



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

July 13, 2026

Eric S. Carr
Chief Nuclear Officer and President
Nuclear Operations and Contracted Energy
Dominion Energy
Innsbrook Technical Center
5000 Dominion Blvd., Floor: IN-3SE
Glen Allen, VA 23060-6711

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 – INTEGRATED
INSPECTION REPORT 05000338/2026002 AND 05000339/2026002

Dear Eric S. Carr:

On June 30, 2026, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at North Anna Power Station, Units 1 and 2. On July 2, 2026, the NRC inspectors discussed the results of this inspection with James Jenkins, Site Vice President, and other members of your staff. The results of this inspection are documented in the enclosed report.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "SS", enclosed in a simple oval.

Signed by Steven Smith on 07/13/26

Steven P. Smith, Chief
Reactor Projects Branch C
R2 Division of Reactor Projects

Docket Nos. 05000338 and 05000339
License Nos. NPF-04 and NPF-07

Enclosure:
As stated

cc w/ encl: GovDelivery Subscriber

U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000338 and 05000339

License Numbers: NPF-04 and NPF-07

Report Numbers: 05000338/2026002 and 05000339/2026002

Enterprise Identifier: I-2026-002-0036

Licensee: Dominion Energy

Facility: North Anna Power Station, Units 1 and 2

Location: Mineral, Virginia

Inspection Dates: April 01, 2026 to June 30, 2026

Inspectors: A. Ruh, Senior Resident Inspector
D. Turpin, Resident Inspector

Approved By: Steven P. Smith, Chief
Reactor Projects Branch C
R2 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 North Anna Power Station, Units 1 and 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

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

Additional Tracking Items

Type	Issue Number	Title	Report Section	Status
LER	05000338/2025-002-01	LER 2025-002-01 for North Anna Power Station, Unit 1, Automatic Reactor Trip due to PRNI High Negative Rate	71153	Closed
LER	05000338/2025-002-00	LER 2025-002-00 for North Anna Power Station, Unit 1 Automatic Reactor Trip due to PRNI High Negative Rate	71153	Closed

PLANT STATUS

Unit 1 operated at or near rated thermal power for the entire inspection period.

Unit 2 began the inspection period at or near rated thermal power. On May 11, 2026, the unit was down powered to 95 percent to perform repairs for a steam leak from a feedwater heater gasket connection. The unit was returned to rated thermal power on May 17, 2026.

INSPECTION SCOPES

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

REACTOR SAFETY

71111.01 - Adverse Weather Protection

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

- (1) The inspectors evaluated readiness for seasonal extreme weather conditions prior to the onset of seasonal hot temperatures for the following systems: service water, emergency diesel generators (EDGs), and the turbine lube oil cooling systems, on June 29, 2026

71111.04 - Equipment Alignment

Partial Walkdown (IP Section 03.01) (2 Samples)

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

- (1) Unit 2, 'J' EDG during unplanned maintenance and testing of the Unit 2, 'H' EDG, on April 3, 2026
- (2) Unit 1 and 2 turbine driven auxiliary feedwater pump governors on May 11 and 26, 2026

71111.05 - Fire Protection

Fire Area Walkdown and Inspection (IP Section 03.01) (4 Samples)

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

- (1) Fire areas 9A-1 and 9A-2, Unit 1 and Unit 2, 'H' EDG rooms, on April 2 and 5, 2026
- (2) Fire area 11, auxiliary building 244' and 259' elevations, on April 27, 2026
- (3) Fire areas 6-1, 7B-1, and 7D-1, Unit 1, emergency switchgear room, air conditioning room, and battery rooms 1-II and 1-IV, on June 24, 2026
- (4) Fire area 3-1, Unit 1 cable vault and tunnel, on June 30, 2026

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management (IP Section 03.01) (3 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) Unit 2, plant risk during emergent work on inoperable 2H EDG exhaust manifold on April 1, 2026
- (2) Unit 2, plant risk during emergent work for semi-vital bus 1B UPS failure, Unit 2 'J' EDG alarm module failure, offsite power circuit inoperability, and reactor coolant system chemistry challenges on April 15-17, 2026
- (3) Plant risk during fuel building bridge crane replacement and 'B' reserve station service transformer out of service on May 12-20, 2026

