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

September 10, 2024

John A. Krakuszeski
Site Vice President
Duke Energy Progress, LLC
8470 River Rd. SE
M/C BNP001
Southport, NC 28461-0429

SUBJECT: BRUNSWICK UNITS 1 & 2 – FOCUSED ENGINEERING INSPECTION COMMERCIAL GRADE DEDICATION REPORT 05000324/2024010 AND 05000325/2024010

Dear John A. Krakuszeski:

On August 28, 2024, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Brunswick Units 1 & 2 and 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.

Two findings of very low safety significance (Green) are documented in this report. Two of these findings involved violations of NRC requirements. We are treating these violations as non-cited violations (NCVs) consistent with Section 2.3.2 of the Enforcement Policy.

If you contest the violations or the significance or severity of the violations documented in this inspection report, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region II; the Director, Office of Enforcement; and the NRC Resident Inspector at Brunswick Units 1 & 2.

If you disagree with a cross-cutting aspect assignment in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region II; and the NRC Resident Inspector at Brunswick Units 1 & 2.

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,

Signed by Baptist, James
on 09/10/24

James B. Baptist, Chief
Engineering Branch 1
Division of Reactor Safety

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

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: BRUNSWICK UNITS 1 & 2 – FOCUSED ENGINEERING INSPECTION COMMERCIAL GRADE DEDICATION REPORT 05000324/2024010 AND 05000325/2024010 DATED SEPTEMBER 10, 2024

DISTRIBUTION:
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T. Su, RII/DRS
T. Fanelli, RII/DRS
RidsNrrPMBrunswick Resource

ADAMS ACCESSION NUMBER: ML24248A206

X SUNSI Review		X Non-Sensitive ☐ Sensitive		X Publicly Available ☐ Non-Publicly Available	
OFFICE	RII/DRS	RII/DRS	RII/DRS		
NAME	T. Fanelli	S. Egli	J. Baptist		
DATE	09/03/24	09/03/24	09/10/24		

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers:	05000324 and 05000325
License Numbers:	DPR-62 and DPR-71
Report Numbers:	05000324/2024010 and 05000325/2024010
Enterprise Identifier:	I-2024-010-0047
Licensee:	Duke Energy Progress, LLC
Facility:	Brunswick Units 1 & 2
Location:	Southport, N.C.
Inspection Dates:	August 05, 2024 to August 28, 2024
Inspectors:	S. Egli, Sr. Construction Inspector T. Fanelli, Senior Reactor Inspector T. Su, Reactor Inspector
Approved By:	James B. Baptist, Chief Engineering Branch 1 Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Focused Engineering Inspection Commercial Grade Dedication at Brunswick Units 1 & 2, 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

Failure to Maintain the Quality of Lubricants			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000325,05000324/2024010-01 Open/Closed	[H.3] - Change Management	71111.21N.03
The NRC identified two examples of a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion III for the failure to provide objective evidence of shelf life and ensure the quality assurance requirements for lubricants prior to their installation in their final locations.			

Failure to Maintain Qualification of Relays			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000325,05000324/2024010-02 Open/Closed	[H.5] - Work Management	71111.21N.03
The NRC identified a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion III for the failure to install safety related relays in the configuration that maintained their qualification.			

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71111.21N.03 - Commercial Grade Dedication

Commercial Grade Dedication (11 Samples)

(1) **Capacitors, CATID 9220128040**
(2) **Sealant (DC MCCB), CATID 51401651**
(3) **Current Transformer/Diode, CATID 9230036476**
(4) **Breakers: (MCCBs), CATID 73751653**
(5) **Relay Timing, CATID 9230032214**
(6) **Grout/Cement, CATID 9220093400**
(7) **Lubricants, Super-O-Lube CATID 73991622**
(8) **Lubricants, CATID 9220201439**
(9) **Gasket, CATID 69911352**
(10) **Thrust Bearing, CATID 73878852**
(11) **Pump, CATID 73740359**

