



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

**April 28, 2020**

Mr. Tom Ray  
Site Vice President  
Duke Energy Carolinas, LLC  
12700 Hagers Ferry Road  
Huntersville, NC 28078-8985

SUBJECT: MCGUIRE NUCLEAR STATION – INTEGRATED INSPECTION REPORT  
05000369/2020001 AND 05000370/2020001

Dear Mr. Ray:

On March 31, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at McGuire Nuclear Station. On April 20, 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/**

Frank J. Ehrhardt, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

Docket Nos. 05000369 and 05000370  
License Nos. NPF-17 and NPF-9

Enclosure:  
As stated

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SUBJECT: MCGUIRE NUCLEAR STATION – INTEGRATED INSPECTION REPORT  
05000369/2020001 AND 05000370/2020001 Dated April 28, 2020

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RidsNrrPMMcGuire Resource

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ADAMS ACCESSION NUMBER: ML20119A478

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RII: DRP	RII: DRP	RII: DRP	RII: DRP	RII: DRP
NAME	A. Hutto	B. Griman	M. Schwieg	J. Worosilo	F. Ehrhardt
DATE	4/28/2020	4/28/2020	4/28/2020	4/28/2020	4/28/2020

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

Docket Numbers: 05000369 and 05000370

License Numbers: NPF-9 and NPF-17

Report Numbers: 05000369/2020001 and 05000370/2020001

Enterprise Identifier: I-2020-001-0076

Licensee: Duke Energy Carolinas, LLC

Facility: McGuire Nuclear Station

Location: Huntersville, North Carolina

Inspection Dates: January 01, 2020 to March 31, 2020

Inspectors: G. Hutto, Senior Resident Inspector  
B. Griman, Project Engineer  
B. Collins, Senior Reactor Inspector  
R. Kellner, Senior Health Physicist  
M. Schwieg, Reactor Inspector

Approved By: Frank J. Ehrhardt, Chief  
Reactor Projects Branch 1  
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 McGuire Nuclear Station, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### **List of Findings and Violations**

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

### **Additional Tracking Items**

None.

## **PLANT STATUS**

Unit 1 operated at or near 100 percent rated thermal power (RTP) for the entire inspection period.

Unit 2 began the inspection period at or near 100 percent RTP. On March 21, 2020, the unit was shutdown for a scheduled refueling outage and ended the inspection period in Mode 6.

## **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." From January 1 – March 19, 2020, 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; and observed risk significant activities when warranted. In addition, resident and regional baseline inspections were evaluated to determine if all or 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 the cases where it was determined the objectives and requirements could not be performed remotely, management elected to postpone and reschedule the inspection to a later date.

## **REACTOR SAFETY**

### 71111.01 - Adverse Weather Protection

#### Impending Severe Weather Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated the adequacy of the overall preparations to protect risk-significant systems from impending severe weather (tornado warning), on February 7, 2020.

### 71111.04 - Equipment Alignment

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

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

- (1) Unit 1 "A" train containment spray system, on January 8, 2020
- (2) Unit 2 2A diesel generator, on January 28, 2020
- (3) Unit 1 diesel building ventilation system, on February 20, 2020

#### 71111.05 - Fire Protection

##### Fire Area Walkdown and Inspection Sample (IP Section 03.01) (5 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Unit 1 cable spreading room, on January 9, 2020
- (2) Unit 2 component cooling (KC) pumps and KC heat exchange area, on January 9, 2020
- (3) 1A 4160 essential switchgear room, on January 9, 2020
- (4) Unit 1 ETB switchgear room, on March 30, 2020
- (5) Unit 2 spent fuel pool cooling area, on March 30, 2020

#### 71111.08P - Inservice Inspection Activities (PWR)

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

The inspectors evaluated pressurized water reactor non-destructive testing by reviewing the following examinations from March 23 - 27, 2020:

- (1) 03.01.a - Nondestructive Examination and Welding Activities.
  1. Ultrasonic Examination (UT)
    - a. 3" reactor coolant system tee-to-pipe weld (2NC2FW49-18), ASME Class 1 (reviewed)
    - b. 6" service water system pipe-to-pipe weld (RN2F1495), ASME Class 3 (weld sample; reviewed)
    - c. reactor vessel head penetration #35 weld, ASME Class 1 (reviewed)
  2. Liquid Penetrant Examination (PT)
    - a. 6" service water system pipe-to-pipe weld (RN2F1495), ASME Class 3 (weld sample; reviewed)
  3. Radiographic Testing (RT)
    - a. 6" service water system pipe-to-pipe weld (RN2F1495), ASME Class 3 (weld sample; reviewed)

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

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

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

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

- (1) The inspectors observed and evaluated licensed operator performance in the control room during Unit 2 shutdown for a refueling outage on March 21, 2020.