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (7 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) Condition report (CR)1319752, Partial 1-PT-304FW unable to be completed
- (2) CR1319112, Unit 2 'H' emergency diesel generator coolant leak
- (3) CR1321495, Service water piping replacement not performed per ASME section XI repair and replacement plan 2026-002
- (4) CR1323008, Oil foaming identified on 1-CH-P-1A
- (5) CR1317147, Reserve station service transformer cable outer jacket cracked/degraded exposing copper shield on unit 2 mechanical equipment room roof
- (6) CR1321761, Unit 1 inadequate core cooling monitor channels exhibited greater than expected deviation in subcooling during channel check
- (7) CR1327283, Unit 2 containment sump in-leakage increase and impact on reactor coolant leak detection system

71111.24 - Testing and Maintenance of Equipment Important to Risk

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

Post-Maintenance Testing (PMT) (IP Section 03.01) (2 Samples)

- (1) Unit 2, 'H' EDG PMT following inoperability due to emergent maintenance under work order (WO)59203480209, on April 20, 2026
- (2) Unit 2, 4A main control room chiller service water piping PMT following replacement under WO59203380664, 50203369685, 59203374506, 59203374508, and 59203374507, on May 18, 2026

Surveillance Testing (IP Section 03.01) (6 Samples)

- (1) 1-PT-77.11A.1, Control Room Chiller 1-HV-E-4A IST Comprehensive Pump and Valve Test, on April 9, 2026
- (2) 1-PT-32.1.10, Feedwater Control MSS (Median Signal Select) Card Functional Test, on April 21, 2026
- (3) 1-PT-71.3Q OTO, Unit 1 'B' Auxiliary Feedwater Pump Test, on April 23, 2026
- (4) 2-PT-57.1A, Emergency Core Cooling Subsystem - Low Head Safety Injection Pump (2-SI-P-2A), on April 29, 2026
- (5) 2-PT-83.5H, '2H' Bus UV/DV Operational Test, on April 30, 2026
- (6) 2-PT-71.14 and 2-PT-71.15, Loss of Offsite Power - Train A and B Operational Test for Auxiliary Feedwater Pumps, on June 17, 2026

Inservice Testing (IST) (IP Section 03.01) (1 Sample)

- (1) 1-PT-14.1, Charging Pump 1-CH-P-1A, on April 7, 2026

71114.06 - Drill Evaluation

Additional Drill and/or Training Evolution (1 Sample)

The inspectors evaluated:

- (1) Emergency preparedness drill of "B" team on May 5, 2026

OTHER ACTIVITIES – BASELINE

71152A - Annual Follow-up Problem Identification and Resolution

Annual Follow-up of Selected Issues (IP Section 03.03) (2 Samples)

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

- (1) CR1319180, Unit 2, 'H' EDG inoperability due to exhaust piping fire, on April 20, 2026
- (2) CR1304672, Unit 1 automatic reactor trip due to power range nuclear instrument high negative rate trip, on June 8, 2026

71152S - Semiannual Trend Problem Identification and Resolution

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

- (1) Inspectors reviewed corrective action program documentation associated with risk significant structures, systems and components for potential adverse trends that

might be indicative of a more significant safety issue associated with the licensee's ability to identify and evaluate issues subject to operability determinations.

71153 - Follow-Up of Events and Notices of Enforcement Discretion

Event Report (IP Section 03.02) (1 Sample)

The inspectors evaluated the following licensee event reports (LERs):

- (1) LER 2025-002-00, -01, North Anna Power Station, Unit 1, Automatic Reactor Trip due to PRNI High Negative Rate (ADAMS Accession No. ML26057A342, ML25351A290)

The inspectors determined that the cause of the condition described in the LER and its supplement was not reasonably within the licensee's ability to foresee and correct, and therefore was not reasonably preventable. No performance deficiency nor violation of NRC requirements was identified. This LER is Closed.

