspection IAW WO's 20399034 and 20412939
- (5) OPT-09.2, HPCI operability test following replacement of the Unit 2 HPCI EGR servo motor IAW WO 20525661
- (6) G31-F001, reactor water cleanup (RWCU) inboard suction valve following valve replacement IAW WO 20377862
- (7) G31-F004, RWCU outboard suction valve following valve replacement IAW WO 20377862

#### 71111.20 - Refueling and Other Outage Activities

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

- (1) The inspectors evaluated Unit 1 refueling outage (B1R24) activities from March 5, 2022 to April 4, 2022, when the main generator was synched to the grid.

#### 71111.22 - Surveillance Testing



The inspectors evaluated the following surveillance testing activities to verify system operability and/or functionality:

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

- (1) Loss of offsite power/loss of coolant accident (LOOP/LOCA) test on April 7, 2022

Inservice Testing (IP Section 03.01) (1 Sample)

- (1) Unit 2 'B' RHR quarterly surveillance on June 4, 2022

RCS Leakage Detection Testing (IP Section 03.01) (1 Sample)

- (1) Unit 1 reactor coolant system (RCS) leakage IAW 00I-02.3, "Drywell Leakage Control," on June 30, 2022

71114.06 - Drill Evaluation

Drill/Training Evolution Observation (IP Section 03.02) (1 Sample)

The inspectors evaluated:

- (1) A simulator examination (training evolution) given to two separate operating crews on April 22, 2022. The simulator examination included a drill/exercise performance opportunity.

**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 02.04) (2 Samples)

- (1) Unit 1 (April 1, 2021 through March 31, 2022)
- (2) Unit 2 (April 1, 2021 through March 31, 2022)

MS06: Emergency AC Power Systems (IP Section 02.05) (2 Samples)

- (1) Unit 1 (April 1, 2021 through March 31, 2022)
- (2) Unit 2 (April 1, 2021 through March 31, 2022)

MS10: Cooling Water Support Systems (IP Section 02.09) (2 Samples)

- (1) Unit 1 (April 1, 2021 through March 31, 2022)
- (2) Unit 2 (April 1, 2021 through March 31, 2022)

71152A - Annual Follow-up Problem Identification and Resolution

Annual Follow-up of Selected Issues (Section 03.03) (1 Sample)

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

- (1) NCR 2379462: Reactor recirculation pump seal premature failure

#### 71152S - Semiannual Trend Problem Identification and Resolution

##### Semiannual Trend Review (Section 03.02) (1 Sample)

- (1) The inspectors reviewed the licensee's corrective action program for potential adverse trends in operations and maintenance that might be indicative of a more significant safety issue.

### **INSPECTION RESULTS**

Observation: Reactor Recirculation Pump Seal Premature Failure	71152A
<p>The inspectors conducted a detailed review of NCR 2379462, "Reactor Recirculation Pump Seal Premature Failure." The inspectors chose this sample because it dealt with the barrier integrity cornerstone involving the recirculation pump seals. On February 15, 2021, the second stage seal of the Unit 2 'B' recirculation pump was noted to be degrading. Based on the rate of degradation, the decision was made to replace the seal package during the upcoming March 2021 refueling outage. Following replacement of both the 'A' and 'B' seal packages during the refueling outage, operators noted a similar degrading second stage seal on the Unit 1 'B' recirculation pump on April 19, 2021. The decision was made to enter a maintenance outage on April 30 as the rate of seal degradation was excessive and the seal would not last until the next refueling outage in March 2022. The recirculation pump seals have an expected life of six years, yet the inspectors observed that the seals are degrading prior to reaching the end of their expected life cycle.</p> <p>The licensee performed a detailed root cause analysis in order to understand the failure mechanism and develop corrective actions to address the deficiencies. The root cause was determined to be self-induced electro-corrosion of the second stage secondary seal. Several corrective actions have been implemented including the replacement of all 4 seals on both units. The inspectors noted that this will be a long-term effort as the design changes to address the direct cause of the electro-corrosion are still being developed. The inspectors determined that the licensee's plan to address this issue was reasonably commensurate with the safety significance of the equipment that might be affected by this type of equipment failure.</p>	
Observation: Semi-Annual Trend Review	71152S
<p>The inspectors performed a trend analysis on the licensee's corrective action program to identify trends that could indicate the existence of a more significant safety issue. The inspectors focused their review on equipment performance trends, but also considered the results of inspector daily condition report screenings, licensee trending efforts, and licensee human performance results. The review nominally considered the 6-month period of January - June 2022, although some examples extended beyond those dates when the scope of the trend warranted. The inspectors compared their results with the licensee's analysis of trends. Additionally, the inspectors reviewed the adequacy of corrective actions associated with a sample of the issues identified in the licensee's trend reports. The inspectors also reviewed corrective action documents that were processed by the licensee to identify potential adverse</p>	