INSPECTION RESULTS

Failure to Maintain the Quality of Lubricants			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000325,05000324/2024010-01 Open/Closed	[H.3] - Change Management	71111.21N.03
The NRC identified two examples of a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion III for the failure to provide objective evidence of shelf life and ensure the quality assurance requirements for lubricants prior to their installation in their final locations.			
Description: The inspection sampled two lubricants for which the manufacturer specified a five-year shelf life if stored at 68°F to 74°F & relative humidity 40-44% ("MOV long life" and "Mobil grease XHP"). Brunswick shelf life for lubricants (oils and greases) specified that shelf life was not applicable to any lubricants other than lube oil while stored in American National Standard Institute (ANSI) level B conditions (up to 140°F). The Brunswick Quality Assurance Program (QAP) is based on the criteria developed in ANSI N45.2, "Quality Assurance Program Requirements for Nuclear Power Plants," and its criteria sub standards. For the control of purchase material equipment, and services, the QAP requires objective evidence of			

quality be furnished for purchased items. This required verifiable evidence, verifiable by the inspector. Standard N45.2.2, “Packaging, Shipping, Receiving, Storage and Handling of Items for Nuclear Power Plants.” The General requirements of section 6.1, stated, in part, that “levels and methods of storage necessary are defined to minimize the possibility of damage or lowering of quality due to corrosion, contamination, deterioration or physical damage from the time an item is stored upon receipt until the time the item is removed from storage and placed in its final location.”

Example 1: Duke Energy performed a corporate shelf-life evaluation. It is documented in Engineering Change (EC) 400765, Generic Shelf-Life Program, Revision 4. The EC specified that the quality of lubricants was not affected by degradation mechanisms prior to placement in its final location. The EC stated, “DEP’s historical practice of assigning lubricant shelf life per the guidance provided by Tables 1 and 2 below, combined with a lack of failures attributed to lubricant degradation in storage provides reasonable assurance that the current DEP practice is acceptable and shall continue as the acceptable practice for shelf life of lubricants.” The table stated in part, “No shelf life applicable (except as noted in TABLE 2 below).” Table 2 excepted lube oil. The EC did not perform any technical evaluation of the degradation mechanisms (e.g., oxidation, moisture, temperature, and contaminants) to demonstrate that they are not in effect at Duke sites.

The inspectors observed that lubricants stored in the warehouse were degrading. For example, the oils in grease were leaching out and soaking into the containers they were stored in and onto the shelving. This degradation was contrary to the EC as stated above. In addition, the corrective action program (CAP) documented examples of degraded conditions that could be attributed to lubricant degradation and thus it could not be ruled out. Based on the inspector observations and CAP results the EC statement about lubricant “degradation in storage” was unsubstantiated. The inspectors determined that degraded lubricants could have been used for maintenance because the replacement frequencies were shorter than the specified life of the lubricants.

Example 2: The inspectors noted that, once lubricants were issued from the warehouse to the maintenance department, the quality of the storage conditions were not maintained to ensure the life of the lubricants were not degraded. The maintenance rooms did not have storage locations that were controlled by N45.2.2.

The manufactures of MOV long life and Mobil Grease specified that the established life was approximately five years dependent on if the containers were unopened and stored at around 68°F to 74°F. The inspectors noted that the storage and handling conditions in the maintenance areas were such that the lubricants could degrade further than allowed for by the lubricant specifications. The maintenance personnel did not have guidance to maintain the quality of the lubricants.

The Inspectors found the grease used for safety related components were checked out from the warehouse and stored in other areas of the plant unsealed without proper environmental controls before placement in their final locations i.e. in the components that required their application. Based on the observed degradation and recent degraded equipment examples in the CAP, the inspectors determined this was current licensee performance.

Corrective Actions: The licensee entered the issue into the corrective action program to restore compliance

Corrective Action References: CR02526383

Performance Assessment:

Performance Deficiency: The failure to provide objective evidence of shelf life and ensure the quality assurance requirements for lubricants prior to their installation in their final locations was a performance deficiency.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Design Control 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 engineering changes that failed to evaluate objective evidence of the properties of lubricants (oils and greases) adversely affected the designed reliability of systems that respond to initiating events.

Significance: The inspectors assessed the significance of the finding using IMC 0609 Appendix A, "The Significance Determination Process (SDP) for Findings At-Power." Exhibit 2, A.1, If the finding is a deficiency affecting the design or qualification of a mitigating SSC, does the SSC maintain its operability or PRA functionality? – YES --> GREEN

Cross-Cutting Aspect: H.3 - Change Management: Leaders use a systematic process for evaluating and implementing change so that nuclear safety remains the overriding priority.

