



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

November 12, 2020

Mr. Frank Payne
Site Vice President
Energy Harbor Nuclear Corp.
Perry Nuclear Power Plant
Reg Affairs–A210
10 Center Road, P. O. Box 97
Perry, OH 44081–0097

SUBJECT: PERRY NUCLEAR POWER PLANT – INTEGRATED INSPECTION REPORT
05000440/2020003 AND 07200069/2020001

Dear Mr. Payne:

On September 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Perry Nuclear Power Plant. On October 22, 2020, 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/

Billy C. Dickson, Jr, Chief
Branch 2
Division of Reactor Projects

Docket Nos. 05000440; 07200069
License No. NPF-58

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Frank Payne from Billy C. Dickson Jr dated November 12, 2020

SUBJECT: PERRY NUCLEAR POWER PLANT – INTEGRATED INSPECTION REPORT
05000440/2020003 AND 07200069/2020001

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

Docket Number: 05000440; 07200069

License Number: NPF-58

Report Number: 05000440/2020003; 07200069/2020001

Enterprise Identifier: I-2020-003-0032

Licensee: Energy Harbor Nuclear Corp.

Facility: Perry Nuclear Power Plant

Location: Perry, OH

Inspection Dates: July 01, 2020 to September 30, 2020

Inspectors: S. Bell, Health Physicist
R. Edwards, Senior Health Physicist
N. Fields, Health Physicist
J. Nance, Operations Engineer
T. Ospino, Resident Inspector
J. Steffes, Senior Resident Inspector

Approved By: Billy C. Dickson, Jr, Chief
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 Perry 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

The plant began the inspection period at rated thermal power. On September 12, 2020, reactor power was lowered to 58 percent to perform a rod sequence exchange. Operators returned the unit to rated thermal power on September 13, 2020. The unit remained at, or near, rated thermal power for the remainder of the inspection period except on the occasions where operators reduced power to maintain condensate demineralizer outlet temperature and high condenser circulating water outlet temperature at or below their respective upper limits due to environmental conditions. The power reductions varied between 1 and 16 percent of rated thermal power and lasted from a few hours to several days.

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 plant status activities described in IMC 2515, Appendix D, "Plant Status," and conducted routine reviews using IP 71152, "Problem Identification and Resolution." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), resident inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time the resident inspectors performed periodic site visits each week and during that time conducted plant status activities as described in IMC 2515, Appendix D; observed risk significant activities, and completed on-site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or 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) (2 Samples)

- (1) Residual heat removal (RHR) system 'C' on July 30, 2020
- (2) Division 1 diesel generator on August 28, 2020

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 downpower for, and during, rod sequence exchange on September 12, 2020

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

- (1) The inspectors observed and evaluated licensed operator performance in the simulator on August 31, 2020

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (1 Sample)

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

- (1) Fire protection system following excessive vibrations observed during motor fire pump functionality test on September 4, 2020

71111.13 - Maintenance Risk Assessments and Emergent Work Control

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

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

- (1) Emergent work and risk assessment associated with the plant process computer upgrade activities between July 1 to August 7, 2020
- (2) Emergent work and risk assessment associated with the overspeed trip work on the high pressure core spray (HPCS) system on August 8, 2020
- (3) Emergent work and risk assessment associated with the unplanned inoperability of the standby liquid control (SLC) system on August 21, 2020
- (4) Emergent work and risk assessment associated with reactor water cleanup system 'A' on September 18 to 20, 2020

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) HPCS ESW 1P45F0552 check valve prompt operability determination on July 13, 2020

- (2) SLC tank high level alarm during performance of standby liquid transfer system surveillance on August 20, 2020
- (3) Local power range monitor operability challenged following gain adjustments that could not be validated due to plant process computer communication issues on July 21 to 23, 2020
- (4) Review of compensatory measures associated with the unexpected seismic system non-functionality on August 24 to 26, 2020

71111.19 - Post-Maintenance Testing

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

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

- (1) Unit 2 air compressor electrical breaker, H2210, functionality following refurbishment on July 20, 2020
- (2) HPCS system following the replacement of the emergency service water heat exchanger relief valve on August 8, 2020
- (3) Division 3 diesel generator system performance following potentiometer 'R3' replacement on August 8, 2020
- (4) Axial power range monitor 'D' channel calibration of 1C51-K605D following relay replacement on August 10, 2020
- (5) Division 1 diesel generator system operability test following ventilation damper motor replacement on August 21, 2020
- (6) SVI-C41-T1026, "Standby Liquid Control Boron Concentration," following chemical addition to restore SLC system operability on August 27, 2020
- (7) Unit 2 air compressor test following the replacement of two Potter & Brumfield time delay relays on September 22, 2020

