



MID-TERM LICENCE UPDATE

1160 Monaghan Rd.
Peterborough, Ontario Canada

FFL-3620.00/2030

The information contained in this report provides a comprehensive summary of BWXT NEC's operational performance and major activities over the preceding five-year licensing period. It further outlines anticipated activities and objectives for the forthcoming five years and is intended to inform and facilitate public engagement in advance of the mid-term licence review for the Peterborough facility (Licence No. FFL-3620.00/2030).

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1 EXECUTIVE SUMMARY

BWXT Nuclear Energy Canada (BWXT NEC) is a leading supplier of nuclear fuel and services to the Canada Deuterium Uranium (CANDU®) industry. BWXT NEC produces nuclear fuel bundles used by the CANDU fleet to generate clean electricity that powers homes, business, and the Canadian economy. BWXT NEC operates in three plant locations: Arnprior, Toronto and Peterborough, Ontario. The Peterborough facility operates under a ten-year Class IB Nuclear Fuel Facility Licence (FFL-3620.00/2030) issued by the Canadian Nuclear Safety Commission (CNSC) and effective January 1, 2021. This licence authorizes BWXT NEC to operate and modify its nuclear fuel facility to produce natural and depleted uranium dioxide (UO₂) pellets and to produce and test fuel bundles in Peterborough at 1160 Monaghan Rd. The facility is additionally authorized to receive, repair, modify and return contaminated equipment from off-site nuclear facilities.

This mid-term licence update is intended to provide a comprehensive overview of the Peterborough facility's performance during the first half of the current ten-year licence period. It also provides an outline of the outlook and planned initiatives for the remainder of the licence term. Since the beginning of the current licence period, BWXT NEC Peterborough has consistently demonstrated compliance with all regulatory requirements and has operated in a manner that protects workers, the public, and the environment.

Performance results confirm that the Peterborough facility is being operated safely and responsibly. Operations have remained stable, with safety analysis and physical design programs supporting the reliability of structures, systems, and components. Worker protection has been assured through the effective application of radiation protection and conventional health and safety programs, supported by a strong nuclear safety culture that prioritizes prevention and continuous improvement, with performance consistently well within regulatory expectations. Environmental monitoring results continue to demonstrate that emissions from the facility remain a fraction of regulatory limits and that impacts on the surrounding community are negligible.

Looking ahead, BWXT NEC is committed to continually strengthen its management system, further refine its programs, and enhance its practices across all safety and control areas. Planned initiatives include investments in equipment upgrades, continued emphasis on training and human performance, and proactive engagement with the community. In addition to maintaining a strong focus on health and safety, protecting employees, the public, and the environment, the Peterborough facility also prioritizes environmental stewardship, continually working to conserve natural resources, prevent pollution, and minimize waste, reflecting BWXT NEC's commitment to responsible and sustainable operations. These efforts help to ensure the safe, reliable, and environmentally responsible operation of the Peterborough facility for the duration of the current licence period and beyond.

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2 INTRODUCTION

The purpose of this mid-term licence update is to demonstrate that BWXT Nuclear Energy Canada (BWXT NEC) has successfully met the requirements of the *Nuclear Safety and Control Act (NSCA)*, the associated regulations, and the current Class IB Nuclear Fuel Facility Licence issued by the Canadian Nuclear Safety Commission (CNSC) on January 1, 2021, and expiring December 31, 2030. This report provides an overview of the facility's performance to date and outlines planned initiatives and priorities for the remainder of the licence term.

As part of the 2020 licence renewal, the Canadian Nuclear Safety Commission (CNSC) required BWXT NEC to provide a comprehensive mid-term update on its licensed activities at the Toronto and Peterborough facilities. This update supports ongoing regulatory oversight and public transparency during the 10-year licence term.

BWXT Nuclear Energy Canada Inc. (BWXT NEC) is a key supplier of nuclear fuel and related services for the CANDU® industry. BWXT NEC operates in three plant locations: Arnprior, Toronto and Peterborough, Ontario. Together, these sites support the safe and reliable production of nuclear fuel bundles and associated services, while maintaining compliance with Canadian regulatory requirements and international standards.