Leaders did not use a systematic process for evaluating the quality of lubricants over time with objective evidence and implementing that change so that nuclear safety remained the overriding priority.

Enforcement:

Violation: 10 CFR 50 Appendix B, to 10 CFR Part 50, Criterion III, Design Control, requires, in part, that measures shall be established to assure that applicable regulatory requirements and the design basis, as defined in § 50.2 and as specified in the license application, for those structures, systems, and components to which this appendix applies are correctly translated into specifications, drawings, procedures, and instructions. These measures shall include provisions to assure that appropriate quality standards are specified and included in design documents and that deviations from such standards are controlled.

Contrary to the above, since 1995, the site did not provide design control measures to include provisions to assure that appropriate quality standards were specified and included in design documents for evaluating the quality of lubricants and that deviations from such standards for quality lubricants were controlled.

Enforcement Action: This violation is being treated as a non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.

Failure to Maintain Qualification of Relays			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000325,05000324/2024010-02	[H.5] - Work Management	71111.21N.03

	Open/Closed		

The NRC identified a Green non-cited violation (NCV) of 10 CFR 50, Appendix B, Criterion III for the failure to install safety related relays in the configuration that maintained their qualification.

Description: The inspection sampled Allen Bradley 700-RTC relays that were commercial grade dedicated (CGD) by Nuclear Logistics Incorporated (NLI) for the site. The licensing basis required the relays to be qualified to the range of voltage, frequency, load, electromagnetic interference, and other electrical characteristics in accordance with IEEE 323-1974, "IEEE Standard-for Qualifying Class 1E Equipment for Nuclear Power Generating Stations." To meet the "electromagnetic interference" requirement, the CGD used the tests and acceptance criteria in MIL-STD-461G, "Requirements for The Control of Electromagnetic Interference Characteristics of Subsystems and Equipment."

Relay qualification report QR-700RTC-1, Rev. 1, identified electromagnetic interference (EMI) during MIL-STD-461G test for conducted susceptibility (test CS114) in the frequency range from 10 kHz – 30 MHz. Specifically, the degraded condition appeared in the range 2.6MHz to 20.3MHz and required the installation of a ferrite bead to mitigate the condition. This made the ferrite bead a required addition to the installed components in the emergency diesel generators (EDGs). The qualification report documents that the relay was successfully retested with input power lines wrapped three turns through a ferrite bead (Fair Rite P/N 0475176451).

Neither the ferrite beads or any other device to filter this noise was installed in the EDGs 700-RTC circuits. The 700-RTC relays are not installed in a qualified condition and are susceptible to failures due to conducted high frequency noise.

Corrective Actions: The licensee entered the issue into the corrective action program to restore compliance.

Corrective Action References: CR2526612

Performance Assessment:

Performance Deficiency: The failure to install safety related relays in the configuration that maintained their qualification was a performance deficiency.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Design Control 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 failure to install the relays in the qualified condition exposed the EDGs to failures due to high frequency noise affecting the reliability.

Significance: The inspectors assessed the significance of the finding using IMC 0609 Appendix A, "The Significance Determination Process (SDP) for Findings At-Power." Exhibit 2, A.1, If the finding is a deficiency affecting the design or qualification of a mitigating SSC, does the SSC maintain its operability or PRA functionality? – YES --> GREEN

Cross-Cutting Aspect: H.5 - Work Management: The organization implements a process of planning, controlling, and executing work activities such that nuclear safety is the overriding priority. The work process includes the identification and management of risk commensurate to the work and the need for coordination with different groups or job activities.

The organization did not implement a process of planning, controlling, and executing work activities to install digital relay that were susceptible to high frequency interference such that nuclear safety is the overriding priority. The work process did not include the identification of different mitigation techniques for different kinds of interference and how that may be used to management the risk of using the relays commensurate with the work and the need for coordination with different groups or job activities
Enforcement: Violation: 10 CFR 50 Appendix B, to 10 CFR Part 50, Criterion III, Design Control, requires, in part, that measures shall be established to assure that applicable regulatory requirements and the design basis, as defined in § 50.2 and as specified in the license application, for those structures, systems, and components to which this appendix applies are correctly translated into specifications, drawings, procedures, and instructions. Contrary to the above, since April 2016, the site failed to assure that applicable regulatory requirements and the design basis, for 700-RTC relay circuit installations were correctly translated into specifications, drawings, procedures, and instructions used to ensure the circuits were installed correctly. Enforcement Action: This violation is being treated as a non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.

