



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

February 5, 2020

Mr. Robert Craven  
Site Director  
NextEra Energy Point Beach, LLC  
6610 Nuclear Road  
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT – INTEGRATED INSPECTION REPORT  
05000266/2019004 AND 05000301/2019004

Dear Mr. Craven:

On December 31, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Point Beach Nuclear Plant and discussed the results of this inspection with Mr. B. Woyak, Site Safety Assurance and Learning Director, and other members of your staff. The results of this inspection are documented in the enclosed report.

One finding of very low safety significance (Green) is documented in this report. This finding involved a violation of NRC requirements. We are treating this violation as a non-cited violation (NCV) consistent with Section 2.3.2 of the Enforcement Policy.

If you contest the violation or the significance or severity of the violation documented in this inspection report, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region III; the Director, Office of Enforcement; and the NRC Resident Inspector at Point Beach Nuclear Plant.

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

Sincerely,

***/RA by Michael Kunowski Acting for/***

Richard A. Skokowski, Chief  
Branch 4  
Division of Reactor Projects

Docket Nos. 05000266 and 05000301  
License Nos. DPR-24 and DPR-27

Enclosure:  
As stated

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Letter to Robert Craven from Richard A. Skokowski dated February 5, 2020.

SUBJECT: POINT BEACH NUCLEAR PLANT – INTEGRATED INSPECTION REPORT  
05000266/2019004 AND 05000301/2019004

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

Docket Numbers: 05000266 and 05000301

License Numbers: DPR-24 and DPR-27

Report Numbers: 05000266/2019004 and 05000301/2019004

Enterprise Identifier: I-2019-004-0059

Licensee: NextEra Energy Point Beach, LLC

Facility: Point Beach Nuclear Plant

Location: Two Rivers, WI

Inspection Dates: September 30, 2019 to December 31, 2019

Inspectors: K. Barclay, Resident Inspector  
M. Garza, Emergency Preparedness Inspector  
T. Hartman, Senior Resident Inspector  
G. O'Dwyer, Reactor Engineer  
G. Roach, Senior Operations Engineer  
L. Rodriguez, Reactor Inspector  
J. Seymour, Reactor Ops Engineer

Approved By: Richard A. Skokowski, Chief  
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 Point Beach Nuclear Plant, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### List of Findings and Violations

Main Feedwater Isolation Valve Component Materials not Suitable for Environmental Conditions			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000266,05000301/2019004-01 Open/Closed	None (NPP)	71111.15
The inspectors identified a Green finding and associated Non-cited Violation (NCV) of Title 10 CFR Part 50, Appendix B, Criterion III, "Design Control," when the licensee failed to assure the main feedwater isolation valve actuators and supporting subsystem components installed in the plant were suitable for the environment under which they were required to operate.			

### Additional Tracking Items

None.

## PLANT STATUS

Unit 1 began the inspection period at rated thermal power. On October 23, 2019, power was reduced to below 60 percent to support turbine stop and governor valve testing. The Unit returned to rated thermal power on October 24, 2019, and remained at or near rated thermal power for the remainder of the inspection period.

Unit 2 operated at or near rated thermal power for the entire 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 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.

## REACTOR SAFETY

### 71111.04Q - 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) G-02 emergency diesel generator on November 16, 2019
- (2) Unit 1 containment spray train A on November 21, 2019
- (3) Unit 2 motor-driven auxiliary feedwater pump on December 16, 2019

### 71111.04S - Equipment Alignment

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

- (1) The inspectors evaluated system configurations during a complete walkdown of the Unit 2 safety injection system on November 26, 2019.

### 71111.05A - Fire Protection (Annual)

#### Annual Inspection (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated fire brigade performance on December 2, 7, and 17, 2019.

#### 71111.05Q - Fire Protection

##### Quarterly Inspection (IP Section 03.01) (2 Samples)

The inspectors evaluated fire protection program implementation in the following selected areas:

- (1) Fire Zones 308 and 309 on November 1, 2019
- (2) Fire Zones 304N, 304S, and 305 on December 15, 2019

#### 71111.06 - Flood Protection Measures

##### Inspection Activities - Internal Flooding (IP Section 02.02a.) (2 Samples)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) emergency diesel generator building
- (2) circulating water pump house

#### 71111.07T - Heat Sink Performance

##### Triennial Review (IP Section 02.02) (2 Samples)

The inspectors evaluated heat exchanger/sink performance for the following:

- (1) Emergency Diesel Generator (G-02) Heat Exchanger (HX-055B), cooled by the service water system, Section 02.02.b
- (2) Ultimate Heat Sink, Sections 02.02.d.5 and 02.02.d.7

#### 71111.11A - Licensed Operator Requalification Program and Licensed Operator Performance

##### Requalification Examination Results (IP Section 03.03) (1 Sample)

- (1) The inspectors reviewed and evaluated the licensed operator examination failure rates for the requalification annual operating exam administered from September 23, 2019 to October 16, 2019.

#### 71111.11B - Licensed Operator Requalification Program and Licensed Operator Performance

##### Licensed Operator Requalification Program (IP Section 03.04) (1 Sample)

- (1) Biennial Requalification Written Examinations

The inspectors evaluated the quality of the licensed operator biennial requalification written examination administered on August 30, 2018.

##### Annual Requalification Operating Tests

The inspectors evaluated the adequacy of the facility licensee's annual requalification operating test.

#### Administration of an Annual Requalification Operating Test

The inspectors evaluated the effectiveness of the facility licensee in administering requalification operating tests required by 10 CFR 55.59(a)(2) and that the facility licensee is effectively evaluating their licensed operators for mastery of training objectives.

#### Requalification Examination Security

The inspectors evaluated the ability of the facility licensee to safeguard examination material, such that the examination is not compromised.

#### Remedial Training and Re-examinations

The inspectors evaluated the effectiveness of remedial training conducted by the licensee, and reviewed the adequacy of re-examinations for licensed operators who did not pass a required requalification examination.