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

- (1) The inspectors observed and evaluated active simulator exam ASE-17, which involved a loss of spent fuel pool cooling, followed by an inadvertent start of the turbine driven auxiliary feedwater pump, and a large break loss of cooling water accident, on February 12, 2020.

#### 71111.12 - Maintenance Effectiveness

##### Maintenance Effectiveness (IP Section 03.01) (2 Samples)

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

- (1) Nuclear Condition Report (NCR) 2312581, E instrument air compressor tripped approximately 24 seconds after start
- (2) McGuire Nuclear Station Maintenance Rule (a)(3) Assessment (August 1, 2019)

#### 71111.13 - Maintenance Risk Assessments and Emergent Work Control

##### Risk Assessment and Management Sample (IP Section 03.01) (5 Samples)

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

- (1) Equipment protection plan for the 1B charging pump out of service (OOS) for shaft alignment, on January 6, 2020
- (2) Equipment protection plan for the 2B containment spray (NS) pump OOS for motor electrical preventive maintenance (PM), on January 6, 2020
- (3) Elevated risk plan for 2A diesel generator maintenance activities, on January 20, 2020
- (4) Equipment protection plan for the E instrument air compressor OOS due to a starter failure, on January 27, 2020
- (5) Elevated risk plan for 1B diesel generator maintenance activities, on February 12, 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) NCR 2311723, Red power cable is loose in the connector for 2RN-69A, on January 22, 2020

- (2) NCR 2314944, Standby nuclear service water pond temperature instrument failed, on February 19, 2020
- (3) NCR 2317410, Failed Unit 2 pressurizer heater, on February 24, 2020
- (4) NCR 2316299, Emergency diesel generator fuel pump - rust found in pump removed from 1B cylinder 3R, on March 3, 2020

#### 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 modification:

- (1) Engineering Change (EC) 411099, "Add Instrument Manifold to U1 CA Pump Suction Valve Auto-Swap Pressure"

#### 71111.19 - Post-Maintenance Testing

##### Post-Maintenance Test Sample (IP Section 03.01) (4 Samples)

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

- (1) PT/1/A/4350/002 B, "Diesel Generator 1B Operability Test," following fluid check, on January 7, 2020
- (2) PT/1/A/4208/001 B, "1B NS Pump Performance Test," following motor electrical PMs, on January 9, 2020
- (3) PT/2/A/4350/002 A, "Diesel Generator 2A Operability Test," following hot web deflection measurements, on January 21, 2020
- (4) PT/1/A/4350/002 B, "Diesel Generator 1B Operability Test," following fuel tank cleaning and inspections, on February 13, 2020

#### 71111.20 - Refueling and Other Outage Activities

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

- (1) The inspectors evaluated refueling outage M2R26 activities from March 20, 2020 to March 31, 2020.

#### 71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

##### Surveillance Tests (other) (IP Section 03.01) (4 Samples)

- (1) PT/1/A/4350/002 A, "Diesel Generator 1A Operability Test," on January 29, 2020
- (2) PT/2/A/4252/001 A, "2A CA Pump Performance Test," on January 31, 2020.
- (3) PT/2/A/4600/003 B, "Daily Surveillance Items," on March 5, 2020
- (4) PT/2/A/4206/015 A, "2A Safety Injection Pump Head Curve Performance Test and Acceptance Testing of Various NI Check Valves," on March 23, 2020



Inservice Testing (IP Section 03.01) (1 Sample)

- (1) PT/2/A/4208/001 B, "2B NS Pump Performance Test," on January 8, 2020

**RADIATION SAFETY**

71124.05 - Radiation Monitoring Instrumentation

Calibration and Testing Program (IP Section 03.02) (20 Samples)