EXIT MEETINGS AND DEBRIEFS

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

- On August 28, 2024, the inspectors presented the Focused Engineering Inspection Commercial Grade Dedication results to John A. Krakuszeski and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Calculations	BNP-E-2.006	Unit 1 480V Vital MCC Calculations	Rev. 22
71111.21N.03	Corrective Action Documents	AR 00210659	Diesel Generator #1 Fuel Injection Leakage	10/27/2006
71111.21N.03	Corrective Action Documents	AR 00327572	2-B32-F023A, 2-B32-F031A, 2-B32-F031B Failed Motor Inspect	03/26/2009
71111.21N.03	Corrective Action Documents	AR 00418628	2C RHR SW Booster Pump Making Very Loud Noise When Running	08/26/2010
71111.21N.03	Corrective Action Documents	AR 00755161	2C RHRSW Booster Pump Motor Brg has Oil Weepage	06/18/2015
71111.21N.03	Corrective Action Documents	AR 02373438	2C RHR SW Booster Pump Has a Small Packing Leak	03/10/2021
71111.21N.03	Corrective Action Documents	AR 02398997	1-E41-F004-MO Operator Will Not Go Into Manual Mode	09/23/2021
71111.21N.03	Corrective Action Documents	AR 02488552	Minimum Bend Radius Not Achieved for Some FO and LO Flex Hoses on EDGs	09/28/2023
71111.21N.03	Corrective Action Documents Resulting from Inspection	AR 02526383	Discrepancies in Shelf Life Evaluation and Application	08/22/2024
71111.21N.03	Corrective Action Documents Resulting from Inspection	AR 02526612	Relay Installation Not in Conformance With Qualification Report	08/26/2024
71111.21N.03	Drawings	0-FP-5859	Valve Assembly Con-C-Cap Explosive Actuated	Rev. A
71111.21N.03	Drawings	0-FP-84248	8XI3AD Pump Cross Sectional Dwg	Rev. A
71111.21N.03	Drawings	DW-59310109	Fuel Injection Pump	03/21/1972
71111.21N.03	Engineering Changes	00000067954	B,EE,Q2,Various,Grease,MOBILGREASE XHP 220 Series, EXXON MOBIL, JH/FS	Rev. 0
71111.21N.03	Engineering Changes	0000073996	C, EE, Various, Various, Bearing, SKF, JB/JT/LC SKF Explorer Bearing	Rev. 2
71111.21N.03	Engineering Changes	0000079457	C, EE, Q2, VARIOUS, GREASE, MOV LONG LIFE, FORSYTHE/CROMPTON, JT/JB	Rev. 0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Engineering Changes	0000081016	C, CGI, Q2, Various, Lubricants, EXXONMOBIL, WP/MS	Rev. 2
71111.21N.03	Engineering Changes	0000098353	C, CGI, Various, Bearing, Various Types, MH/JB	Rev. 0
71111.21N.03	Engineering Changes	400765	Generic Shelf Life Program	Rev. 4
71111.21N.03	Engineering Changes	EC 288479	C,EE,Q1,9220093400,Masterflow 928 Grout, BASF, RFH/FS Reduction in Quick Lime Contained in Product	Rev. 0
71111.21N.03	Engineering Changes	EC 411104	Service Water Intake Structure (SWIS) Repair Project	Rev. 7
71111.21N.03	Engineering Evaluations	0944 VA20082	Westinghouse Nuclear Parts Audit Package	01/19/2021
71111.21N.03	Engineering Evaluations	DR-79 EQ	Westinghouse Electric Corporation Report No. 30103-CCR-4 Environmental Qualification for Nuclear Safety Related Class 1E Components devices for Replacing Functionally Equivalent Equipment In the G. E. 7700 Motor Control Centers,	Rev. 4
71111.21N.03	Engineering Evaluations	EWR 13462	Use of Loctite PST #580 at Brunswick Nuclear Plant	4/25/1994
71111.21N.03	Engineering Evaluations	Material Evaluation 003850.00	Gasket, Ring, 1-1/2", SS	09/17/1998
71111.21N.03	Engineering Evaluations	Material Evaluation 07646	GREASE, MOV LONG LIFE, Grades 0, 1, 2	07/28/2010
71111.21N.03	Engineering Evaluations	ME No; 001203.00	Material Evaluation	07/07/1995
71111.21N.03	Engineering Evaluations	QR-09314565-1	Qualification Report for Time Delay Relays Allen-Bradley	Rev. 1
71111.21N.03	Engineering Evaluations	QR-700RTC-1	EMI-RFI Qualification Report for Allen-Bradley Relay Mod	Rev. 1
71111.21N.03	Engineering Evaluations	VVR-700RTC-01	Commercial Grade Dedication Verification and Validation Report	Rev. 0
71111.21N.03	Miscellaneous	00328626	QC Inspection Report for PO 03083136	12/05/2018
71111.21N.03	Miscellaneous	00333563	QC Inspection Report for PO 03092247	07/17/2019