The Peterborough facility is located within a mixed residential and industrial area in central Peterborough (

Figure 1). The buildings are located on the existing General Electric (GE) plant complex. The licensed facility consists of four buildings: Building 21, 24, 26 and 28, which are leased from GE. Building 21 is a two-floor building and houses the uranium fuel bundle manufacturing operation as well as the medical target assembly on the first floor, and office personnel on the second floor. Building 24 is a one floor warehouse used to store sealed radioactive material including completed uranium fuel bundles, drums of UO₂ powder, and contaminated equipment as required. Building 26 is principally a conventional fabrication and assembly operation. It also houses manufacturing equipment and a facility for the repair of contaminated equipment. Building 28 houses the main shipping and receiving docks for Building 26 and is directly accessible through Building 26.

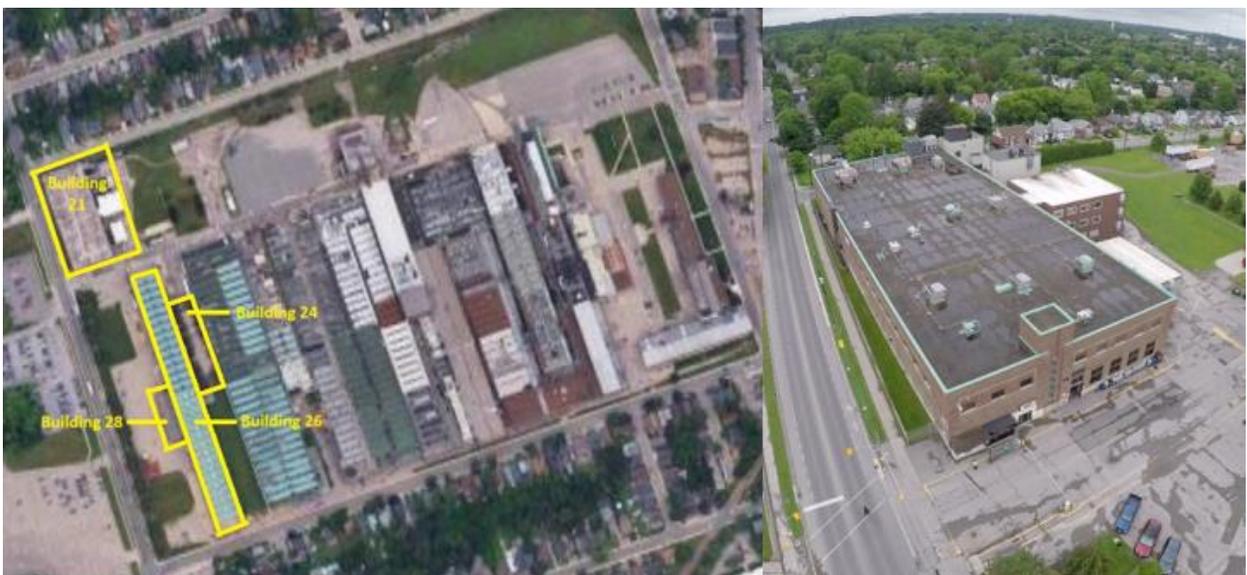


Figure 1: BWXT NEC Peterborough

2.1 Processes and Materials

Fuel manufacturing operations involve the loading of fuel pellets into Zircaloy tubes, sealing, and welding of the tubes to produce fuel elements and the assembly of the fuel elements into fuel bundles. The basic assembly process is described in Figure 2 and shows the interconnections with the other BWXT NEC plants.