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (6 Samples)

- (1) Remote shutdown control panel reactor core isolation cooling system surveillance on July 21, 2020
- (2) SVI-R44-T2002, "Division 2 Diesel Generator Starting Air SCV and FCV Operability Test" on July 27, 2020
- (3) SVI-C41-T2001B, "Standby Liquid Control B Pump and Valve Operability Test" on July 31, 2020
- (4) 'A' RHR system operability test on September 20, 2020
- (5) SVI-C51-T0027-A, "APRM A Channel Functional for 1C51-K6005A" on September 22, 2020
- (6) 'B' recirculating water pump hydraulic unit 1 functionality test following filter replacement on September 24, 2020

Inservice Testing (IP Section 03.01) (2 Samples)

- (1) 'C' RHR system operability test on July 30, 2020

- (2) HPCS pump discharge pressure surveillance on August 2, 2020

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

- (1) Drywell floor drain sump surveillance on August 24, 2020

71114.06 - Drill Evaluation

Select Emergency Preparedness Drills and/or Training for Observation (IP Section 03.01) (1 Sample)

- (1) Inspectors observed and evaluated licensee performance during the emergency response organization integrated drill on August 12 to 13, 2020

RADIATION SAFETY

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) Fuel Handling Building Ventilation System

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

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

- (1) Maintenance Rebuild Room 599' Intermediate Building

71124.06 - Radioactive Gaseous and Liquid Effluent Treatment

Walkdowns and Observations (IP Section 03.01) (3 Samples)

The inspectors evaluated the following radioactive effluent systems during walkdowns:

- (1) Liquid Radwaste System – Auxiliary Building East 620' (including the Radiation Monitor) and the Radwaste Building 602' (including the Discharge Flow Control Valves)
- (2) Unit One Plant Vent (including associated Radiation Monitor and sampling lines located in the Intermediate Building 682')
- (3) Offgas Gaseous Effluent System (including the associated Radiation Monitor and sampling lines from the Turbine Building 620' to discharge header)

Sampling and Analysis (IP Section 03.02) (3 Samples)

- (1) Inspectors evaluated the compensatory sample program
- (2) Inspectors evaluated the sampling and sample analysis of the U1 Plant Vent
- (3) Inspectors evaluated the sampling and sample analysis of the Unit 2 Turbine Power Complex Sump

Dose Calculations (IP Section 03.03) (2 Samples)

The inspectors evaluated the following dose calculations:

- (1) January 2020 Liquid and Gaseous Effluent Release Data
- (2) February 2020 Liquid and Gaseous Effluent Release Data

Abnormal Discharges (IP Section 03.04) (1 Sample)

The inspectors evaluated the following abnormal discharges:

- (1) In-leakage into the Nuclear Closed Cooling (NCC) system in 2018-2019

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

MS08: Heat Removal Systems (IP Section 02.07) (1 Sample)

- (1) Unit 1 (July 1, 2019–June 30, 2020)

MS09: Residual Heat Removal Systems (IP Section 02.08) (1 Sample)

- (1) Unit 1 (July 1, 2019–June 30, 2020)

MS10: Cooling Water Support Systems (IP Section 02.09) (1 Sample)

- (1) Unit 1 (July 1, 2019–June 30, 2020)

PR01: Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual
Radiological Effluent Occurrences (RETS/ODCM) Radiological Effluent Occurrences Sample
(IP Section 02.16) (1 Sample)

- (1) Unit 1 (07/01/2019–06/30/2020)

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

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

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

- (1) The inspectors evaluated the licensee's independent spent fuel storage installation (ISFSI) cask loading from August 17 to August 21, 2020. Specifically, the inspector observed the following activities:
 - Radiological contamination survey of the annulus between the transfer cask (HI-TRAC) and the Multi-Purpose Canister (MPC) and removing the annulus seal on August 17

- Hydrostatic test of the lid-to-shell weld and the post-hydro visual and dye penetrant examinations of the lid-to-shell weld on August 18
- Vacuum drying and backfill evolutions on August 18 and 19
- Vent and drain port cover plate welding on August 19
- Transfer of the MPC from the HI-TRAC to the storage cask (HI-STORM) and transport of the HI-STORM from the fuel handling building on August 20

The inspector performed a walkdown of the ISFSI pad, including independent radiation surveys, and a walkdown of the ISFSI haul path on August 20.