#### Operator License Conditions

The inspectors evaluated the licensee's program for ensuring that licensed operators meet the conditions of their licenses.

#### Control Room Simulator

The inspectors evaluated the adequacy of the facility licensee's control room simulator in modeling the actual plant, and for meeting the requirements contained in 10 CFR 55.46.

#### Problem Identification and Resolution

The inspectors evaluated the licensee's ability to identify and resolve problems associated with licensed operator performance.

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

#### Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (2 Samples)

- (1) The inspectors observed and evaluated licensed operator performance in the control room during a Unit 1 downpower to support main stop valve testing on October 23, 2019.
- (2) The inspectors observed and evaluated licensed operator performance in the control room during Unit 1 Rod operability testing on November 5, 2019.

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

- (1) The inspectors observed and evaluated a licensed operator simulator scenario on November 18, 2019.



## 71111.12 - Maintenance Effectiveness

### Routine Maintenance Effectiveness Inspection (IP Section 02.01) (3 Samples)

The inspectors evaluated the effectiveness of routine maintenance activities associated with the following equipment and/or safety significant functions:

- (1) Unit 2 auxiliary feed water valve 2AF-4000 failed to close on November 7, 2019
- (2) Bus H-02 13.8 kV breaker failed to close on March 21, 2019
- (3) G-05 gas turbine generator tripped on September 12, 2019

### Quality Control (IP Section 02.02) (1 Sample)

The inspectors evaluated maintenance and quality control activities associated with the following equipment performance activities:

- (1) Maintenance activities related to the failure of Unit 2 feed water isolation system in January of 2019, and quality control issues related to the commercial grade dedication of reactor protection replacement relays, which failed in April and May of 2019.

## 71111.13 - Maintenance Risk Assessments and Emergent Work Control

### Risk Assessment and Management Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated the risk assessments for the following planned and emergent work activities:

- (1) elevated risk due to 1P-29 turbine-driven auxiliary feedwater pump maintenance and testing on October 24, 2019
- (2) elevated risk due to emergent maintenance on G-02 emergency diesel generator on November 15, 2019
- (3) elevated risk due to 1P-15B safety injection pump being out-of-service during valve testing on December 26, 2019

## 71111.15 - Operability Determinations and Functionality Assessments

### Operability Determination or Functionality Assessment (IP Section 02.02) (5 Samples)

The inspectors evaluated the following operability determinations and functionality assessments:

- (1) evaluation of the minimum operating temperature of the main feedwater isolation valves
- (2) increased reactor coolant system leakage through a letdown control valve
- (3) slowly lowering auxiliary feedwater accumulator pressure
- (4) evaluation of the flooding implications related to identified drain valve leakage into the residual heat removal pump cubicles
- (5) degraded performance on the #3 crossover steam dump valve

#### 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) white and yellow bus inverter and static switch replacement

#### 71111.19 - Post-Maintenance Testing

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

The inspectors evaluated the following post maintenance tests:

- (1) 0-PT-FP-003, Electric Motor-Driven Fire Pump Functional Test, after maintenance on the P-35A motor-driven fire pump on October 15, 2019
- (2) testing after auxiliary feed water relief valve replacement on October 24, 2019
- (3) testing after maintenance on 2AF-4000 turbine-driven auxiliary feedwater pump discharge valve on November 7, 2019
- (4) testing after SW-4479 actuator diagnostic maintenance on November 5, 2019
- (5) testing after G-02 emergency diesel generator strainer housing maintenance on November 15, 2019
- (6) testing after DY-0D inverter replacement on October 31, 2019, and November 1, 2019

#### 71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

##### Surveillance Tests (other) (IP Section 03.01) (2 Samples)

- (1) Unit 1 turbine-driven auxiliary feedwater pump cold start testing on October 23, 2019
- (2) Unit 1 train A containment spray pump and valve testing on November 20, 2019

#### 71114.04 - Emergency Action Level and Emergency Plan Changes

##### Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors evaluated the following submitted Emergency Action Level and Emergency Plan changes.
  - 2018-PB-044, Emergency Plan 7.0, 11/16/18
  - 2018-PB-046, Emergency Plan Appendix L, 11/16/18
  - 2019-PB-001, Emergency Plan Appendix A, 02/02/19
  - 2019-PB-002, Emergency Plan 5.0, 02/05/19
  - 2019-PB-003, Emergency Plan 2.0, 02/05/19
  - 2019-PB-004, Emergency Plan 6.0, 02/05/19
  - 2019-PB-010, Emergency Plan Implementing Procedure 1.2-1, 05/20/19
  - 2019-PB-011, Emergency Plan Implementing Procedure 1.2, 05/20/19
  - 2019-PB-012, Emergency Plan Appendix B, 05/20/19

- 2019-PB-013, On-shift Staffing, 06/03/19

This evaluation does not constitute NRC approval.

## OTHER ACTIVITIES – BASELINE

### 71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

#### MS09: Residual Heat Removal Systems (IP Section 02.08) (2 Samples)

- (1) Unit 1 October 1, 2018 - September 30, 2019
- (2) Unit 2 October 1, 2018 - September 30, 2019

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

- (1) Unit 1 October 1, 2018 - September 30, 2019
- (2) Unit 2 October 1, 2018 - September 30, 2019

### 71152 - Problem Identification and Resolution

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

- (1) The inspectors reviewed the licensee's corrective action program, trend reports, major equipment problem lists, system health reports, self-assessments, and additional documents, to identify trends that might indicate the existence of a more significant safety issue.