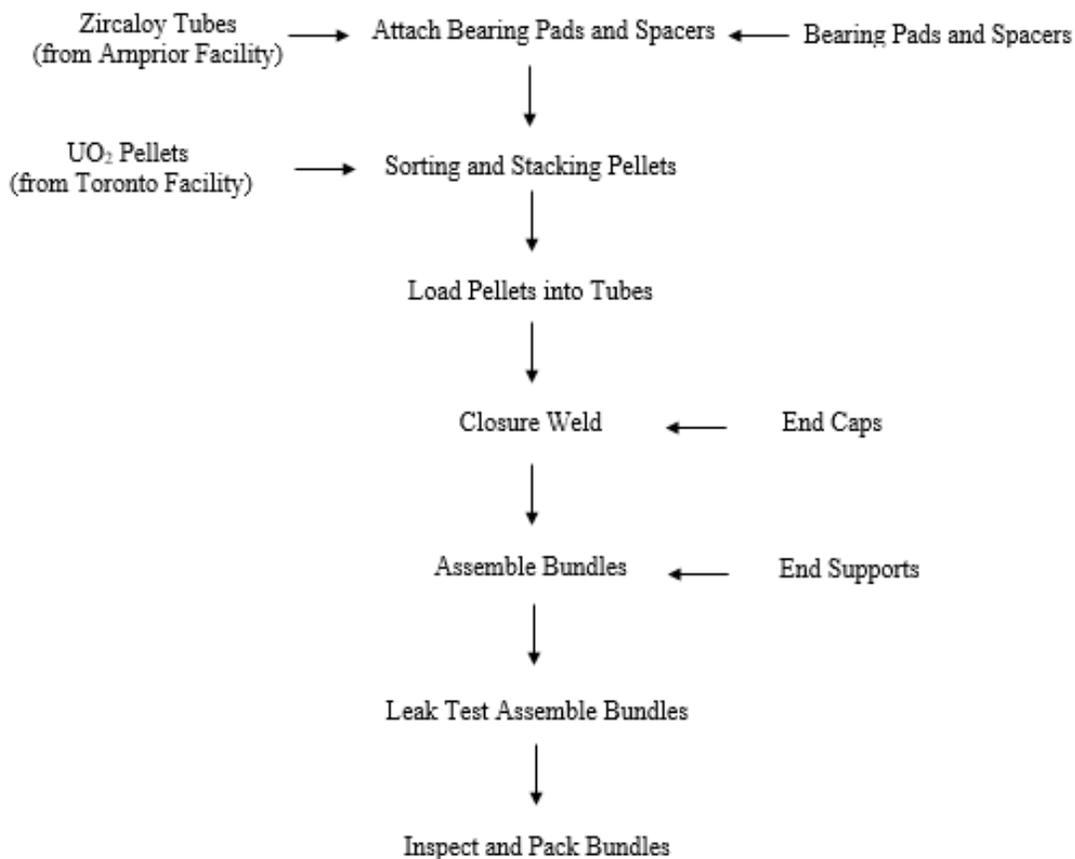


Figure 2: Fuel Bundle Fabrication Process

Although the CNSC Licence authorizes production of fuel pellets in Peterborough, subject to certain conditions, fuel pellet production does not currently take place in Peterborough. Fuel pellet production is performed at BWXT NEC’s Toronto facility, in accordance with its Class IB Nuclear Fuel Facility Licence FFL-3621.00/2030.

In addition to fuel fabrication, contaminated equipment from off-site nuclear facilities may be periodically received at the facility for repair and/or modification. During the licence period to date, no contaminated equipment has been received at the Peterborough facility.

BWXT NEC is federally regulated for health and safety. The federal health and safety legislation is the *Canada Labour Code Part II* and the *Canada Occupational Health and Safety Regulations*. The *Canada Labour Code* is enforced by Employment and Social Development Canada. The purpose

of Part II of the *Canada Labour Code* is to prevent accidents and injury to health arising out of, linked with, or occurring in the course of employment. BWXT NEC is additionally regulated environmentally through municipal sewer use bylaws and provincially by the Ontario Ministry of the Environment, Conservation and Parks (MECP). The BWXT NEC facility is also regulated federally by Transport Canada.

BWXT NEC is committed to the establishment and continuous improvement of a healthy nuclear safety culture. Safety culture refers to the core values and behaviours resulting from a collective commitment by our Company's leaders and individuals to emphasize safety, quality, ethics, and security over competing goals to ensure protection of people and the environment. The Environment, Health and Safety (EHS) Mission Statement defines it as a top business priority to continuously improve our EHS systems to protect fellow employees, the environment, and our communities against known and potential environmental, health and safety hazards. The BWXT NEC management team reviews, prioritizes, and controls workplace hazards and ensures compliance with the pertinent regulatory requirements, applicable codes, and company policies.

The primary radiological hazard from uranium is the inhalation of UO₂ particles. A lesser radiological hazard exists in the form of low-level external gamma and beta radiation exposure to employees. BWXT NEC employs multiple layers of protection to mitigate these hazards, including engineered ventilation and containment systems, strict administrative controls, use of personal protective equipment and a comprehensive radiation protection program. Measurements are performed for various parameters to confirm hazards are mitigated. Measurements for airborne and surface traces of uranium are an indicator of process containment efficiency. Urine samples provided by employees are used to indicate if inhalation may have occurred. Whole body, skin, eye, and extremity dose measurements are conducted to demonstrate compliance with the dose limits specified in the *Radiation Protection Regulations* and the ALARA principle. Within the current licence period, all measurement results for employees were below regulatory limits and Action Levels.

Air and water emissions are routinely monitored as part of BWXT NEC's environmental protection program. Within the current licence period, all measured releases have remained very low, representing only a small fraction of regulatory limits and remaining well below Action Levels. The monitoring program ensures ongoing compliance with regulatory requirements and adherence to the ALARA principle.