trends in the condition of structures, systems, and/or components as evidenced by acceptance of long-standing non-conforming or degraded conditions.

During this review, the inspectors noted the reemergence of a negative trend with respect to reactor fuel performance. In Brunswick inspection report 05000324/2019002 and 05000325/2019002 (ADAMS Accession No. ML19221B744), the inspectors noted a negative trend based on three separate fuel cycles experiencing fuel failures. Following these failures, the licensee aggressively addressed the failures by performing detailed root cause evaluations. No definitive cause was noted. However, some of the failures were attributed to potential negative effects from foreign material. Additionally, one failure was attributed to a manufacturing defect. In order to address the foreign material, the licensee chose to clean all fuel assemblies during the upcoming refueling outages as well as perform a foreign object search and retrieval (FOSAR) activity. As of June 30, 2022, the fuel cleaning and FOSAR activities have been completed on both Unit 1 and Unit 2 during the most recent refueling outages. Since the initial determination of a negative trend in 2019, the inspectors noted two more cycles (Unit 1 in 2020 and Unit 2 in 2022) where fuel failures were encountered. Despite the fuel cleaning and FOSAR efforts, Unit 2 recently experienced another fuel failure in April 2022 which necessitated flux suppression. Even given the flux suppression, the Unit 2 reactor coolant system activity has remained elevated. In summary, the condition reports (CRs) noted below document that five of the past seven fuel cycles on Unit 1 and Unit 2 experienced fuel leaks. Fuel leaks typically drive the licensee to suppress the neutron flux of the affected fuel assembly by inserting control rod(s) in the vicinity of the fuel leak. The inserted control rod can result in reduction of margin to thermal limits, limit rates of power increase, and increase the number of rod programming changes. The inspectors discussed this negative trend with the licensee.

- CR 2416401 (Unit 2, 2022)
- CR 2323829 (Unit 1, 2020)
- CR 2276790 (Unit 1, 2019)
- CR 2176522 (Unit 2, 2018)
- CR 2078244 (Unit 1, 2016)