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On July 2, 2026, the inspectors presented the integrated inspection results to James Jenkins, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.01	Calculations	ET-N-06-0043	Evaluation of Emergency Diesel Generator Ambient Room Temperatures	1
		ME-0105	EDG Room High Temperature Operation Study	0
	Procedures	0-AP-40	Abnormal Level in the Lake Anna Reservoir	20
		0-GOP-4.1	Hot Weather Operations	6/22/2026
71111.04	Procedures	2-OP-6.6A	Emergency Generator Pre-Operational Check for 2H and 2J Diesel	33
		2-PT-82J	2J Emergency Diesel Generator Slow Start Test	01/14/2026
71111.05	Drawings	11715-FAR-205	Equipment Location – Appendix “R” Auxiliary Building Plan Elev 259’-6” North Anna Power Station Unit 1	04/27/2026
		11715-FAR-206	Equipment Location – Appendix “R” Service Building Plan-EL. 254’-0” North Anna Power Station Unit 1	18
		11715-FE-57J	Conduit Plan Inst Comp, Alarm & Rad Mon Aux Bldg EL 244’-6” North Anna Power Station – Unit 1	20
		11715-FE-57K	Conduit Plan Inst Computer & Alarm Aux Bldg EL 244’-6” SH-2 North Anna Power Station – Unit 1	16
		11715-FE-57L	Conduit Plan Inst Computer & Alarm Aux Bldg EL 244’-6” SH-3 North Anna Power Station – Unit 1	15
		11715-FE-57M	Conduit Plan Inst Computer & Alarm Aux Bldg EL 244’-6”	14
		11715-FE-57N	Conduit Plan Inst Computer & Alarm Aux Build EL 259’-6” North Anna Power Station – Units 1	17
		11715-FE-57R	Conduit Plan Inst Computer & Alarm Aux Build EL 259’-6” North Anna Power Station – Units 1 & 2	19
		13075-FE-12BB	Wiring Diagram Smoke Detection Systems Zone 9, 10, 13, 14, & 30 North Anna Power Station – Unit 1	8
	Fire Plans	1-FS-AB-1	Auxiliary Building (All Elevations) Fire Fighting Strategy Safe Shutdown Equipment	7
		1-FS-ESG-BR-1	Firefighting Strategy for Battery Rooms 1-2 and 1-4	5
		1-FS-S-2	Fire Fighting Preplan for Cable Vault and Tunnel and 280’ Rod Drive Unit 1 Safe Shutdown Equipment	14
		1-FS-S-3	Unit 1 Emergency Switchgear Instrument Rack and Air Conditioning Rooms Service Building ELEV. 254 FT (S-54)	16

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures		Safe Shutdown Equipment	
		CM-AA-FPA-100	Fire Protection/Appendix R (Fire Safe Shutdown) Program	22
		CM-AA-FPA-101	Control of Combustible and Flammable Materials	17
71111.13	Engineering Evaluations	PR174299	New Fuel Building Bridge Crane Rigging and Lift Plan	2
71111.15	Calculations	EE-0137	Reactor Coolant System Wide Range Pressure Uncertainty	6
		PE-0013	North Anna Regulatory Guide 1.97 Post Accident Monitoring	19
		SE-97-153	ICCM Subcooling Margin - Train A vs Train B North Anna Unit 1	0
		SM-781	Calculation of North Anna RCS Subcooling Uncertainties	0
	Corrective Action Documents	1101003, 1313324, 1295941, 1286606, 1250677		
	Engineering Evaluations	ETE-NA-2016-0049	Emergency Diesel Generator Mission Time and Evaluated Leak Rates	1
		ETE-NA-2017-0015	Acceptability of Tape Repairs on Non-Safety Medium Voltage Shielded Cable Jackets	3
		ETE-SU-2012-1015	Oil Foaming in the Charging Pump Sump	0
	Miscellaneous	NAS-0155	Emergency Diesel Generator Sets	3
	Procedures	ER-AA-RRM-100	ASME Section XI Repair/Replacement Program Fleet Implementing Requirements	10
	Work Orders	59203374508	U2 MCR 4A Chiller Piping Replacement	04/01/2026
71111.24	Procedures	CM-AA-NWP-10	Nuclear Welding Program	4
		CM-AA-NWP-101	Control of Welding	2
		CM-AA-NWP-102	Control of Welding Materials	2
		CO-PROC-000-CWM-V2-FMS-001	General Welding and Brazing Filler Material Specification	6
		ER-AA-RRM-100	ASME Section XI Repair/Replacement Program Fleet Implementation Requirements	10
		VPAP-1102	Periodic Testing	14

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71152S	Corrective Action Documents	1312803, 1326720, 1326129, 1325366, 1314401, 1302347, 1302055, 1296757, 1310257, 1309052, 1288984, 1286863, 1282891, 1278318, 1241279, 1316672, 1300095, 1284783, 1275919, 1262283, 1261647, 1248170, 1239420			
		Miscellaneous	Fleet Training Module: OP-AA-102	OP-AA-102: Operability Determination	-
		Procedures	OP-AA-100	Conduct of Operations	57
			OP-AA-100-1001	Site Instruction: Performing Operability Reviews of Condition Reports	7
			OP-AA-102	Operability Determination	18
			OP-AA-102-1001	Development of Technical Basis to Support Operability Determinations	16

Eric S. Carr

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 – INTEGRATED INSPECTION REPORT 05000338/2026002 AND
05000339/2026002 DATED: July 13, 2026

DISTRIBUTION:

J Lara