



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

January 26, 2026

Howard Markle
Vice President and General Manager
Nuclear Operation Group, Inc.
BWXT Nuclear Operations Group, Inc.
P.O. Box 785
Lynchburg, VA 24505-0785

SUBJECT: BWXT NUCLEAR OPERATION GROUP, INC. – INTEGRATED INSPECTION
REPORT 07000027/2025004

Dear Howard Markle:

On December 31, 2025, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at BWXT Nuclear Operation Group, Inc. On January 22, 2026, 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 violations of more than minor significance were identified during this inspection.

Due to the temporary cessation of government operations, which commenced on October 01, 2025, the NRC began operating under its Office of Management and Budget-approved plan for operations during a lapse in appropriations. Consistent with that plan, the NRC operated at reduced staffing levels throughout the duration of the shutdown. However, the NRC continued to perform critical health and safety functions and make progress on other high-priority activities associated with the ADVANCE Act and Executive Order 14300. On November 13, 2025, following the passage of a continuing resolution, the NRC resumed normal operations. However, due to the 43-day lapse in normal operations, the NRC modified the facility's inspection plan ([ML25344A465](#)) considering inspection of partial samples, previously inspected, and deferred inspections in accordance with IMC 2600.

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 Michel, Eric
on 01/26/26

Eric C. Michel, Chief
Fuels Oversight Branch 2
Division of Fuels, Radiological Safety, and Security

Docket No. 07000027
License No. SNM-42

Enclosure:
As stated

cc w/ encl: Distribution via GovDelivery

SUBJECT: BWXT NUCLEAR OPERATION GROUP, INC. – INTEGRATED INSPECTION
REPORT 07000027/2025004 DATED JANUARY 26, 2026.

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Number: 07000027

License Number: SNM-42

Report Number: 07000027/2025004

Enterprise Identifier: I-2025-004-0034

Licensee: Nuclear Operation Group, Inc.

Facility: BWXT Nuclear Operation Group, Inc.

Location: Lynchburg, VA

Inspection Dates: October 01, 2025 to December 31, 2025

Inspectors: M. Doyle, Senior Resident Inspector

Approved By: Eric C. Michel, Chief
Fuels Oversight Branch 2
Division of Fuels, Radiological Safety, and Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at BWXT Nuclear Operation Group, Inc., in accordance with the fuel cycle facility inspection program. This is the NRC's program for overseeing the safe operation of licensed fuel cycle facilities. Refer to <https://www.nrc.gov/materials/fuel-cycle-fac.html> for more information.

List of Violations

No violations of more than minor significance were identified.

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>. Inspections were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2600, "Fuel Cycle Facility Operational Safety and Safeguards Inspection Program." 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.

SAFETY OPERATIONS

88135.02 - Plant Status

The inspectors routinely conducted walkdowns of licensee areas, observed operators, material control and accounting and security force personnel, inspected postings and licensee guidance documents, interviewed plant personnel, and discussed the results of operational and shift turnover meetings to gain insight into the status of facility activities, risk-inform the selection and implementation of the appropriate core inspection procedures, and ensure compliance with license and regulatory requirements.

Radiation Work Permit (RWP) (IP Section 03.09)

The inspectors reviewed and observed the radiation work permit (RWP) listed below to determine whether the RWP contains the information required by Chapter 4, "Radiation Safety" of the license application, the Radiation Protection Manual, and implementing procedures:

- RWP 25-0068, "Prepare for installation and install furnace equipment per SER 24-030 approved at-risk work scope," conducted on November 24, 2025

Annual Security and Emergency Preparedness Drills/Exercises (IP Section 03.10)

The inspector observed the licensee's performance during the emergency preparedness drill listed below to determine they were being implemented in accordance with 10 CFR 70.22(l)(3), chapter 8 of the license application, and the Emergency Plan. In addition, the inspector observed the licensee's graded biennial exercise conducted on October 29, 2025 to verify compliance with 10 CFR 70.32(i).

- On October 2, 2025, the inspector observed the annual evacuation drill for all employees on the first shift. The inspector performed verification checks for the personnel accountability system to verify compliance with 10 CFR 70.24(a)(3).
- On October 29, 2025, the inspector observed a biennial emergency planning exercise (EPX). The exercise simulated severe weather impacting the site causing personnel injuries, and chemical spills. The inspector observed the EPX from the emergency operations center (EOC) and in the plant at the location of the simulated emergency. The BWXT emergency team and the

Concord fire department both responded to the simulated emergency. They rendered aid to injured personnel, responded to uncontrolled chemical releases to the environment, decontaminated plant personnel, and transported injured people to local hospitals. The inspector attended the hotwash conducted immediately after the conclusion of the EPX.

88135.04 - Resident Inspection Program Operational Safety

The inspectors evaluated whether the material condition and as-found configuration of selected site structures, systems, and components, documentation, personnel, and items relied on for safety (IROFS) to verify compliance with 10 CFR Part 70, the license, the safety analysis report (SAR) and/or license application, and licensee policies and procedures; and determine whether they are appropriate, available, and reliable to protect worker and public safety during normal, off-normal, and accident conditions.