## **EXIT MEETINGS AND DEBRIEFS**

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

- On July 20, 2022, the inspectors presented the integrated inspection results to John A. Krakuszeski and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.01	Miscellaneous	SD-50	230 KV Electric Distribution System	01/14/2020
	Procedures	CSD-EG-ALL-2000.2	Nuclear Switchyard Operating Guidelines	08/30/2018
71111.04	Miscellaneous	SD-37	Control Building Heating, Ventilation, and Air-Conditioning System	16
		SD-39	Emergency Diesel Generators	22
	Procedures	0OP-37	Control Building Ventilation System Operating Procedure	75
		0OP-39	Diesel Generator Operating Procedure	198
		2OP-17	Residual Heat Removal System Operating Procedure	185
		2OP-19	High Pressure Coolant Injection System Operating Procedure	147
		2OP-43	Service Water System Operating Procedure	175
		SD-17	Residual Heat Removal System	20
		SD-19	High Pressure Coolant Injection (HPCI) System	25
		SD-43	Service Water System	27
71111.05	Engineering Changes	288259	Seismic Verification of Fire Protection Piping	05/18/2022
	Fire Plans	CSD-BNP-PFP-0CB	Control Building Pre-Fire Plans	5
		CSD-BNP-PFP-0MBPA	Miscellaneous Buildings Pre-Fire Plans - Protected Area	1
		CSD-BNP-PFP-0PBAA	Power Block Auxiliary Areas Pre-Fire Plans (SW, RW, AOG, TY, EY, PDC, DGS, MCP)	4
	Miscellaneous	0FPP-031	Fire Brigade Staffing Roster and Equipment Requirements	34
		18-F-OS-01	Insulator Shop Fire Drill Scenario Guide	05/18/2022
		21-F-SB-01	Service Building Air HVAC Room Fire Drill Scenario Guide	05/18/2022
	Procedures	0AOP-13.0	Operation During Hurricane, Flood Conditions, Tornado, or Earthquake	73
		0PFP-013	General Fire Plan	55
		0PLP-01.2	Fire Protection System Operability, Action, and Surveillance Requirements	51
		AD-EG-ALL-1520	Transient Combustible Control	13

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		CSD-BNP-PFP-1RB	Reactor Building Prefire Plans	2
71111.06	Corrective Action Documents	555550	Fire Protection Piping Seismic Support Documentation	05/17/2022
		AS 681677-05	Assignment Summary	07/29/2019
	Corrective Action Documents Resulting from Inspection	20537521	Work Order	05/19/2022
	Engineering Evaluations	DBD-144	External and Internal Flooding Topical Design Basis Document	1
		PS-FP-G008	Analysis to Seismically Qualify Select Fire Protection Pipe Supports in the Diesel Generator Building	0
	Miscellaneous	BNP-12-0104	Long Range Plan	05/18/2022
		UFSAR section 3.4.2.2	Diesel Generator Building Internal Flooding Protection	27
	Work Orders	20335906 02	BNP Man Hole Inspection AD-EG-ALL-1214	05/24/2021
		20449286 02	(LR) FOUR YEAR MAN HOLE INSPECTION PER AD-EG-BNP-1214	02
		20449286 02	INSPECT MAN HOLE, DOCUMENT EGR-NGGC-0351 INSPECTION	02
		20449286 02	BNP Man Hole Inspection AD-EG-BNP-1214	10/11/2021
71111.11Q	Miscellaneous	LORX-202	Simulator Guide - Recirculation Loop 'A' flow transmitter failure, RBCCW high radiation, LOOP, Small Break LOCA	10b
		Segment 22-1 Version A	LOCT examination 2022 Cycle 1	01/13/22
		Segment 22-1 Version B	LOCT Examination 2022 Cycle 1	01/19/22
	Procedures	0GP-02	Approach to Criticality and Pressurization of the Reactor	128
71111.12	Procedures	AD-EG-ALL-1210	Maintenance Rule Program	3
		AD-WC-ALL-0200	ON-LINE WORK MANAGMENT	20
		AD-WC-ALL-0250	WORK IMPLEMENTATION AND COMPLETION	15
71111.13	Corrective Action	2426363	Unit 2 MSIV Pit Steam Leak	05/09/2022