Table 1 defines the acronyms used in this report.

Table 1: Definition of Acronyms

Acronym	Definition
ALARA	As Low As Reasonably Achievable
ATS	Action Tracking System
BWXT NEC	BWXT Nuclear Energy Canada Inc.
CANDU®	CANadian Deuterium Uranium
CCIB	Canadian Council for Indigenous Business
CCME	Canadian Council of Ministers of the Environment
CLC	Community Liaison Committee
CNSC	Canadian Nuclear Safety Commission

Acronym	Definition
CSA	Canadian Standards Association
CTS	Critical-to-Safety
DIV	Design Information Verification
dpm	Disintegrations per minute – unit of measure for radioactivity 1 dpm = 0.017 disintegrations per second
EASR	Environmental Activity and Sector Registry
EHS	Environment, Health and Safety
EMO	Emergency Management Organization
ERT	Emergency Response Team
FHA	Fire Hazards Analysis
HWIN	Hazardous Waste Information Network
ICL	Internal Control Level
IAEA	International Atomic Energy Agency
IEMP	Independent Environmental Monitoring Program
MECP	Ministry of the Environment, Conservation and Parks
MP	Member of Parliament
MPP	Member of Provincial Parliament
mSv	milliSievert – unit of measure for radiation dose 1 mSv = 0.001 Sv = 1,000 μ Sv
NEW	Nuclear Energy Worker
OPEX	Operating Experience
PAIR	Partnership Accreditation in Indigenous Relations
PDP	Preliminary Decommissioning Plan
PIT	Physical Inventory Taking
PIV	Physical Inventory Verification
POI	Point of Impingement
ppm	Parts per Million
RPRA	Resource Productivity and Recovery Authority
SCA	Safety and Control Area
SSC	Systems, Structures and Components
STOP	Safety Training and Observation Program
TEDE	Total Effective Dose Equivalent

Acronym	Definition
TLD	Thermoluminescent Dosimeter
UO ₂	Uranium Dioxide
μSv	microSievert – unit of measure for radiation dose 1 μSv = 0.001 mSv = 0.000001 Sv
WSC	Workplace Safety Committee

3 SAFETY AND CONTROL AREAS

3.1 Operating Performance

The "Operating Performance" Safety and Control Area (SCA) covers an overall review of the licensed activities.

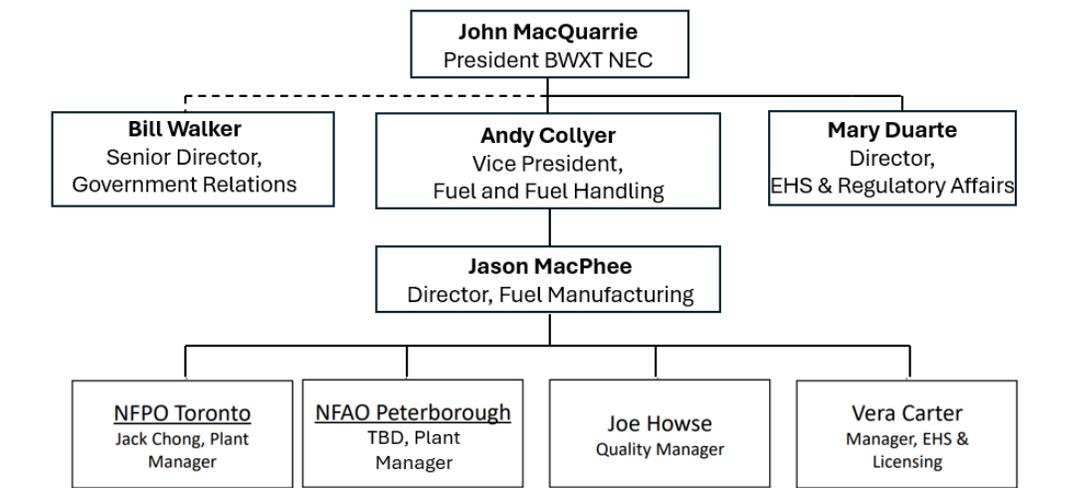
BWXT NEC has successfully implemented and maintained a program for safe operation of the facility that reflects the facility safety analysis. BWXT NEC has established essential documentation (as specified by the Business Management System) including procedures describing the program or system process and work instructions outlining the steps required to complete an individual or set of tasks. This includes the written work instructions for handling of radioactive materials by workers to ensure activities are conducted in a manner that is protective of workers, the public and the environment; as well as full and accurate records to show the acquisition of nuclear substances, inventory of all radioactive nuclear substances and the disposition of all nuclear substances acquired for use or processed by BWXT NEC.