## INSPECTION RESULTS

Main Feedwater Isolation Valve Component Materials not Suitable for Environmental Conditions			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000266,05000301/2019004-01 Open/Closed	None (NPP)	71111.15
The inspectors identified a Green finding and associated Non-cited Violation (NCV) of Title 10 CFR Part 50, Appendix B, Criterion III, "Design Control," when the licensee failed to assure the main feedwater isolation valve actuators and supporting subsystem components installed in the plant were suitable for the environment under which they were required to operate.			
<u>Description:</u>			
On January 30, 2019, the licensee received a Main Feedwater Isolation Valve (MFIV) trouble annunciator. The licensee dispatched an operator to investigate and found the Unit 1 main feedwater isolation valve (MFIV) actuator extend 3-way valve, 1CS-256B, blowing air to the atmosphere. The operator also reported that the pressure at the MFIV accumulator,			

1CS-256B, was reading 200 psig and lowering. The licensee declared Unit 1 Train B MFIV, 1CS-3125, inoperable and shut the associated air valve to stop the air leak. This allowed the accumulator to restore pressure above the minimum Technical Specification requirement of 227.5 psig. The MFIVs are safety-related and required to isolate the feedwater system in the event of a main steam line break inside containment.

The licensee determined that the cause of the valve leakage was "extreme" cold temperatures. At the time, the local area temperature was 3 degrees F. The licensee determined that the o-ring seals and valve seats (elastomers) were made from a rubber compound that lost its flexibility at that low temperature. In addition, the elastomers would shrink at a much faster rate than the surrounding metal challenging their ability to seal properly. The licensee added portable heaters to the area, which raised the local area temperature. The licensee unisolated the air to the valve, verified that valve was no longer leaking, and returned the components and system to operable within the technical specifications allowed outage time of 72 hours.

A follow-up by the resident inspectors questioned why the valve leaked at a temperature of 3 degrees F when they were qualified for -20 degrees F. The licensee determined that the 'Viton' elastomers included in the components was not effective at sealing in significantly cold temperatures. The licensee also found the valves they installed were only manufactured for a minimum temperature +20 degrees F, when the design called for components to be qualified down to -20 degrees F. This was due to some communication and verification errors between the licensee and vendor supplying the components. The extent of condition identified 24 valves that could directly affect the performance of the MFIVs that were installed without meeting design specifications. The licensee also identified more than 96 components that utilize an elastomer that could be adversely affected by the cold weather. The MFIVs and their associated components were installed in 2011 under Engineering Change (EC) 258382 for Unit 1 and EC 258480 for Unit 2.

Corrective Actions: The licensee added portable heaters to the area to raise local area temperatures and revised their cold weather procedure to ensure the area remains above 35 degrees F throughout the cold season. The licensee is planning on adding heat tracing to the components of concern as well as replacing the components with an appropriate material that will meet the original design criteria.

Corrective Action References: AR 2328869

Performance Assessment:

Performance Deficiency: The inspectors determined that failure to ensure systems and components were capable to perform their design function in the associated environmental conditions was a performance deficiency. Specifically, the licensee installed safety-related components with elastomers in an environment that could fall below the minimum temperature for its application, which caused the valve to leak and render the system inoperable.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Equipment Performance attribute of the Mitigating Systems cornerstone and adversely affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, the MFIV actuator extend 3-way valve, 1CS-256B, began leaking which depressurized the safety-related accumulator below the minimum

<p>operable pressure of 227.5 psig. This rendered the associated MFIV inoperable because it can no longer be assured to close during a main steam line break event.</p> <p>Significance: The inspectors assessed the significance of the finding using Appendix A, "The Significance Determination Process (SDP) for Findings At-Power." Specifically, the inspectors determined that this finding is of very low safety significance (Green) because they answered "No" to all questions in Exhibit 2.</p> <p>Cross-Cutting Aspect: Not Present Performance. No cross-cutting aspect was assigned to this finding because the inspectors determined the finding did not reflect present licensee performance.</p>
<p><u>Enforcement:</u></p> <p>Violation: Title 10 CFR Part 50, Appendix B, Criterion III, "Design Control," requires, in part, that measures be established for the selection and review for suitability of application of materials, parts, equipment, and processes that are essential to the safety-related functions of the structures, systems and components.</p> <p>Contrary to the above, since June 7, 2011 (for Unit 2), and December 9, 2011 (for Unit 1), the licensee failed to review for suitability of application of materials essential to the safety-related functions of the MFIVs. Specifically, the licensee utilized a type of elastomers that were not appropriate for the environmental conditions (extreme cold) they could be subject to.</p> <p>Enforcement Action: This violation is being treated as an non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.</p>

Observation: Semiannual Trend Review	71152
<p>During the inspection quarter, the inspectors reviewed a significant number of licensee corrective action program documents to assess the following performance attributes:</p> <ul style="list-style-type: none"> <li>• complete, accurate, and timely documentation of the identified problem in the corrective action program;</li> <li>• evaluation and timely disposition of operability and reportability issues;</li> <li>• consideration of extent of condition and cause, generic implications, common cause, and previous occurrences;</li> <li>• completion of corrective actions in a timely manner commensurate with the safety significance of the issue; and</li> <li>• identification of negative trends associated with equipment performance that can potentially impact nuclear safety.</li> </ul> <p>The inspectors reviewed the site's response to several deficiencies associated with control rods due to the increasing number and repetitive nature of the deficiencies. The inspectors identified that in 2019, the rod control and position indication systems experienced several occurrences of either blowing fuses during rod movement or experiencing erratic indication while stationary.</p> <p>The inspectors noted that the failure of rod control fuses in August 2019 was identical to a failure that occurred in December 2018. In December 2018, the failure caused Unit 2 Rod F-6 to insert 20 steps into the core. Troubleshooting efforts were not able to identify any direct causes, so the licensee implemented a modification to change the fuse rating from 10 Amps to 15 Amps to account for small power spiking. In August 2019, a similar failure caused Rod F-6 to insert completely into the core. Again, troubleshooting efforts were unable</p>	

to identify the cause, so the licensee implemented another modification to change the fuse rating from 15 Amps to 25 Amps. Additionally, the licensee changed the frequency of rod testing to minimize the number of times the rods needed to be moved, therefore limiting the chances for the fuses to fail. The licensee also recognized this same rod experienced a similar failure in December 2010 with no cause identified. The licensee is planning additional troubleshooting and repairs during the upcoming outage. The inspectors independently reviewed the licensee's efforts and verified the rods remain capable of performing their safety-related function.