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Documents			
	Procedures	0AP-025	BNP Integrated Scheduling	60
		AD-OP-ALL-0201	Protected Equipment	9
		AD-WC-ALL-0200	On-Line Work Management	20
		AD-WC-ALL-0250	Work Implementation and Completion	15
		AD-WC-ALL-0410	Work Activity Integrated Risk Management	13
	Work Orders	20225913	2-MS-F038D-MO, Backseat Valve Potential MSIV Pit Steam Leak	05/10/2022
71111.15	Calculations	0HPCI-0011	HPCI RESPONSE TIME REQUIREMENT	002
	Corrective Action Documents	Action Request: 02414157	2-B32-F031B Actuator Rating Exceeded	01/31/2022
		Action Request: 02417296	RHR Valve Weight Analysis Discrepancy	02/23/2022
	Corrective Action Documents Resulting from Inspection	20226189	Work Request to drive repairs noted during inspection of the Unit 1 South Core Spray Room EL -17'	05/12/2022
		2427216	1-RB1-BLG-EL-17-1 Cosmetic Defect on Unit 1 SCE Concrete Columns	05/12/2022
	Drawings	9527-F-02501	Unit 1 Reactor Building Plan Below Grade EL (-) 17' - 0" General Arrangement	29
		F-01230	Unit 2 Reactor Building Concrete Plan EL 20' - 0" - West	16
	Engineering Evaluations	A/R 02423550	50.59 Screen to Extend HPCI Response Time	Rev 00
		A/R 02423553	10 CFR 50.59 Evaluation to extend HPCI response time	Rev 00
	Operability Evaluations	2305749	Repair Cosmetic Defect Void in Unit 2 Drywell Exterior Wall	05/12/2022
		AD-OP-ALL-0105	OPERABILITY DETERMINATIONS	6
	Procedures	0SPP-CEM500	Installation of Concrete and Grout	25
		AD-OP-ALL-0105	Operability Determinations	6
71111.18	Engineering Changes	EC 417875	50.59 Screen for EC 417875	Rev 00
		EC 417875	CB HVAC Condensing Unit 1D Replacement	Rev 015
	Engineering Evaluations	A/R 2391929	50.59 Screen for EC 417875	Rev 00

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures	PD-EG-ALL-1130	Engineering Change Program	Rev 1
71111.19	Corrective Action Documents Resulting from Inspection	2426126	1-E41-V6 Flow Inst Connection Spraying Leak	05/05/2022
	Procedures	0PLP-20	Post-Maintenance Testing Program	55
		0PM-STR500	R.P. Adams Self-Cleaning Strainers, Model VWS 10 through 40	37
		0PT-09.2	HPCI System Operability Test	153
	Work Orders	20304709	1-E41-FIC-R600, Replace Controller, HPCI Turb Flo Ind Controller	05/03/2022
		20372477	2B SBTG Drain Line Repairs	05/16/2022
		20377862	Recoat 1A SBTG Drain Line Piping	05/20/2022
		20399034, 20412939	2B CSW Strainer maintenance	05/20/2022
		20525661-06	Unit 2 HPCI Servo Replacement	3/12/22
71111.20	Procedures	0GP-02	Approach to Criticality and Pressurization of the Reactor	128
		0GP-03	Unit Startup and Synchronization	98
		0GP-04	Increasing Turbine Load to Rated Power	132
71111.22	Procedures	0OI-02.3	Drywell Leakage Control	9
		0PT-08.2.2B	LPCI/RHR SYSTEM OPERABILITY TEST - LOOP B	110
		0PT-12.1A	No.1 Emergency Diesel Generator LOOP/LOCA Loading Test	11
71114.06	Procedures	AD-EP-ALL-002	NRC Regulatory Assessment Performance Indicator Guideline Emergency Preparedness Cornerstone	7
		AD-EP-ALL-0101	Emergency Classification	3
		CSD-EP-BNP-0101-02	EAL Wallchart (Both Hot and Cold)	4
71151	Engineering Evaluations	BNP-MECH-MSPI	BNP Mitigating System Performance Index Plant Basis Document	2
		BNP-PSA-069	NRC Mitigating System Performance Index (MSPI) PRA Input Document	17
71152A	Procedures	AD-PI-ALL-0100	Corrective Action Program	27
71152S	Procedures	AD-PI-ALL-0100	Corrective Action Program	27