BWXT NEC has demonstrated reliable and consistent operational performance. The Peterborough facility has continued to operate in a manner that supports the company mission to continuously improve EHS systems to protect fellow employees, the environment, and communities against known and potential environmental, health and safety hazards. Operating performance is monitored with key performance indicators and program goals. Reporting of EHS-related concerns is encouraged through a rewards program. These are assigned and tracked to completion in the Gensuite® software system and is used as a measure of employee engagement. In accordance with EHS program requirements, internal audits and self-assessments are conducted routinely to assess conformance to internal and external requirements.

Throughout the licence period, BWXT NEC management team continued to review, prioritize, and control workplace hazards and ensure compliance with the pertinent regulatory requirements, applicable codes, and company policies. Facility operations continued routinely and safely. Fuel pellets were assembled into CANDU® reactor fuel bundles and were then safely shipped to customers. Plant personnel followed procedures satisfactorily, as reflected in internal and external audits, self-assessments, radiation surveys, contamination monitoring, air sampling measurements and other safety inspections. There were no Action Level exceedances during the licensing period to date. During the licensing period there were no significant modifications made to the facility. Operationally, commissioning of the semi-automated pelleting sort and stack line occurred in 2021, as well as beryllium ventilation upgrades being implemented throughout 2022.

The President of BWXT NEC is responsible for all activities within the company. The various functional groups, such as EHS, Quality and Communications report directly or indirectly to the President. Senior management accountability for the effectiveness of the management systems is defined. The Director, EHS & Regulatory Affairs is responsible for the overall EHS program. The current company organization structure is shown in Figure 3 below, there have been a few changes in both personnel and structure during the licensing period.

BWXT NEC - Senior Management Team



NFPO – Nuclear Fuel Pelleting Operations
NFAO – Nuclear Fuel Assembly Operations
EHS – Environment, Health and Safety

November 2025

Figure 3: BWXT NEC Organization Structure

BWXT NEC Peterborough maintained five EHS-related committees from 2021-2024, that review activities including proposed changes to ensure safe plant operations. They are:

- Health and Safety Policy Committee – comprised of unionized workers and management to contribute to making the company as safe as possible by promoting health and safety awareness and making recommendations to workers and management regarding policies and procedures for safe working practices.
- Workplace Safety Committee (WSC) – comprised of unionized workers and management to prevent accidents and occupational illness by promoting health and safety awareness, and making recommendations to workers and management regarding safe work practices and monitoring health and safety issues until resolved.
- As Low As Reasonably Achievable (ALARA) Committee – comprised of unionized workers and management to continuously improve the radiation safety program and implement ALARA practices where practical to ensure that radiation doses are as low as reasonably achievable.

- Beryllium Safety Committee – comprised of unionized workers and management to continuously improve the beryllium safety program and reduce potential beryllium hazards to workers.
- Ergonomics Committee – comprised of unionized workers and management to develop, monitor, and administer the ergonomic procedure and recognize, reduce and where possible eliminate physical and cognitive ergonomic risk factors.

In 2025, the decision was made to integrate the Ergonomics Committee into the Workplace Safety Committee. This change was implemented to streamline oversight, make more effective use of resources, and ensure that ergonomics considerations continue to be addressed as part of overall workplace health and safety.

3.1.1 Possession and Processing

Throughout the current licensing period, all licensed possession and processing limits have been maintained within the approved bounds. Production data is proprietary and is provided on an annual basis to the CNSC.

Production shutdowns were scheduled throughout each year during the current licensing period, for engineering projects, equipment maintenance and continuous improvements. Annual shutdowns will continue to be planned each year to allow for essential maintenance and operational improvements throughout the remainder of the licence term.

3.1.2 Regulatory Inspections

Excluding safeguards related inspections, which are described in section 3.13 of this report, the Peterborough facility was subject to a range of regulatory inspections by multiple authorities. Key activities included:

- **2021:** 2 inspections by MECP (air emissions, and environmental compliance), 1 inspection by CNSC (management system and operational performance), 1 inspection by Transport Canada (transportation of dangerous goods)
- **2022:** 3 inspections by CNSC (environmental protection, fitness for service, comprehensive inspection)
- **2023:** 4 inspections by CNSC (radiation protection, security, training, and waste management)
- **2024:** 2 inspections by CNSC (fire protection program, and public information and disclosure program)
- **2025:** 2 inspections by CNSC (environmental protection, and safety analysis and fitness for service)

All inspections confirmed compliance with regulatory requirements. All corrective actions related to non-compliances are submitted to the regulator and tracked to closure. The Peterborough facility will continue to support transparent and effective oversight throughout the remainder of the licence period.