Operations Safety Walkdown (IP Section 03.01)

The inspectors evaluated the operational safety of the systems and subsystems of the following areas:

SAR 15.06, "Low Level Dissolution Process in Uranium Recovery"

- The inspector performed a walkdown of the low-level dissolvers in Uranium Recovery
- Verification of IROFS and postings

SAR 15.34, "Filler Operations"

- Performed a walkdown with a plant engineer of the filler manufacturing production lines
- Verification of IROFS and postings
- Observed filler manufacturing operations

88135.05 - Resident Inspection Program Fire Protection (Annual/Quarterly)

The inspectors evaluated the operational status and material condition of fire protection systems, structures, and components (SSCs) to verify compliance with the fire protection program as described in Chapter 7, "Fire Safety" of the license application, and National Fire Protection Association (NFPA) 801, "Standard for Fire Protection for Facilities Handling Radioactive Materials," as required. The inspectors evaluated onsite fire brigade training and drill performance to verify compliance with standard/procedure/license application chapter including drill/training requirements (i.e., NFPA 600, "Standard on Industrial Fire Brigades").

Fire Area Walkdown (IP Section 03.01)

The inspectors walked down and evaluated the fire area listed below:

- South End of Bays 6A, and 7A on December 23, 2025

Fire Brigade Drill Performance Sample (IP Section 03.02)

The inspectors evaluated the fire brigade fire training described below:

- The inspector observed a live fire training exercise conducted on October 4, 2025. The live-fire exercise included the use of self-contained breathing apparatuses (SCBAs), the use of forcible entry tools (i.e., Halligan bar and flat-head axe) for gaining facility access, conducting search and rescue operations, and fighting structural fires.

88135.19 - Post Maintenance Testing

The inspectors evaluated post-maintenance test activities to verify compliance with license application Chapter 11, "Management Measures," and test procedures and/or work order (WO) instructions to confirm functional capability of the IROFS and/or safety control(s) following maintenance.

Post-Maintenance Testing (IP Section 03.01)

The inspectors reviewed the two post-maintenance tests listed below. Tests were either observed directly, or test results were reviewed.

- WO20374148, SC inline alarm #4 monthly test
- WO20399223, raffinate column level sensor IROFS not working

88135.22 - Surveillance Testing

The inspectors evaluated IROFS and safety controls that required periodic surveillance and/or calibration tests to ensure they were available and reliable to perform their function when needed, to comply with license application Chapter 11, "Management Measures," and the performance requirements of 10 CFR 70.61 and 70.62, and to maintain their operational readiness consistent with the Integrated Safety Analysis.

Surveillance and Calibration Testing (IP Section 03.01)

The inspectors reviewed the two surveillance and/or calibration tests listed below. Tests were either observed directly or test results were reviewed.

- The inspector observed the weekly test of SAR 15.37, pickle area IROFS on November 24, 2025
- The inspector observed the quarterly test of the emergency diesel generator 014 on December 1, 2025

INSPECTION RESULTS

No issues were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On January 22, 2026, the inspector presented the integrated inspection results to Howard Markle and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
88135.02	Corrective Action Documents	CA202501433	UIR - Fire	10/05/2025
		CA202501519	IH&S - UIR	10/17/2025
		CA202501523	NCS - UIR	10/20/2025
		CA202501538	Compliance w/ Instruction	10/20/2025
		CA202501597	Lifting/Handling - Handling	10/29/2025
		CA202501634	Fire - UIR	11/11/2025
		CA202501660	Document Control	11/04/2025
		CA202501676	Personnel Injury	11/25/2025
		CA20250423	NCS - UIR	10/02/2025
		CA20250684	Product - UIR	10/31/2025
	Radiation Work Permits (RWPs)	25-0068	Prepare for installation and install of furnace equipment per SER 24-030 approved at-risk work scope	Rev. 00
88135.04	Corrective Action Documents	CA202501727	Fabrication	12/04/2025
	Procedures	M11-F-038	Pharmacy Operations	Rev. 14
		OP-0061141	Operating procedure for low level leach hood operation	Rev. 70
		OP-0061143	Operating procedure for uranium recovery scrubber operation	Rev. 37
		OP-0061144	Operating Procedure for low level storage column operation	Rev. 23
		OP-0061167	Operating procedure for spill and leak handling emergency procedure	Rev. 37
		OP-1003724	Filler manufacturing operations areas safety controls	Rev. 38
88135.05	Fire Plans	Map Section 19	Area: Bays 6A,, & 7A (south end)	12/10/2016
88135.19	Miscellaneous	N-307	Lockout/Tagout Permit	Rev. 3
	Work Orders	20374148	Inline #4 Monthly Test	10/9/2025
		20399223	Raf. transfer pump not working	10/31/2025
88135.22	Procedures	MP-P-011	Pickle Area Quality and Safety Checks	Rev.36
	Work Orders	WO20397795	Quarterly test of emergency diesel 014	12/01/2025