The inspectors also noted an increasing frequency of erratic control rod indications. In November 2019, Unit 2 Rod J-4 began intermittently indicating positions other than its actual 228 steps. Troubleshooting did not identify any direct causes and the licensee was unable to correct the erratic indications. The licensee declared J-4 rod position indication inoperable and continues to perform the required TS actions. In December 2019, Unit 1 Rod H-8 began experiencing the same issue. Troubleshooting did not identify a direct cause and the licensee was unable to correct the erratic indication. The licensee declared H-8 rod position indication inoperable and continues to perform the required TS actions. The licensee is planning additional troubleshooting and repairs during the upcoming outages.

The inspectors did not identify any findings or violations of more than minor significance.

## **EXIT MEETINGS AND DEBRIEFS**

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

- On December 31, 2019, the inspectors presented the integrated inspection results to Mr. B. Woyak, Site Safety Assurance and Learning Director, and other members of the licensee staff.
- On October 4, 2019, the inspectors presented the Heat Sink Performance inspection results to Mr. R. Craven, Site Director, and other members of the licensee staff.
- On October 11, 2019, the inspectors presented the Biennial inspection of the licensed operator requalification program inspection results to Darren Peterson, Site Training Manager, and other members of the licensee staff.
- On November 14, 2019, the inspectors presented the Biennial inspection of the operator license conditions portion of the licensed operator requalification program inspection results to Mr. A. Fahrenkrug, Operations Training Supervisor, and other members of the licensee staff.
- On December 13, 2019, the inspectors presented the Emergency Preparedness Inspection Exit Meeting inspection results to Mr. D. Smith, Emergency Preparedness Manager, and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04Q	Corrective Action Documents	AR 2327911	G-501, Aux Diesel Generator, Start	09/13/2019
		AR 2329945	Procedure Step Incorrectly Marked N/A	10/01/2019
		AR 2330266	Human Performance Error During DY-0D Wire Bypass Work	10/03/2019
		AR 2337674	Red Lock Applied To 1AF-233B (High Side ISO To 1FIT4074A)	12/7/2019
	Drawings	110E017 Sh. 3	P&ID Safety Injection System, Unit 1	48
		M-207 Sheet 1A	P&ID Service Water	42
		M-209 Sheet 12	PI&D EM. Diesel Air Starting Sys.	23
		M-217 Sheet 1	PI&D Auxiliary Feedwater System	104
		M-219 Sheet 1	P&ID Fuel Oil System	51
		M-219 Sheet 2	P&ID Fuel Oil System Diesel Generator Building	16
		M-2217	P&ID Auxiliary Feedwater System	7
	Miscellaneous	CL 7A	Safety Injection System Checklist Mode 1, 2, 3 Unit 1	38
	Procedures	1-SOP-Y-001	Shifting 120V RPS/Safeguards Instrument Buses	8
	Work Orders	40574458	2DY-04 EC 290150 Yellow Bus Inv & Static Rep.	10/04/2019
71111.04S	Corrective Action Documents Resulting from Inspection	AR 2337610	Blue Boric Acid Identified On 2SI-897B	12/06/2019
	Drawings	110E035 Sheet 1	P&ID Safety Injection System Unit 2	56
		110E035 Sheet 2	P&ID Safety Injection System Unit 2	60
	Procedures	TLB 17	Tank Level Book Safety Injection Accumulators 1(2)T-34 A/B	9
71111.05A	Fire Plans	PFP-2-TB 8	Pre-Fire Plan Unit 2 Turbine Building Elev 8 FT	1
	Miscellaneous		Fire Drill Package	12/06/2019
			Fire Drill Package	12/02/2019
	Procedures	AOP-40	Response To Fire	5
		NP 2.4.1	Fire Brigade Program	2
		NP 4.2.32	Respiratory Protection Program	19
		PC 75 Part 1	Monthly and Turnaround Maintenance For The Scott 4.5 Self-Contained Breathing Apparatus	33

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.05Q		PC 75 Part 2	Monthly Fire Brigade Equipment Inventory	20
		PFP-SOG-001	Pre-Fire Plan Standard Operating Guidelines	0
	Corrective Action Documents	2315273	Incorrect Information Basis Provided to NRC	05/22/2019
		AR 2195016	OM 3.27 High Safety Significant Fire Barrier Questionable	03/30/2017
		AR 2300038	Door Did Not Close Freely Due To Wind	01/31/2019
		AR 2302041	OM 3.27 Not Updated Timely With New HSS Barriers	02/14/2019
		AR 2302823	HSS FP SYS Components Not Conservative in OM 3.27	02/21/2019
	Fire Plans	PFP-0-CB	Pre-Fire Plan Control Building Elev. 8 ft., 2 ft., 44 ft., and 66 ft.	2
	Miscellaneous	FPTE 2016-019	PBNP Detailed Fire Modeling Report: Fire Compartment 304N, Auxiliary Feedwater Pump Room North Section, EL. 8'-0"	1
		FPTE 2016-020	PBNP Detailed Fire Modeling Report: Fire Compartment 304S, Auxiliary Feedwater Pump Room South Section, EL. 8'0"	1
		FPTE 2016-021	PBNP Detailed Fire Modeling Report: Fire Compartment 305, 4160V Vital Switchgear Room, EL. 8'-0"	1
		FPTE 2016-022	PBNP Detailed Fire Modeling Report: Fire Compartment 308, Diesel Room - G01, EL. 8'-0"	1
		FPTE 2016-023	PBNP Detailed Fire Modeling Report: Fire Compartment 309, Diesel Generator - G02, EL. 8'-0"	1
71111.06	Calculations	2009-0008	Circulating Water Pump House Internal / External Flooding	0 & 2
		2014-0007	Allowable Flood Levels	3
		2014-04473	Internal Flooding Assessment of Emergency Diesel Generator Building	1
	Corrective Action Documents Resulting from Inspection	2330050	Inconsequential Error In DGB Flooding Calculation	10/02/2019
	Drawings	E-121202	Diesel Generator Building Concrete Plan @ EL 28' - 0"	8
	Procedures	ARB C81 4-1	Alarm Response Book - Building Sump / Trench Level Hi	1
		ARP C01 B 1-2	Alarm Response Procedure - Electric Fire Pump Running	3
		NP 8.4.17	PBNP Flooding Program	32
	Work Orders	40339097 02	DGB / Inspect Piping From Trenches Inside Building	01/27/2015