The inspectors evaluated the following:

- Spent fuel selection for the 5 casks in the loading campaign
- Selected condition reports written since November 2018
- Selected 10 CFR 72.48 screenings performed since November 2018
- Update of the Perry 10 CFR 72.212 Evaluation Report to Revision 10

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 31, 2020, the inspectors presented the radiation protection baseline inspection results to Mr. F. Payne, Site Vice President, and other members of the licensee staff.
- On August 21, 2020, the inspectors presented the independent spent fuel storage installation cask loading inspection results to Mr. F. Payne, Site Vice President, and other members of the licensee staff.
- On October 22, 2020, the inspectors presented the integrated inspection results to Mr. F. Payne, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
60855.1	ALARA Plans	200316	Load Spent Fuel into HI-STORM's # 919/920/921/922/923	0	
	Calculations	FM-067	Assemblies and Decay Heat for First Spent Fuel Dry Storage Campaign	09/17/2010	
	Corrective Action Documents			Selected Condition Reports	11/01/2018 to 08/21/2020
		CR-2013-04223	MS-C-13-03-30: Spent Fuel Dry Storage FSAR Contains Conflicting Direction	03/22/2013	
		CR-2020-04224	Auxiliary Hook Reeving Questioned	05/13/2020	
		CR-2020-06009	Dry Cask Storage - MPC #496 Drain Tube Length Short	07/28/2020	
		CR-2020-06816	MPC #500 Drain Tube Came Into Contact with HI-TRAC	08/31/2020	
		FCR30781002-R1, FCR30781007, FCR30781009	Holtec Field Condition Reports	07/27/2020, 08/04/2020, 08/11/2020	
	Corrective Action Documents Resulting from Inspection	CR-2020-06507	2020 NRC ISFSI Inspection: PMI-0031, Fuel Handling Building Crane Preventative Maintenance Errors	08/18/2020	
	Engineering Changes	72.48 Evaluation No. 1298	ECO 5014-266R1	1	
		72.48 Evaluation No. 1353	SMDR-1021-2785	0	
		72.48 Screen No. 20-01017	Revision 10 to Perry 10 CFR 72.212 Evaluation Report	0	
		ECO 5014-266	Decrease the Local Temperature Limit Under Short-Term, Off-Normal, and Accident Conditions from 650F to 572F	1	
	Engineering Evaluations		Perry Nuclear Power Plant 10 CFR 72.212 Evaluations Report	10	
		SMDR 1021-2785	MPC-68 Fabrication	09/24/2018	
	Miscellaneous		Selected 10 CFR 72.48 Screenings	11/01/2018 to 08/03/2020	
			ASME Section IX Welder Performance Qualifications	05/11/2020,	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
				06/17/2020, 07/10/2020
			2020 SFDS Campaign Overall Dose Tracking	08/03/2020
			2019 ISFSI Pad 40 CFR 90 and 10 CFR 72.104 Compliance	08/20/2020
			Certifications for NDE Personnel	04/23/2020
			Qualification Records for Dry Cask Personnel	08/03/2020, 08/19/2020
			Fuel Bundle Sipping Records for the Perry 2020 Dry Cask Campaign	07/27/2020
			Cask Fuel Reports for MPC-0919-0496, MPC-0920-0497, MPC-0921-0498, MPC-0922-0499, and MPC-0923-0500	08/03/2020
			2018 Annual Environmental and Effluent Release Report for the Perry Nuclear Power Plant	03/2019
			2019 Annual Environmental and Effluent Release Report for the Perry Nuclear Power Plant	03/2020
		13-140	Change Notice 10 CFR 72.212 Report	08/01/2013
		DOC-1025-011	Documentation Package for HI-TRAC 125D for First Energy (Perry)	3
		RAD 16-02392	Regulatory Applicability Determination Procedure GMI-0213 Rev. 18	00