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

- (1) Canberra Model ARGOS-5PB, S/N 1112-210, EnRad ID#: 08002, 08/14/2018 and 08/12/2019
- (2) Canberra Model ARGOS-5PBZ, S/N 1112, EnRad ID#: 03813, 08/30/2018 and 02/13/2020
- (3) Canberra Model CRONOS-4 Small Article Monitor, S/N 1411-236-CR0400G, EnRad ID#: 12602, 06/18/2018 and 06/10/2019
- (4) Canberra Model CRONOS-4 Small Article Monitor, S/N 1411-239-CR0400G, EnRad ID#: 12754, 06/19/2018 and 06/10/2019
- (5) Canberra Model CRONOS-4 Small Article Monitor, S/N 1411-235, EnRad ID#: 12799, 08/30/2018 and 02/13/2020
- (6) Canberra Model GEM-5 Personnel Contamination Monitor, S/N 1905-106, EnRad ID#: 13289, 08/06/2019
- (7) Canberra Model GEM-5 Personnel Contamination Monitor, S/N 0605-051, EnRad ID#: 12352, 08/30/2018, 10/24/2018, and 10/23/2019
- (8) Canberra Model GEM-5 Personnel Contamination Monitor, S/N 0511-024, EnRad ID#: 12354, 04/24/2018, 10/25/2018, and 10/23/2019
- (9) Canberra Model iCAM Continuous Air Monitor, S/N 5661, EnRad ID#: 13201, 12/18/2018, 01/08/2020 and 02/24/2020
- (10) Ludlum Model 3 Frisker, S/N 235498, EnRad ID#: 02470, 08/17/2018, 10/16/2019 and 02/10/2020
- (11) Ludlum Model 3 Frisker, S/N 320494, EnRad ID#: 12879, 07/31/2019 and 02/10/2020
- (12) Ludlum Model 177 Frisker, S/N 312609, EnRad ID#: 13101, 09/28/2018, and 11/05/2019
- (13) Ludlum Model 177 Frisker, S/N 312622, EnRad ID#: 13105, 09/28/2018 and 11/05/2019
- (14) Ludlum Model 3030 Smear counter, S/N 323015, EnRad ID#: 07945, 09/21/2017 and 09/19/2019
- (15) Ludlum Model 9-3 Ion Chamber Dose Rate Meter, S/N 279891, EnRad ID#: 10235, 12/18/2017, 9/21/2018, and 07/22/2019
- (16) Mirion Model AMP-100 Underwater GM Probe, Serial Number (S/N) 5011-004, EnRad ID#: 13161, 11/12/2018 and 01/03/2020
- (17) Mirion Model AMP-100 Underwater GM Probe, Serial Number (S/N) 5004-049, EnRad ID#: 01756, 09/18/2018 and 01/03/2020
- (18) Mirion Model TelePole Telescoping GM Meter, S/N 6613-134, EnRad ID#: 12223, 02/08/2018 and 07/15/2019
- (19) Mirion Model TelePole Telescoping GM Meter, S/N 6613-1115, EnRad ID#: 12230, 09/18/2018 and 11/28/2018

- (20) Thermo-Eberline Model SAM-12 Small Article Monitor, S/N 169, EnRad ID#: 03606, 08/14/2018, 10/25/2018, and 10/23/2019

Effluent Monitoring Calibration and Testing Program Sample (IP Sample 03.03) (5 Samples)

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

- (1) U-1 Containment High Range Radiation Monitor (CHRRM), 1EMF-51A, Work Order (WO) 20128618-01, 10/8/2017 and WO 20258151-01, 04/5/2019
- (2) U-1 Containment High Range Radiation Monitor (CHRRM), 1EMF-51B, WO 20128648-01, 10/3/2017 and WO 20258016-01, 04/5/2019
- (3) Main Control Room Radiation Monitor, 1EMF-12, WO 02042783-01, 09/04/2013 and WO 20315513-01, 09/03/2019
- (4) Liquid Radioactive Waste Radiation Monitor, 0EMF-49L, WO 20101497-01, 08/17/2017 and WO 20309402-01, 08/02/2019
- (5) Unit Vent Hi Hi Range Radiation Monitor, 1EMF-36HH, WO 01928624-01, 08/24/2011 and WO 02141103-01, 05/06/201

**OTHER ACTIVITIES – BASELINE**

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

IE01: Unplanned Scrams per 7000 Critical Hours Sample (IP Section 02.01) (2 Samples)

- (1) Unit 1 (January 1, 2019 - December 31, 2019)
- (2) Unit 2 (January 1, 2019 - December 31, 2019)

IE03: Unplanned Power Changes per 7000 Critical Hours Sample (IP Section 02.02) (2 Samples)

- (1) Unit 1 (January 1, 2019 - December 31, 2019)
- (2) Unit 2 (January 1, 2019 - December 31, 2019)

IE04: Unplanned Scrams with Complications (USwC) Sample (IP Section 02.03) (2 Samples)

- (1) Unit 1 (January 1, 2019 - December 31, 2019)
- (2) Unit 2 (January 1, 2019 - December 31, 2019)

71152 - Problem Identification and Resolution

Annual Follow-up of Selected Issues (IP Section 02.03) (1 Sample)

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

- (1) 10CFR21.21(b) Notification of Licensee to Perform Defect Determination Related to Various Eaton Relays (AR 2295456)

## **INSPECTION RESULTS**

No findings were identified.