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		40644281	Test PAB and TB Sump Alarms	10/26/2019
71111.07T	Calculations	2005-0054	Control Building GOTHIC Temperature Calculation	8
	Corrective Action Documents	02188565	Delaminating Coating and Pits Inside HX-12B	02/28/2017
		02249144	HX-55B, G-02 Glycol Cooler HX, Foreign Material Found	02/12/2018
		02249167	Missing Piece from F-222 North Strainer Basket Might be Same as Piece Found in AR 02249144	02/12/2018
		02286065	U2 A Containment Fan Cooler Tubes Need Plugging	10/16/2018
		02296665	South SW Header Flowmeter Calibration	01/04/2019
		02304475	P-32C SW Pump Performance Outside Acceptance Criteria	03/05/2019
		02304497	P-32A SW Pump OOS Due to Hi Flow on IT-07A Comp. Test Data	03/06/2019
		02307153	Inspect HX-15D Coils & Condensate Drains	03/25/2019
		02310869	Rebaselining of P-32A and P-32C Improvements	04/16/2019
		02314119	FS-3765 G02 EDG Fire Protection Flow Switch Failure During TS-76	05/12/2019
		02315218	Elevated Seat Leakage on SW-LW-61 Radwaste SW Return	05/22/2019
		02316108	FS-3765 Will Not Clear Upon Restoration Following Maintenance	05/29/2019
	Corrective Action Documents Resulting from Inspection	02330268	2019 Heat Sink Inspection Question Regarding SW-833	10/03/2019
		02330279	NRC UHS Inspector Identified Inconsistent HX-55B Inspection Results Documentation	10/03/2019
		02330281	2019 Heat Sink Inspection Question on FSAR Temp. Disparity	10/03/2019
	Drawings	CBDM-207	ISI Classification Diagram Service Water	40
		CBDM-217	ISI Classification Diagram Auxiliary Feedwater System	41
		CBDM-2207	ISI Classification Diagram Service Water	33
	Engineering Changes	15413	Control Room Alternate Cooling	0
	Engineering Evaluations	PMCR 2174658	Periodic Maintenance Change Request Evaluation to Reduce Frequency of HX-55B Inspect and Clean From One Year to Two Years	02/07/2017
	Miscellaneous	Control 01832	HX-55A/B G-01/G-02 Glycol to Water HX specification sheet and Form U-1 Manufacturer's Data Report	09/12/2007

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		UFSAR 2018	Point Beach Nuclear Plant Units 1 & 2 Final Safety Analysis Report	UFSAR 2018
	Operability Evaluations	2265466	SW-LW-62 Timing Shut Issue	07/19/2018
	Procedures	AOP-13A	Circulating Water System Malfunction	25
		AOP-13C	Severe Weather Conditions	48
		AOP-9A	Service Water System Malfunction	37
		ARP C02 F 3-1	Alarm Response Procedure for Emergency Diesel Generator G-02 Glycol Cooler Low Flow Alarm	08/06/2014
	Work Orders	40399570	GL 89-13 Inspect Crib/Install Buoys and Fish Deterrent	08/03/2016
		40425576	HX-055B Eddy Current Testing	01/05/2017
		40430951	2HX-015A1 - A8 GL 89-13 Clean Heat Exchanger as Req.	01/25/2019
		40430992	GL 89-13 Inspect and Clean Pumphouse Forebay	04/18/2017
		40431005	IT-275, 2SW-2880 SW Supply to TB2 (CSD)	04/21/2017
		40438452	GL 89-13 Inspect Crib/Remove Buoys and Fish Deterrent	09/23/2016
		40461873	Inspect and Clean G-02 EDG HX-55B	01/05/2017
		40462394	HX-012B GL 89-13 Open/Inspect/Clean/Close HX	03/14/2017
		40473343	IT-270, 1SW-2880 SW Supply to TB1 (CSD)	10/20/2017
		40473363	FL 89-13 Inspect and Clean Pumphouse Forebay	11/08/2017
		40486697	SFP and Radwaste SW VLV Leak Checks	02/25/2017
		40493054	ICP 6.42 - Intake Surge Chamber Level Detection	08/11/2017
		40520839	G-02 EDG Endurance And Margin Testing per TS 82	09/10/2018
		40544125	IT-275, 2SW-2880SW Supply to TB2 (CSD)	11/23/2018
		40549413	HX-055B GL 89-13 Open/Inspect/Clean/Close G-02 EDG HX-55B	02/12/2018
		40556859	SFP and Radwaste SW VLV Leak Checks	03/22/2018
		40573714	IT-270, 1SW-2880 SW Supply to TB1 (CSD)	05/03/2019
		40595167	ICP 6.42 - Intake Surge Chamber Level Detection	02/15/2019
		40599350	IT-72, Service Water Valves	03/29/2019
		40607973	IT-07A, P-32A Service Water Pump Test	03/20/2019
		40607974	IT-07B, P-32B Service Water Pump Test	03/20/2019
		40610316	2 Year IT-07C, P-32C Service Water Pump	03/20/2019
		40613620	IT-07F, P-32F Service Water Pump Test	05/27/2019