		Procedures	8 MC-GTAW	ASME Section IX Welding Procedure Specification
	8 MN-GTAW		ASME Section IX Welding Procedure Specification	7
	GMI-0210		Multi-Purpose Canister (MPC) Loading	16
	GMI-0212		Spent Fuel Dry Storage Ancillary Equipment Preparation, Inspection and Mobilization	3
	GMI-0213		Multi-Purpose Canister (MPC) Sealing	18, 23, 24
	GMI-0213, Attachment 2		MPC Helium Backfill Calculation, MPC #498	08/17/2020
	GMI-0215		Spent Fuel Dry Storage Response to Abnormal Conditions	9
		GMI-0220	Multi-Purpose Canister (MPC) Preparation for Loading	10
	GMI-0221	HI-STORM Movement	15	
	GMI-0222	Multi-Purpose Canister (MPC) Transfer	18	
	HPI-D0005	RP Monitoring Requirements for Dry Fuel Storage Loading	13	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71111.04			Operations		
		IOI-19	Spent Fuel Dry Cask Storage	8	
		NOP-LP-2601	Procedure/Work Instruction Use and Adherence	06	
			NOP-NF-3002, Attachment 7	Verification SNM Physical Inventory Summary, MPC-0498-0921	08/15/2020
	Radiation Surveys	PY-M-20200808-3	Can #22 / 8.177 kW MPC/HI-TRAC Contamination Survey Hold Point 5.1.1	08/08/2020	
		PY-M-20200811-11	Can #22 / 8.177 kW- MPC/HI-TRAC on Decon Pad Hold Point 5.5.2	08/10/2020	
		PY-M-20200813-1	Can #22 / 8.177 kW-Post Annulus Drain/Pre-Stack Up Survey Hold Point 5.7.2	08/13/2020	
		PY-M-20200813-10	Can #23 / 7.408 kW MPC/HI-TRAC Contamination Survey Hold Point 5.1.1	08/13/2020	
		PY-M-20200813-7	Can #22 / 8.177 kW-Top of HI-STORM/Contamination Hold Point 5.7.11	08/13/2020	
		PY-M-20200813-8	Can #22 / 8.177 kW-HI-STORM Survey Hold Point 5.7.13 / ISFSI Survey Step 4.4.1	08/13/2020	
	Radiation Work Permits (RWP)	200315 through 200321	Dry Cask Storage Project	0	
	Self-Assessments	ATL-2018-1297-ATA-18	2020 Perry Dry Cask Loading Campaign Readiness Review	07/27/2020	
		MS-C-19-03-30	Fleet Oversight Audit Report: Independent Spent Fuel Storage Installation (ISFSI)	03/28/2019	
		SA-BN-2020-1861	2020 Dry Cask Storage Pre-Campaign 4 Self-Assessment	05/29/2020	
	Work Orders	200692837	Prefab Hi-STORMs/4th Campaign	11/01/2019	
		200711367	Periodic Crane Maintenance on FHB Crane	05/21/2020	
		200752617	Special Lifting Device Testing PMI-0120	05/18/2020	
		200752622	Inspect Dry Cask Storage Concrete Areas	06/20/2019	
		200752623	Inspect Dry Cask Storage Concrete Areas	07/15/2020	
		200752641	PMI-0121 Int/Ext Visual Inspection	07/23/2020	
		200827374	Perform Inspection SFDS ANSI 14.6 Lift Devices	07/22/2020	
	Drawings	302-0352-00000	Standby Diesel Generator Fuel Oil System	LL	
		302-0353-00000	Standby Diesel Generator Lube Oil	T	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures	302-0354-00000	Standby Diesel Generator Jacket Water	V
		SOI-E12	Residual Heat Removal Systems (E12) Rev. 27	02/25/2020
		SVI-E12-T1182C	RHR C LPCI Valve Lineup Verification and System Venting Rev. 19	02/25/2020
		VLI-E12	Residual Heat Removal System (E12) Rev. 15	03/26/2019
		VLI-R45	Division 1 and 2 Diesel Generator Fuel Oil System (Unit 1)	5
		VLI-R46	Division 1 and 2 Diesel Generator Jacket Water Systems (Unit 1)	4
	Work Orders	VLI-R47	Division 1 and 2 Diesel Generator Lube Oil	7
71111.11Q	Miscellaneous	200752000	RHR PUMP 'C'	07/30/2020
		Evolution Specific Reactivity Plan	Perry Nuclear Power Plant March 2020 Sequence Exchange	0
	Simulator Guide	OTLC-3058202009_PY-SGC1	0	