3.2 Management System

Throughout the current licence period, BWXT NEC has maintained a strong management system consistent with the requirements of the Nuclear Safety and Control Act, applicable regulations, and internal governance processes. The system provides the framework which establishes the processes

and programs required to ensure that the organization achieves its safety objectives and continuously monitors its performance against these objectives, as well as fostering a healthy nuclear safety culture.

The management system is comprised of the following core program elements:

1. Organization and Responsibilities
2. Personnel Capability
3. Use of Experience
4. Work Planning Control
5. Work Processes Control
6. Verification
7. Problem Identification and Resolution
8. Corrective Action
9. Change Control
10. Document Control and Records
11. Audits
12. Management Self-Assessment
13. Management Program Review
14. Supply Chain

During the current licence term, no significant gaps were identified in the management system, and minor findings through audits or assessments were logged in Gensuite® and tracked until closure. The system has proven effective in integrating health, safety, environment, and quality requirements into daily operations. BWXT NEC will continue to strengthen the management system by leveraging operating experience and enhancing integration across sites.

BWXT NEC is committed to maintaining a strong nuclear safety culture and clearly states the expected safety culture behavior. BWXT NEC's commitment to a strong nuclear safety culture is measured by tools such as employee concerns, incident investigations, audits and self-assessments, use of experience and corrective action program metrics that measure the effects of safety culture improvements. External agencies such as the CNSC audit BWXT NEC operations against Canadian Standards Association (CSA) standards, which include safety culture requirements (e.g., CSA N286, *Management system requirements for nuclear facilities*).

In the licensing period, there were no major program changes. Where required, revised documents were submitted to CNSC staff in accordance with the requirements in the Licence Conditions Handbook.

3.2.1 Licensed Activity Related Self-Assessments

The Self-Assessment program governs a proactive process for self-critical, candid, and objective evaluation of performance by a functional area measuring their process performance against internal procedures, expectations, and goals established from business plans or external benchmarking standards.

Throughout the current licensing period, BWXT NEC Peterborough has continued to conduct licensed activity self-assessments as part of its broader management system. These assessments

are performed to identify opportunities for continual improvement and to confirm that work meets the requirements of the management system.

During the first half of our current licence period, BWXT NEC carried out a number of targeted internal reviews addressing areas such as radiological protection requirements, waste handling practices, and environmental monitoring. Each self-assessment confirmed that licensed activities were being conducted safely and in accordance with both regulatory standards and company expectations. Findings were minor in nature and were addressed through corrective actions assigned in Gensuite® and tracked until closure.

Looking ahead, BWXT NEC will continue to integrate self-assessments into its routine oversight process, with a focus on verifying the effectiveness of safety controls, identifying opportunities for improvement, and reinforcing the organization's nuclear safety culture. Future self-assessment will also take into account evolving regulatory guidance and lessons learned from CNSC inspections, ensuring that BWXT NEC continues to meet requirements and aligns with the best practices of the nuclear industry.

3.2.2 Licensed Activity Internal Audits

Internal auditing is an independent, objective activity designed to add value and continuously improve programs. During the first half of the current licence period, BWXT NEC Peterborough has maintained a structured program of internal audits to verify compliance with the Nuclear Safety and Control Act, associated regulations, CNSC licence conditions, and internal management system requirements. These audits are conducted according to a planned annual schedule and are designed to assess the effectiveness of key programs such as radiation protection, environmental monitoring, waste management, conventional health and safety, training, and emergency preparedness.

Results from internal audits confirmed that licensed activities are being carried out safely and in accordance with both regulatory and company requirements. Non-conformances or opportunities for improvement identified through the audits were logged and tracked to closure in the Gensuite® program. As part of the audit process, previous audit findings and self-assessment results are also reviewed to ensure that all corrective actions have been closed and that improvements are effectively implemented. In 2024, BWXT NEC also enhanced its audit process by introducing a requirement that opportunities for improvement identified in subsequent audits, are elevated to non-conformance status to ensure opportunities for improvement are properly assessed and integrated into applicable programs.