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		40613631	IT-07D, P-32D Service Water Pump Test	05/27/2019
		40614733	IT-72, Service Water Valves	06/10/2019
		40619402	SFP and Radwaste SW VLV Leak Checks	05/29/2019
		40627240	2Z-027-4 Lubricate and Maintain Screen	08/15/2019
		40629182	TS-76 , Automatic Spklr/Water Spray Surv. Test	08/23/2019
		40629229	TS-34, U2C Accident Fan Cooler Units Surv. Test	09/19/2019
		40656371	2Z-027-1 Lubricate and Maintain Screen	08/13/2019
		40665061	FS-3765 G02 EDG Fire Protection Flow Switch Failure	06/19/2019
71111.11B	Corrective Action Documents	AR 2259869	Abnormal Response of 2HC-468 'A' Atmos. Controller	04/16/2018
		AR 2261478	Update ADV Controllers to Match Plant	04/25/2018
		AR 2277741	HU Issues Need to be Reviewed in Aggregate	08/28/2018
		AR 2315732	Missed Technical Specification Action Entry	05/25/2019
		AR 2330250	NRC Change in Medical Condition Not Reported to NRC	10/03/2019
		AR 53745	Inability to Null Steam Generator Atmospheric Dump Controllers	02/11/2004
	Corrective Action Documents Resulting from Inspection	AR 2330832	NRC Identified Simulator Testing Parameter Not Meet ANSI-3.5	10/08/2019
	Engineering Evaluations	Cycle 38 Testing	Real Time Test; 100% Steady State Drift Test; Steady State Performance Testing; Malfunction Testing	02/03/2018
		Cycle 39 Testing	Real Time Test; 100% Steady State Drift Test; Steady State Performance Testing; Malfunction Testing	04/10/2019
		Post Event Testing	Unit 1 Plant Trip – Circulating Water Malfunction	06/14/2018
		SCT 6.2.2. Unit 1	48% Power Steady State Performance Test Unit 1	02/03/2018
		SCT 6.2.2. Unit 1	75% Power Steady State Performance Test Unit 1 C39	09/09/2019
		SCT 6.2.3 Unit 1	48% Power Steady State Performance Test Unit 1 C39	09/09/2019
		SCT 6.2.3 Unit 1	28% Power Steady State Performance Test Unit 1 C38	01/20/2018
	Miscellaneous	2018 EXAM 3 RO	RO Written Examination	08/30/2018
		2018 EXAM 3 SRO	SRO Written Examination	08/30/2018
		Attendance	Licensed Operator Continuous Training Attendance Records	2018-2019

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		Records		
		eSOMS Credit for Standing Watch 10/1/2017 to 9/30/2019 Reports	Watch Proficiency Records	10/03/2019
		eSOMS Credit for Standing Watch 6/1/2019 to 6/30/2019 Report	Watch Proficiency Record	10/10/2019
		License Reactivation Records	2018 and 2019 License Reactivation Records Various	2018-2019
		Medical Records	Licensed Operator Medical Records (Various)	10/08/2019
		PBF-6097	Operations Watchstander Temporary Restriction Form	06/14/2019
		PBN JPM P000.002d.COT	Job Performance Measure	5
		PBN JPM P000.012a.AOT	Job Performance Measure	9
		PBN JPM P000.029.AOT	Job Performance Measure	8
		PBN JPM P000.039r.AOT	Job Performance Measure	0
		PBN JPM P000.052.COT	Job Performance Measure	2
		PBN JPM P004.013b.COT	Job Performance Measure	1
		PBN JPM P010.002.COT	Job Performance Measure	1
		PBN JPM P028.002a.EMR	Job Performance Measure	2
		PBN JPM P060.002b.AOT	Job Performance Measure	0
		PBN JPM	Job Performance Measure	0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		P062.006a.COT		
		PBN JPM P064.010.COT	Job Performance Measure	2
		PBN LOC 000 004E	Simulator Scenario Guide	4
		PBN LOC 000 054E	Simulator Scenario Guide	0
		PBN LOC 000 057E	Simulator Scenario Guide	0
		PBN LOC 000 064E	Simulator Scenario Guide	0
		Performance Records	Licensed Operator Annual Examination Performance Records	2018-2019
		Remediation Records	2018 and 2019 Remediation Packages Various	2018-2019
		Training Plan	Long Range Training Plans 2018-2020	2018-2020
	Procedures	DTG 94.0	Simulator Health Management	4
		DTG 94.1	Scenario-Based Testing Desktop Guide	04/25/2013
		DTG 94.3	Simulator Work Requests	3
		FP-T-SAT-74	NRC Operator License Application and Renewal Requirements	9
		OP-AA-100-1001	License Maintenance and Activation	6
		TR-AA-220-1002	NRC Licensed Operator Exam Security	4
		TR-AA-220-1004	Licensed Operator Continuing Training Annual Operating and Biennial Written Exams	5
		TR-AA-221-1000	Simulator Change Control	5
		TR-AA-230-1007	Conduct of Simulator Training and Evaluation	12
	Self-Assessments	AR - L2A #: 2326212	NRC IP 71111.11 Pre-Inspection Assessment	08/25/2019
		PBN 17-007	Nuclear Assurance Audit of Point Beach Training Program	08/11/2017
	Work Orders	SWR 02104275	EC 284214 Unit 2 PORV Pneumatic Backup (NFPA 805)	01/21/2016
		SWR 02150118	EC 283634 Replace 1HC-135 Letdown Backpressure Controller	08/16/2016