71111.12	Corrective Action Documents	FTI-B-0002	Special Maneuver Control Rod Movement Sheet	09/03/2020
		CR 2020-05132	Greater Than 25 Percent Drop in Battery Voltage When Starting the Diesel Fire Pump	06/17/2020
		CR 2020-06129	Low Specific Gravity on the Diesel Fire Pump Battery PY-0P5455001B Cell Number Two	08/03/2020
		CR 2020-06136	Unplanned Fire Impairment - Diesel Fire Pump Battery Out of Specification	08/03/2020
71111.13	Corrective Action Documents	CR 2020-06939	Motor Fire Pump Excessive Vibrations	09/04/2020
		CR 2016-06758	HPCS Diesel Overspeed Trip Occurred Slightly Low	05/24/2016
		CR 2020-05711	Improper Functioning of TIP Machine	07/15/2020
		CR 2020-06113	Div 3 Start Signal Computer Point did not Show Change in State on TRA Archive Plot	08/02/2020
		CR 2020-06561	Standby Liquid Control Hi/Lo Alarm During Standby Liquid Control Transfer Pump and Valve Test	08/20/2020
		CR 2020-07279	F/D 'A' Combined Vent and Slowdown Valve G36F0013a Failed Reposition During RWCU Precoat	09/18/2020
	CR 2020-07319	RWCU F/D 'A' Combined Vent and Blowdown Valve did not Make Up Open Limit – Stopped Backwash	09/20/2020	
Miscellaneous	CR 2020-07329	RWCU F/D 'A' Combined Vent and Blowdown Valve Sticking and Loose Components	09/20/2020	
	GEN-MNT-004-	Material Accountability Log	09/19/2020	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		08		
		GMI-0021	Fastener Torque Data Sheet	08/10/2020
		IP-ENG-001 Form 4	Design Change Package 19-0095-001	02/10/2020
		NOBP-SS-1201-03	CDA Impact Analysis	06/11/2020
		NOP-OP-1001-12	Zero Energy Checklist (FENOC)	09/19/2020
		NOP-SS-1001-02	Software Change Description	06/09/2020
		NOP-SS-1001-05	Software Test	06/09/2020
		NOP-WM-1001-04	Work In Progress Log (WO200825503)	06/26/2020
		NOP-WM-1001-04	Work In Progress Log	06/01/2020
		NOP-WM-1001-04	Work In Progress Log	08/08/2020
		NOP-WM-1001-04	Work In progress Log	09/18/2020
		NOP-WM-4300-04	Configuration Control Log	08/08/2020
		NOP-WM-9001-03	FENOC Maintenance Closure Sheet	09/20/2020
	Procedures	GEI-0007-A	Instructions for Cable and Wire Terminations	06/19/2020
		NOBP-SS-1201-03	CDA Impact Analysis	06/08/2020
		NOP-OP-1007	Risk Management	32
		NOP-WM-WM-4300-05	Post Maintenance Checklist	07/21/2020
		SOI-E22-B	Division 3 Diesel Generator	35
	Work Orders	200651581	Process Computer	06/01/2020
		200684962	Adjust Overspeed Trip Setpoint	08/08/2020
		200825503	Firewall	06/25/2020
		200832116	Determine Cause of Valve Indication for 1G36F0013A Being Lost	09/18/2020
		200832140	Work Associated with 1G36F0013A	09/20/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.15	Corrective Action Documents	CR 2020-05484	ESW C Discharge Check Valve Did Not Pass Exercise Open Flow Required by SVI-P45-T2003	07/06/2020
		CR 2020-05844	Plant Computer Data Acquisition System Upgrade Disables TRA Function	07/21/2020
		CR 2020-05852	SVI-C51-T5351 LPRM Calibrations Unable to be Completed Due to No Communication Between Traversing In-core Probe Machines and Plant Computer	07/21/2020
		CR 2020-06561	Standby Liquid Control Hi/Lo Level Alarm During SLC Transfer Pump and Valve	08/20/2020
		CR 2020-06618	Unexpected Seismic Alarm Received	08/23/2020
	Procedures	PYBP-POS-0030	Transient Strategies and Mitigating Actions	6
		SOI-C41	Standby Liquid Control System	12/20/2018