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Miscellaneous	00338666	QC Inspection Report for PO 03109526	04/07/2020
71111.21N.03	Miscellaneous	00344467	QC Inspection Report for PO 03125422	03/30/2021
71111.21N.03	Miscellaneous	00345522	QC Inspection Report for PO 03126732	05/18/2021
71111.21N.03	Miscellaneous	00346483	QC Inspection Report for PO 03120884	12/01/2021
71111.21N.03	Miscellaneous	238-011	Specification Horizontal Centrifugal Pumps for Service Water Supply to Residual Heat Removal System	Rev. 7
71111.21N.03	Miscellaneous	9527-01-201-1	Specification for Emergency Diesel Generator Sets	Rev. 4
71111.21N.03	Miscellaneous	DBD-39	Design Basis Document for Emergency Diesel Generator and Supplemental Diesel Generator Systems	02/07/2024
71111.21N.03	Miscellaneous	DBDE-05	Design Basis Document: Standby Liquid Control System	Rev. 16
71111.21N.03	Miscellaneous	EPRI 1019518	Lubrication Guide	Rev. 4
71111.21N.03	Miscellaneous	EPRI NP-6408	Guidelines for Establishing, Maintaining, and Extending the Shelf Life Capability of Limited Life Items.	Rev. 1
71111.21N.03	Miscellaneous	FP-50588	Technical Manual Valve, Explosive Actuated	Rev. 0
71111.21N.03	Miscellaneous	ME07922R00	Circuit Breakers & Supplementary Protectors Motor Circuit Protectors	Rev. 0
71111.21N.03	Miscellaneous	Mobile Industrial Lubricants Technical Topic	Shelf Life Recommendations for Lubricating Oils and Greases	2012
71111.21N.03	Miscellaneous	PO 03058272	Grout, Construction, Masterflow 928, Ref. BASF Product Data Sht Form No 1019303	Rev. 1
71111.21N.03	Miscellaneous	PO 03083136	Lubricant, Grease, MOV Long Life, Grade 1, Tube, 14OZ	11/29/2018
71111.21N.03	Miscellaneous	PO 03092247	Bearing, Trust, 2.7559, 5.90550, 1.3780, Angular Contact, Ball Bearing	05/09/2019
71111.21N.03	Miscellaneous	PO 03109526	Lubricant, Grease, Mobile Grease XHP 222, TU, 14 OZ Tubes, 10 Tubes Per Cartoon	03/24/2020
71111.21N.03	Miscellaneous	PO 03110236	Relay, Timing, Solid State (RTC), 0.05-64 Minutes, 120VDC 110/120VAC, 5A, 4	Rev. 1
71111.21N.03	Miscellaneous	PO 03117513	GROUT, CONSTRUCTION, MASTERFLOW 928, REF. BASF PRODUCT DATA SHT FORM NO 1019303	Rev. 0
71111.21N.03	Miscellaneous	PO 03118288	Sealant, Pipe, Thread, PST-580,	10/07/2020
71111.21N.03	Miscellaneous	PO 03118457	Transformer, Current, 0.333V Output, Input 5A, Split Core	Rev. 1
71111.21N.03	Miscellaneous	PO 03120884	Pump, Injection, Fuel, Diesel, Repairable	04/20/2021
71111.21N.03	Miscellaneous	PO 03125422	Lubricant, Grease, MOV Long Life, Grade 1, Tube, 14OZ	03/15/2021