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		SWR 02181583	EC 286487 Replace 1TR-2000A, 1TR-2000B, and 1TR-2001 Recorders	01/25/2017
		SWR 02212171	SW Pump Discharge Check Valve Failure Malfunction	06/26/2017
		SWR 02308612	Excessive Steam Dump Capacity	07/10/2019
		SWR 02323981	Condensate Pump Mini Recirculation Flow Orifice Size	08/09/2019
		SWR 02329323	Xenon Response During Rapid Load Reduction	09/26/2019
71111.11Q	Corrective Action Documents Resulting from Inspection	AR 2333755	U1 Turb Stop Vlv Testing Date Incorrect - NRC Identified	10/31/2019
	Miscellaneous	PBN LOC 19F 003E	As Found	0
	Procedures	OP 2D Unit 1	Power Operation Maneuvering - Unit 1	1
		TS 5	Rod Exercise Test Unit 1	35
71111.12	Corrective Action Documents	AR 2272613	Issue Discovered with Commercial Grade Dedication	07/18/2019
		AR 2286089	2P-11A Pump To Motor Coupling Retorque (PWE)	10/16/2018
		AR 2299832	1CS-256B Leaking Air To Atmosphere (Air To CS-3125 MFIV)	01/30/2019
		AR 2303942	1AF-4006-O MOV Wiring Drawing Issues	02/28/2019
		AR 2306821	H21-21 Breaker Failed To Close	03/21/2019
		AR 2312211	Unusual Odor From 1C-164 RP Train B Relay Logic Cabinet	04/25/2019
		AR 2312347	Relay 1RC-3A Found De-Energized During Visual Inspection	04/26/2019
		AR 2312381	Bus H-02 MR Planned Unavailability Perf Criterion Exceeded	04/26/2019
		AR 2313368	RC-4A Found Dropped Out During WR94193589	05/06/2019
		AR 2313489	Early Failure of Reactor Protection Relays	05/06/2019
		AR 2313558	CAT ID 9087982 Lists Incorrect Part Number	05/07/2019
		AR 2314346	CPED Extent of Condition	05/14/2019
		AR 2315450	IEE Paperwork Not Performed For RPS Relays	05/23/2019
		AR 2320440	Replace 1RC-1A, 1RC-2A, and 1RC-4A Reactor Protection Relays	07/09/2019
		AR 2327756	G-05 Trip Post-Maintenance During PC 29 Trip 17	09/12/2019

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	Corrective Action Documents Resulting from Inspection	AR 2334539	2AF-4000 Failed to Close	11/07/2019
		AR 2338314	FME Controls Not Documented	12/13/2019
		AR 2335957	Corrective Action Closure Notes Not Aligned	11/18/2019
	Drawings	499B466 Sheet 867	Elementary Wiring Diagram Turbine Driven Auxiliary Feedwater Pump Discharge	16
	Engineering Evaluations	EE 484267	Commercial Grade Evaluation For Catalog ID 9087982 (Reactor Protection Relay)	06/11/2019
	Miscellaneous		Maintenance Rule Scoping and Performance Criteria: 13.8KV System	3 & 4
			Maintenance Rule Performance Criteria: Condensate and Feedwater System	06/06/2012
			Maintenance Rule Performance Criteria: Auxiliary Feedwater	02/24/2016
			Maintenance Rule Performance Criteria - Gas Turbine	02/07/2006
			Maintenance Rule (a)(1) Status Evaluation: 13.8 KV	06/12/2019
			Maintenance Rule (a)(1) Action Plan: 13.8KV	10/03/2019
		EVT-GT-2019-36351	Maintenance Rule Functional Failure Evaluation For AR 2327756	09/26/2019
	Procedures	MA-AA-101-1000	Foreign Material Exclusion Procedure	24
		RMP 9374-4	Functional Testing of Contactors / Thermal Overload Relays	10
	Work Orders	40574589 01	1RP - Replace Train A RT and RC Relays	04/14/2019
		40575120 13	2AF-04000 / Remove Sealtite	10/10/2019
		40575120 14	2AF-04000 / Reinstall Sealtite	10/18/2019
		40575120 19	2AF-04000; Stroke Valve-PMT	10/19/2018
		40648400 01	1CS-256B Leaking Air To Atmosphere (Air To 1CS-3125 MFIV)	04/13/2019
71111.13	Corrective Action Documents	AR 2335107	Strainer Cleaning Not Included In Risk Profile	11/11/2019
	Miscellaneous		Current Risk Summary Report; PBN Unit 1 and 2	10/24/2019
			Current Risk Summary Report; PBN Unit 1 and 2	11/15/2019
			Point Beach Station Unit 1 and 2 Daily Status Report	10/24/2019

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			Current Risk Summary Report; PBN Unit 1 and 2	12/26/2019
			Phoenix Risk History	12/26/2019 - 12/27/2019
71111.15	Calculations	2014-0007	Allowable Flood Levels	3
		2014-02058	Internal Flooding Effects	2
	Corrective Action Documents	AR 2299832	1CS-256B Leaking Air to Atmosphere (Air to 1CS-3125 MFIV)	01/30/2019
		AR 2330625	Valve Leak By	10/07/2019
		AR 2332670	1OS-3-DV (Xover Steam Dump Valve 3) Degraded Performance	10/23/2019
		AR 2334885	Increased RCS Unidentified Leakage due to 1CV-112A Leakby	11/09/2019
		AR 2337517	Pressure in 1T-224B Slowly Decreasing Since 10/28/19	12/04/2019
	Corrective Action Documents Resulting from Inspection	AR 2328869	MFIV Design Low temperature Value of -20 deg F Questioned	09/23/2019
		AR 2339135	RHR Cubicle Drain Valve Leakage	12/20/2019
	Drawings	684J971 Sheet 1A	PI&D Waste Disposal System	78
	Engineering Evaluations	2019-0022	Evaluation of RHR Cubicle Drain Valve Backleakage	0
	Miscellaneous		Flowserve Certificate of Compliance/Conformance [for Main Feedwater Isolation Valve Components]	03/25/2011
		NPM 2002-0595	Siemens Westinghouse Engineering Study WEP-02-0135 Dated 09/24/02	11/08/2002
	Work Orders	40641320 01	2WL-04100 Valve Leak Check	10/07/2019
		40641321 01	1WL-04101 Valve Leak Check	09/19/2019
		40641322 01	2WL-04101 Valve Leak Check	10/07/2019
71111.18	Corrective Action Documents	AR 2332170	Inverter Transfer Lockout Switch Operation Not As Expected	10/19/2019
		AR 2332502	New 2DY-04 Inverter Aligned To 2Y-104 Over Voltage Alarm	10/22/2019
		AR 2332530	Changes in Yellow Power Instrument Readings	10/22/2019
		AR 2333726	Track Updates For EC 291314 (NRC Open Phase Inspection)	10/31/2019