		SVI-C41-T2001-B	Standby Liquid Control B Pump and Valve Operability Test	06/27/2019
		SVI-P45-T2003	HPCS ESW Pump and Valve Operability Test	07/06/2020
		SVI-P45-T2003	HPCS ESW Pump and Valve Operability Test	07/02/2019
	Work Orders	200738424	SVI-E12-T2003 RHR C Pump and Valve Operability Test	07/29/2020
		200750879	SVI-C41-T2001B Standby Liquid Control B Pump and Valve Operability Test	07/31/2020
	71111.19	Calculations	ATL-2020-0553-ATA-12	DIV3 ESW Flow Change
Corrective Action Documents		CR 2020-06249	Failed PMT for HPCS Diesel Heat Exchanger ESW Relief	08/07/2020
		CR 2020-06264	Division 3 DG Ran Unloaded for Greater Than 30 Minutes	08/08/2020
		CR 2020-06279	Evaluate the Failure Analysis Report from Target Rock for the 5 Failed Relief Valves (CR 2020 06279) for Further Actions (if needed) at Perry to Prevent Additional Failures	09/08/2020
		CR 2020-06545	Complete a Past Operability Review as Requested by SARO and Document or Attach the Results (AFTER)	08/26/2020
		CR 2020-07380	APRM 'A' Power Adjustment Potentiometer is Giving Intermittent Voltage	09/22/2020
Corrective Action Documents Resulting from Inspection		ATL-2020-0553-ATA-17	Plant Narrative Log Typo	07/20/2020
Miscellaneous		IMI-E3-20	Generic Relay Test Data Sheet	09/05/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		Measuring and Test Equipment Traveler	Measuring and Test Equipment Traveler	08/08/2020
		NOP-WM-1001-04	Work In Progress Log	08/08/2020
		NOP-WM-4300-05	Post Maintenance Checklist	09/22/2020
		NOP-WM-4300-05	Post Maintenance Checklist	08/04/2020
	Operability Evaluations	ATL-2020-0553-ATA-13	How Does Check Valve Operability Impact DIV3 ESW Operability	07/08/2020
	Procedures	GEI-0135 Rev. 34	ABB Power Circuit Breakers 5KV Types 5HK250 and 5HK350 Maintenance	07/19/2020
		GMI-0008 Rev. 23	Pressure Relief Device Bench Testing	08/08/2020
		NOP-WM-1001-04	Work In Progress Log	09/05/2020
		NOP-WM-2003-01	Test Cover Sheet	08/21/2020
		NOP-WM-4300-05	Post Maintenance Checklist	07/19/2020
		PTI-M43-P0005	Diesel Generator Building Ventilation System Damper Stroking – Division 1	12/05/2019
		SOI-P51/52	Service and Instrumentation Air System - Section 7.1	07/20/2020
		SVI-C51-T0027-A	APRM A Channel Functional for 1C51-K6005A	05/03/2018
		SVI-C51-T0027-E	APRM E Channel Functional for 1C51-K6005E	05/03/2018
		Work Orders	200559679	Remove/Replace Relief Valve
	2005674309		Service Air Compressor, 2P51-C001 Breaker Refurbishment	05/04/2020
	200738804		APRM D Channel Calibration for 1C51-K605D	06/11/2020
	200759507		Div1 DG RM Supp Fan 1A Recirc Air Damper	08/18/2020
	200773708		DG3 Replace Potentiometer R3 – VOLT Reg. Range	08/08/2020
	200821012		Replace Potter & Brumfield MDR Relay 1C71A-KO12A and 1C7 1A-KO12E	09/22/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.22	Corrective Action Documents	CR 2006-00254	CR for Trending: RTV or Other Sealant is Not Acceptable for Use in EHC System	01/08/2016
		CR 2020-02421	Potential Unacceptable Precondition of SVI-R44-T2001 in Relation to DIV1 Diesel Generator Run	02/19/2016
		CR 2020-07380	APRM 'A' Power Adjustment Potentiometer is Giving Intermittent Voltage	09/22/2020
	Miscellaneous	NOP-OOP-1001-12	Zero Energy Checklist (FENOC)	09/22/2020
		NOP-WM-1001-04	Work In Progress Log	09/16/2020
		NOP-WM-4300-05	Post Maintenance Checklist	09/24/2020