## **EXIT MEETINGS AND DEBRIEFS**

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

- On April 20, 2020, the inspectors presented the integrated inspection results to Tom Ray and other members of the licensee staff.
- On March 27, 2020, the inspectors presented the ISI Exit Meeting inspection results to Tom Ray, Site Vice President and other members of the licensee staff.
- On March 31, 2020, the inspectors presented the RP Radiation Monitoring Instrumentation Inspection inspection results to Tom Ray, Site VP and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04	Drawings	MC-1579-01.00	Diesel Building Ventilation System (Unit 1)	
		MCFD-1563-01.00	Flow Diagram of Containment Spray System (Unit 1)	
	Procedures	OP/2/A/6350/002	Diesel Generator	
71111.05	Fire Plans	CSD-MNS-PFP-AB-0750-001	Units 1 & 2 Auxiliary Building Elevation: 750	
		MFSD-009	1ETB - 733"	
		MFSD-015	1ETA - 750'	
		MFSD-019	Unit 1 - 750' aux cable room	
	Miscellaneous	MCS-1465.00-00-0008	Design Basis for Fire Protection	
	Procedures	AD-EG-ALL-1520	Transient Combustible Control	
71111.08P	Calibration Records		FlawTech Material Test Report: UT Calibration Block Specimens	2016.10.15
			Ray-Check Mfg. Inc. Certificate of Compliance: UT Calibration Blocks (SN 16-4207 through -4226)	10/21/16
		654414	Standards Laboratory Instrument Certification: Thermometer, Infrared (ID MCNDE40127)	8/14/2018
	Corrective Action Documents	02236874	Non-Active, Dry Boron Found During M2R25 Containment Walkdown	10/11/2018
		02321617	M2R26 Mode 3 Walkdown Issues (Shutdown)	3/21/2020
	Engineering Evaluations		McGuire Unit 2 Steam Generator M2R26 Skipped Inspection Cycle Outage Review	0
	Miscellaneous		Duke Energy Certificate of Method Qualification: PT II-N (Sanders)	8/14/2018
			Duke Energy Visual Acuity Record (Sanders)	9-14-17
			Magnaflux Certification: Ultragel II Couplant	04/14/2016
			Magnaflux Certificate of Certification: Spotcheck Developer SKD-S2	08/19/2015
			Magnaflux Certification: Spotcheck Cleaner SKC-S	08/31/2016
			Sonic Systems International, Inc. Certificate of Qualification: UT II-PDI (Regan)	8/8/2018
			Sonic Systems International, Inc. Vision Acuity	09/05/2018