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		AR 2334823	WO Directed Calibration of Wrong Relay	11/08/2019
		AR 2334984	Unexpected Inverter Trouble Alarms During Tagout	11/11/2019
	Engineering Changes	290150	White and Yellow Bus Inverter and Static Switch Replacement	3
	Miscellaneous		Failure Modes and Effects Analysis: 12kVA Inverter	09/06/2018
	Work Orders	40574458 10	2DY-04 EC 290150 Yellow Bus INV & Static Switch Rep.	10/19/2019
		40574458 18	1DY-04, Wire Static Switch Control Circuit From TB-49	10/01/2019
		40574458 41	2-27/Y04 and 2-27/Y104 Under Voltage Relay Calibrations	11/08/2019
71111.19	Corrective Action Documents	AR 2334362	SW-04479 Measured Packing Friction Exceeds Target Value	11/05/2019
		AR 2334369	SW-04479 Active Packing Leak	11/05/2019
		AR 2336432	Incorrect PMT In 1RMP 9306-1 and 2RMP 9306-1	11/21/2019
	Corrective Action Documents Resulting from Inspection	AR 2335692	FME Practices Observed Not In Compliance With Requirements	11/15/2019
		AR 2337901	Work Package Has Inconsistent Placekeeping - NRC Identified	12/10/2019
		AR 2339922	Procedure Step Signed Off Out of Order, NRC Identified	01/03/2020
		AR 2339952	Follow Up From AR 2337901	01/03/2020
	Procedures	1RMP 9306-1	Main Steam Non-Return Check Valve Inspection Without Removing Cover (Unit 1)	1
		2RMP 9306-1	Main Steam Non-Return Check Valve Inspection Without Removing Cover (Unit 2)	1
	Work Orders	40574462 12	DY-0D, OPS and EM To Energize and Test New Inverter	11/01/2019
		40618352	B52-P-035A - Circuit Breaker Test	10/15/2019
		40618861	SW-04479-O: MOV Actuator Diagnostics & Inspections	11/05/2019
		40667301	1AF-4061/Replace Relief Valve	10/24/2019
		40671070	B42-P-035A - Contactor Clean, Inspect & Test	10/15/2019
		40673408	Change Oil in P-035A-M Change Oil in Electric Fire Pump Motor	10/15/2019
		40676320	0-PT-FP-003 Electric Motor-Driven Fire Pump Functional Test	10/15/2019
		40690970	2AF-4000 Failed To Close Troubleshooter	11/07/2019
		40690970 03	2AF-04000 OPS PMT / RTS Testing	11/07/2019

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		40691838 01	F-222/EDG HX-55B Inlet Strainer Will Not Isolate	11/15/2019
		40691838 04	HX-055B Open/Inspect G-02 EDG Coolant HX	11/15/2019
71111.22	Procedures	IT 05 Train A	Train A Containment Spray Pump and Valves Unit 1	7
		IT 08A	Cold Start of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly) Unit 1	82
		OP 2A Unit 1	Normal Power Operation Unit 1	12
71114.04	Corrective Action Documents	AR02271508	50.54(q) Domentation Improvement	07/10/2018
		AR02272045	References for the Emergency Plan	07/13/2018
		AR02294041	Commitment Not Updated Following LAR	12/11/2018
		AR02313560	Emergency Plan Documents not Revised to Remove the OSRPF	05/07/2019
		AR02316012	Emergency Preparedness Annual Review - 10CFR 50.54(q) Discrepancies	05/29/2019
	Miscellaneous	2018-PB-044	Emergency Plan 7.0	11/16/2018
		2018-PB-046	Emergency Plan Appendix L	11/16/2018
		2019-PB-001	Emergency Plan Appendix A	02/05/2019
		2019-PB-002	Emergency Plan 5.0	02/05/2019
		2019-PB-003	Emergency Plan 2.0	02/05/2019
		2019-PB-004	Emergency Plan 6.0	02/05/2019
		2019-PB-010	Emergency Plan Implementing Procedure 1.2-1	05/20/2019
		2019-PB-011	Emergency Plan Implementing Procedure 1.2	05/20/2019
		2019-PB-012	Emergency Plan Appendix B	05/20/2019
		2019-PB-013	On-shift Staffing	06/03/2019
71151	Corrective Action Documents		AR Searches; Systems: Component Cooling Water, Service Water	10/01/2018 – 09/30/2019
			AR Searches; Systems: Residual Heat Removal	10/01/2018 – 09/30/2019
	Miscellaneous		MSPI Derivation Reports; Residual Heat Removal, Cooling Water; Unavailability Index; Units 1 and 2	10/01/2018 - 09/30/2019
			MSPI Derivation Reports; Residual Heat Removal, Cooling Water; Unreliability Index; Units 1 and 2	10/01/2018 - 09/30/2019
			MSPI Margin Reports; Units 1 and 2	10/01/2018 -

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
				09/30/2019
		PBN-BFJR-18-054	MSPI Basis Document for PBNP	26
71152	Corrective Action Documents	AR 2294755	Control Rod F-06 Experienced Uncontrol motion	12/14/2018
		AR 2298207	IRPI F-6 at 22 Steps Deviation / Limit is 24	01/16/2019
		AR 2298878	Unit 1 IRPI Deviation Greater Than 8 Steps	01/22/2019
		AR 2299991	IRPI J-10 on 2C-04 Lowered by 8 Steps (PPCS Indic Stable)	01/31/2019
		AR 2320920	F-8 IRPI Erratic Indication	07/14/2019
		AR 2321593	F-08 RPI Drifting on 1C-04	07/18/2019
		AR 2324133	Dropped F-6 Rod	08/12/2019
		AR 2332919	Momentary Control Rod Deviation Alarm	10/24/2019
		AR 2334233	IRPI for Unit 2 J-04 is Noisy	11/04/2019
		AR 2335253	Unit 2 RPI J4 Noisy, IRPI is OOS	11/12/2019
		AR 2336143	Trend AR for IRPI Issues	11/19/2019
	Miscellaneous		Trend Report Jun 1 - Nov 30, 2019	12/02/2019