	Procedures	ISI-E22-T1100-2	High Pressure Core Spray (E22) Functional Pressure Test – Class 2	6
		PMI-0116	Fullers Earth Filter Replacement Instructions	09/22/2020
		PTI-GEN-P0012	Total Water Leakage Rate of Primary Coolant from Systems Outside Containment	10/03/2019
		SOI-E12	RHR 'A' Pump and Valve Operability Test	05/25/2020
		SOI-E22A	High Pressure Core Spray System	40
		SOI-P42	Emergency Closed Cooling System	24
		SVI-C51-T0027-A	APRM A Channel Functional for 1C51-K6005A	13
		SVI-C61-T1200	Remote Shutdown Control Test RCIC and RHR	6
		SVI-E31-T0375	Drywell Floor Drain Sump Flow Monitoring System Channel Functional for 1E31-K606	10
		TAI-0506	Preparations of Inservice Inspections Instructions	3
		TAI-2000-2	Vibration Monitoring	5
		VLI-R44	Division 1 and 2 Diesel Generator Starting Air System	6
	Work Orders	200738424	SVI-E12-T2003 RHR 'C' Pump & Valve Operability Test	07/30/2020
		200738517	SVI-E22-T1200 1 (92D) HPCS Pump Discharge Pressure – High (Bypass) Channel Functional for 1E22-N651	02/08/2020
20075200		RHR C Pump	07/30/2020	
200752935		Replace Fullers Earth Filter/B33 HPU 'B' SL-1	09/24/2020	
200754875		Drywell Floor Drain Sump Flow Monitoring System Channel Functional for 1E31-K606	08/24/2020	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		200761516	SVI-C61-T1200 RSD Ctrl Test – RCIC/ RHR	07/21/2020
		200761928	ISI-E22-T1100-2 High Pressure Core Spray Pressure Test – Class 2	02/08/2020
		200792554	RHR 'A' Pump and Valve Operability Test	08/18/2020
71114.06	Miscellaneous	Scenario Guide	Perry Emergency Response Organization Drill Scenario Guide	1
71124.06	Corrective Action Documents	2020-01864	The 20202 Reactor Water to NCC Leakage Methodology	03/06/2020
		2020-02048	Detectable Tritium Above 2000 pCi/l Detected in Manhole 23	03/10/2020
		2020-02224	Tritium Detected in Aux. Boiler Deaerator Drain	03/14/2020
	Corrective Action Documents Resulting from Inspection	2020-05865	NRC ID: ODCM Procedure Correction	07/21/2020
	Miscellaneous		Effluent Monitor Availability Data July 1, 2019 through June 30, 2020	Various
			2018 Annual Environmental and Effluent Release Report	04/29/2019
			2019 Annual Environmental and Effluent Release Report	04/17/2020
		19-016	Liquid Radwaste Release Permit	03/21/2019
		19-092	Liquid Radwaste Release Permit	12/14/2019
		19-093	Liquid Radwaste Release Permit	12/15/2019
		Procedures		Offsite Dose Calculation Manual
			Offsite Dose Calculation Manual	23
	CHI-0005A		Miscellaneous Gaseous Effluent Sampling	1
	CHI-0007		Midas	21
	CHI-0022A		Composites	0
	REC-0104		Chemistry Specifications	44
	Self-Assessments	SA-BN-2020-1868	2020 Radioactive Gaseous and Liquid Effluents	05/13/2020
71151	Calculations		Radiological Effluent Dose Summary Information July 2019 through June 2020	Various
	Miscellaneous	NOBP-LP-4012-19	Mitigating Systems Performance Index (MSPI) Unavailability Index (UAI) and Unreliability Index (URI) for Emergency Service Water (ESW)	07/01/2019 - 06/30/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		PI Summary Report	Mitigating Systems Performance Indicator Heat Removal System	07/01/2019 - 06/30/2020
		PI Summary Report	Mitigating Systems Performance Indicator Residual Heat Removal System	07/01/2019 - 06/30/2020
		PI Summary Report	Mitigating Systems Performance Indicator Cooling Water Systems	07/01/2019 - 06/30/2020