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Miscellaneous	PO 03126732	Gasket, Ring, 1-1/2 IN, 304SS	04/20/2021
71111.21N.03	Miscellaneous	PO 03167763	CAPACITOR, .., 7300MFD,150VDC	08/26/2023
71111.21N.03	Miscellaneous	PO 3110236	Receipt Inspection Report	08/21/2020
71111.21N.03	Miscellaneous	PO 3110236	Receipt Inspection Report	08/21/2020
71111.21N.03	Miscellaneous	PO 3114719_UTC 30192602	Receipt Inspection Report	01/13/2021
71111.21N.03	Miscellaneous	PO 3114719_UTC 30198086	Receipt Inspection Report	07/07/2021
71111.21N.03	Miscellaneous	PO03114719	Breaker, Motor Circuit Protector, 3 Amp Continuous Rating, 9-30 Amp Magnetic Trip Range, 600VAC Max, 65,000 Amp Interrupting Current Rating at 480 VAC	Rev. 2
71111.21N.03	Miscellaneous	Purchase Order (PO) 03114719	Breaker, Circuit, Thermal Magnetic, 600V, 3A, 65KAIC@480V, Non-Aluminum Terminals, 3P	Rev. 0
71111.21N.03	Procedures	0MMM-053	Equipment Lubrication Application Guidance and Lubrication Listing	Rev. 133
71111.21N.03	Procedures	0PM-MO009	AC and DC Limitorque Motor Operated Valve Preventive Maintenance Procedure	Rev. 22
71111.21N.03	Procedures	0PM-MO504	Mechanical Inspection and Lubrication of Limitorque Operators	Rev. 48
71111.21N.03	Procedures	AD-EG-ALL-1103	Procurement Engineering Products	Rev. 7
71111.21N.03	Procedures	AD-PI-ALL-0400	Operating Experience Program	Rev. 13
71111.21N.03	Procedures	DUKE-QAPD-001 -A-	Quality Assurance Program Description Operating Fleet	Amendment 51
71111.21N.03	Procedures	FP-20243	Valve Operators	05/14/2020
71111.21N.03	Procedures	NSCD-282	Shelf Life	Rev. 6
71111.21N.03	Procedures	NSCD-284	Contract and Acceptance of Services	Rev. 15
71111.21N.03	Procedures	NSCD-285	Procurement Process	Rev. 13
71111.21N.03	Procedures	NSCD-285A	Nuclear Sourcing Purchase Order PSG	Rev. 5
71111.21N.03	Procedures	NSCD-410	Receiving	Rev. 10
71111.21N.03	Procedures	NSCG-R-010	Fraud Detection	Rev. 0
71111.21N.03	Procedures	OE 127237	Degraded equipment voltage setpoints will not ensure ESF operability	07/24/1992

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Procedures	OPT-06.1	Standby Liquid Control System Operability Test	Rev. 90
71111.21N.03	Procedures	OPT-12.2A	No. 1 Diesel Generator Monthly Load Test	Rev. 124
71111.21N.03	Work Orders	11771487 01	2-DG1-ENG: Replace Fuel Injection Pumps	08/23/2022
71111.21N.03	Work Orders	20397473 02	Unit 2A-1 Battery Removal and Replacement	04/08/2021
71111.21N.03	Work Orders	20409476 32	Reassemble Reactor Vessel and The Associated Components	02/10/2021
71111.21N.03	Work Orders	20410923 01	2-B32-F031A-MO: OPM-0504 Mechanical and Lube Inspection	03/21/2021
71111.21N.03	Work Orders	20482448 01	1-C41-F004B, Squib Valve Functional Testing	03/29/2022
71111.21N.03	Work Orders	20568184 01	1-E41-F004-MO, OPM-O504 Mech. and Lube Inspection	06/26/2023
71111.21N.03	Work Orders	20644838 01	1-E11-F004A-MO Perform OPM-MO009 RHR 1A Supp Pool Suc	07/25/2024