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Record (Regan)	
			Duke Energy Certificate of Method Qualification: RT II-N (Sherrill)	7/30/2018
			Duke Energy Visual Acuity Record (Sherrill)	4-5-18
		DEM_RN2F1495_20180912	Duke Energy Radiographic Technique Record (RN2F1495)	9/12/2018
	NDE Reports	180-9308218-000	McGuire, Unit 2 2R26 Reactor Vessel Closure Head (RVCH) Penetration Ultrasonic Examination	000
		30023	Duke Energy Liquid Penetration Examination Report (RN2F1495)	9/6/2018
		BOP-UT-18-002	Duke Energy UT Calibration/Examination Record (RN2F1495)	9/15/2018
	Procedures	AD-EG-PWR-1611	Boric Acid Corrosion Control Program - Implementation	2
		AD-MN-ALL-0006	Fluid Leak Management	2
		MP/0/A/7700/080	Inspection, Assessment and Cleanup of Boric Acid on Plant Materials	023
		NDE-NE-ALL-4101	Liquid Penetrant Examination	001
		NDE-NE-ALL-5101	Radiographic Examination	000
		NDE-NE-ALL-6102	Utilization of PDI-UT-2 Generic Procedure for the Ultrasonic Examination of Austenitic Pipe Welds	002
		NDEMAN-NDE-640	NDE Procedures Manual – Volume 4 – Ultrasonic Examination Using Longitudinal Wave and Shear Wave, Straight Beam Techniques	5
		PD-EG-PWR-1611	Boric Acid Corrosion Control Program	1
		PT/0/A/4150/046	Containment Walkdown	005
71111.11Q	Miscellaneous	Active Simulator Exam ASE-17		
71111.12	Procedures	AD-EG-ALL-1209	System, Component and Program Health Reports and Programs	
		AD-EG-ALL-1210	Maintenance Rule Program	
	Self-Assessments	2291978	MNS Maintenance Rule (a)(3) Assessment	
71111.13	Procedures	AD-OP-ALL-0201	Protected Equipment	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.15	Procedures	AD-OP-ALL-0204	Plant Status Control	
		AD-WC-ALL-0204	On-line Risk Management Process	
		AD-EG-ALL-1211	System Performance Monitoring and Trending	
		AD-OP-ALL-0102	Operability Decision Making	
71111.18	Engineering Changes	AD-OP-ALL-0105	Operability Determinations	
	Procedures	411099	Add Instrument Manifold to U1 CA Pump Suction Valve Auto-Swap Pressure	10/21/2019
71111.19	Procedures	IP/0/A/3002/009		
		AD-EG-ALL-1155	Post Modification Testing	
		PT/1/A/4208/001 B	1B NS Pump Performance Test	
		PT/1/A/4350/002 B	Diesel Generator 1B Operability Test	
	Work Orders	PT/2/A/4350/002 A	Diesel Generator 2A Operability Test	
71111.20	Miscellaneous	20357073	1B DG Fluid Check	
	Procedures	M2R26	McGuire M2R26 Refueling Outage Schedule	
		AD-WC-ALL-0430	Outage Risk Review	
		OP/2/A/6100/003	Controlling Procedure for Unit Operation	
		OP/2/A/6100/SD-16	Preparing for NC System Drain	
		OP/2/A/6100/SD-20	Draining the NC System Level	
	Self-Assessments	AR 2314741	M2R26 Outage Risk Review	
71111.22	Procedures	AD-EG-ALL-1202	Preventive Maintenance and Surveillance Testing Administration	
		AD-EG-ALL-1720	In-service Testing (IST) Program Implementation	
		PT/1/A/4350/002 A	Diesel Generator 1A Operability Test	
		PT/2/A/4206/015 A	2A Safety Injection Pump Head Curve Performance Test and Acceptance Testing of Various NI Check Valves	
		PT/2/A/4208/001 B	2B NS Pump Performance Test	
		PT/2/A/4252/001 A	2A CA Pump Performance Test	
		PT/2/A/4600/003 B	Daily Surveillance Items	
71124.05 April 2020	Calibration Records	Serial Number 8241	Calibration Certificate, J.L. Shepherd & Associates Model 89-400 Calibrator S/N 8241	08/19/1991
		Serial Number 006	General Atomics Calibration Report, RT-11 High	11/08/1981

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Range Radiation Monitor Calibrator, Serial No. 006	
		Serial Number 59364-48	Analytics Certificate of Calibration, Cs-137 Source S/N 59364-48	03/24/2000
		Serial Number 59365-48	Analytics Certificate of Calibration, Cs-137 Source S/N 59365-48	03/24/2000
		Serial Number 59366-48	Analytics Certificate of Calibration, Ba-133 Source S/N 59366-48	03/24/2000
		Serial Number 59367A-48	Analytics Certificate of Calibration, Ba-133 Source S/N 59367A-48	03/24/2000
		Serial Number 8241	Verification of J.L. Shepherd & Associates Model 89-400 Calibrator S/N 8241, ENRAD # 01564, Calibration Certificate	01/08/2020
		Serial Number 8245	Calibration Certificate, J.L. Shepherd & Associates Model 89-400 Calibrator, S/N 8245	04/10/2015
	Corrective Action Documents		AR02235596, AR02242573, AR02249030, AR02252971, AR02257905, AR02261752, AR02269257, AR02289710, AR02298290, AR02306819, AR02307016, and AR02315076	Various
	Corrective Action Documents Resulting from Inspection	AR 02322403	AR02322403, 2020 RP Baseline Inspection, lost documentation [RT-11 Source S/N 006]	03/26/20
	Miscellaneous	CSD-RP-ALL-4004	McGuire Passive Whole Body Sensitivity Study	2
		CSD-RP-ALL-7009	Source Check Frequencies for Instruments Used for Contamination Monitoring at RCA and Restricted Area Exit Points	5
		CSD-RP-ALL-7013	Optimizing the Source Check Frequency of Portable Survey Instruments	1
		CSD-RP-ALL-7016	Radon Progeny Rejection	0
	Self-Assessments	02275484-5	Self-Assessment Number: 02275484-5, Fleet Radiation Protection (RP) Instrument Program	06/20/2019
71151	Procedures	AD-LS-ALL-0004	NRC Performance Indicators and Monthly Operating Report	
71152	Corrective Action	22295456		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Engineering Evaluations	2299984		