Looking forward BWXT NEC will continue to use the internal audit program as a key tool for oversight and continuous improvement. Future audits will place increased emphasis on lessons learned and integration of emerging regulatory guidance, helping to ensure management system remains strong and effective for the remainder of the licence term and beyond.

3.2.3 Management Reviews

Management reviews for EHS program elements are conducted annually before the end of April to review the previous calendar year's activities. Throughout the licence period, BWXT NEC has continued to conduct annual EHS management reviews. These reviews provide senior leadership with an overall assessment of the effectiveness of the management system and licensed activities, ensuring that programs remain aligned with regulatory requirements, company expectations, and the organization's commitment to health and safety.

The reviews conducted to date have confirmed that the management system is functioning effectively, with licensed activities being conducted safely and in compliance with all applicable

requirements. Action items that are identified during reviews are logged in Gensuite® and are tracked to closure, supporting continuous improvement and accountability.

In 2024, the scope of the management review was expanded to include BWXT NEC's Arnprior facility. This improvement has strengthened oversight by ensuring that Operating Experience (OPEX), performance data, and corrective actions are considered across all NEC operations.

Looking forward, BWXT NEC will continue to conduct annual management reviews as a key part of its governance and oversight process. These reviews will remain focused on evaluating system effectiveness, driving continuous improvement, and maintaining alignment with regulatory requirements.

3.3 Human Performance Management

The "Human Performance Management" Safety and Control Area covers activities that enable effective human performance, through the development and implementation of processes that ensure that BWXT NEC staff members are sufficient in numbers in all relevant job areas, and have the necessary knowledge, skills, and tools in place to safely carry out their duties.

Since the beginning of the current licence term, BWXT NEC Peterborough has continued to maintain a strong Human Performance Management program that supports safe, consistent, and high-quality operations. Several improvements have been implemented during this period, some of which include:

- Broader implementation of Foreign Material Exclusion (FME) awareness training for both manufacturing and office employees.
- Enhanced spill response training provided by an external company, combining classroom theory with hands-on practice for Emergency Response Team (ERT) and Repair and Clean staff.
- The Manufacturing Area Hazards Awareness course was updated to include improved content and delivery. The course covers key health and safety topics including radiation protection and beryllium safety.

BWXT NEC has also continued to promote awareness of human factors principles and the importance of communication, procedural adherence, and visible leadership engagement to promote accountability and reinforce safety expectations. Regular performance reviews (Safety Training Observation Program (STOP) Audits, inspections, etc.) and consistent management presence in the workplace have further supported strong human performance and accountability. The Peterborough site has consistently demonstrated strong human performance practices and has met all regulatory expectations during this licence term. The Peterborough facility is staffed with a sufficient number of qualified workers as well as the minimum number of responsible people to carry on the licensed activities safely and in accordance with the *Nuclear Safety and Control Act* and associated regulations. EHS and other staff are available after business hours as needed through cell phones and paging devices.

Looking ahead to the second half of the licence term, BWXT NEC is committed to building on this foundation by implementing program improvements such as refining and standardizing supervisor training, to keep consistency across all sites. Additional improvements will include continued review of job planning processes, continued use of performance metrics to identify trends in human error, and the ongoing reinforcement of a nuclear safety culture that promotes open communication and proactive identification of issues or problems. These initiatives will ensure that BWXT NEC continues

to sustain and improve its strong human performance standards through the remainder of the licence period.

3.4 Safety Analysis

The "Safety Analysis" Safety and Control Area covers the maintenance of the safety analysis which supports the overall safety case for the facility. The safety analysis is a systematic evaluation of the potential hazards associated with the conduct of an activity or facility and considers the effectiveness of preventative measures and strategies in reducing the effects of such hazards. The safety analysis utilizes a combination of What-if Analysis, Hazards and Operability, and Quantitative Risk Analysis and documents a systematic evaluation of hazards associated with the licensed facility.

BWXT NEC has consistently maintained compliance with the *Nuclear Safety and Control Act* and associated regulations, as evidenced by the comprehensive Annual Compliance Reports submitted to the CNSC. Modifications to the facility are made in accordance with the business-wide Change Control program, which requires review of EHS parameters for new or modified facilities, processes, and new or relocated machinery, apparatus and equipment. Under this process, a proposed modification is screened for potential impact on the facility safety analysis. Where screening identifies a potential impact, a more detailed review of the proposed modification is conducted to identify if the change impacts a safety system, or the basis of the safety assessment (e.g., materials, quantities, locations, etc.). Third-party reviews and regulatory submissions are conducted as required. In this way, impacts on the safety analysis are identified and the safety analysis is validated and updated, where necessary.

During the licensing period, the five-year update of the safety analysis report was made in 2024. The report concludes that the engineered and administrative controls provide protection over a broad range of operating conditions that both restricts the likelihood of events and adequately protects the public and environment. Looking ahead, the safety analysis report is scheduled for a routine five-year update in 2029.

3.5 Physical Design

The "Physical Design" Safety and Control Area relates to activities that impact on the ability of Systems, Structures and Components (SSCs) to meet and maintain their design basis, given new information arising over time and taking into account changes in the external environment.

Changes made to the physical facility, equipment, processes, procedures, or practices that could adversely affect product quality, employee health and safety, the environment, or the public as a result of the operation are assessed through the Change Control program. Changes to the design basis are identified and assessed by key stakeholders through this program, including third-party reviews as required. Adequate mitigations are applied including modification of the proposed change, up to rejection of the proposed change.

During the licensing period, there were no modifications to the physical facility that altered the design basis. Starting in 2021 and continuing into 2022, the automated pellet sort & stack was commissioned. In 2022, new fans were installed into the beryllium ventilation systems and additional ventilation was provided at process equipment. Any plans to alter the physical design of the Peterborough plant would be assessed through the Change Control program.

3.6 Fitness for Service

The "Fitness for Service" Safety and Control Area covers activities that impact on the physical condition of SSCs to ensure that they remain effective over time. This includes programs that ensure all equipment is available to perform its intended function when called upon to do so.

BWXT NEC maintains a comprehensive Fitness for Service program to ensure that Systems, Structures, and Components (SSCs) important to safety remain capable of performing their intended functions throughout their operational life. BWXT NEC Peterborough has a Critical to Safety (CTS) program in place. The program includes a clear identification and control of items that are considered CTS. Critical to Safety items are those hardware items that directly ensure the safety of workers, protection of the environment, or regulatory compliance in the following three categories:

- Equipment and infrastructure identified as Safeguard Measures in the Facility Safety Analysis Reports;
- Respiratory personal protective equipment; and
- Instrumentation generating data to demonstrate regulatory compliance.

The facility is using an asset management and preventative maintenance software system. Maintenance Connection®, a web-based maintenance management software for work order and asset management. Maintenance Connection assists BWXT NEC in efficiently managing preventative maintenance tasks as well as to control and identify maintenance on CTS and Critical-to-Quality assets and components. Preventative maintenance tasks on CTS equipment are designated in this system as described in the business wide *Enterprise Asset Management Program Procedure*.

All CTS tasks issued from 2021-2024 period are closed, and only 0.5% of work orders from 2025 remain open with a plan to close these out early in 2026. In the first half of the licensing period, 94% of CTS tasks issued were completed within 14 days of the target completion date.

Preventative maintenance is considered during the assessment of changes as part of the business-wide Change Control program. Additionally, in the event of a near miss, incident, injury, inspection or suggestion, the preventative maintenance program for related equipment is reviewed as applicable. Throughout the first half of the licensing period, a few of the improvements that were implemented include:

- Water level sensors and an audible alarm system were installed in the beryllium acid rinse tank overflow compartment and surrounding floor area.
- Replacement of sprinkler heads in B26, B24 and on B21-1.
- Unifying engineered sketch process with the rest of BWXT NEC methodologies. This includes updated standardized labelling of all components to eliminate unfamiliar or unknown parts on hand. All new engineered components are recorded in a configuration database to associate them with each workstation and are engraved or otherwise marked with part numbers to simplify identification for all employees. This improves the speed at which preventative maintenance can be completed, assists in adding clarity to preventative maintenance instructions (as we may now refer to specific part numbers directly in Work Instructions and require Technicians to verify part numbers), improves traceability of inventory, and standardizes the communication/component language for operators, technicians, and engineering.

The preventative maintenance program is periodically assessed through self-assessments and internal audits. There have been no issues identified during the licence term that would indicate any significant degradation in fitness for service or that would challenge the safe operation of the facility.

Looking ahead to the second half of the licence term, BWXT NEC Peterborough plans to enhance the Fitness for Service program through improved tracking of maintenance projects and associated documentation and continued focus on the management of CTS equipment. These initiatives will

allow BWXT NEC to continue to improve and maintain high standards of safety and operational performance.

3.7 Radiation Protection

The "Radiation Protection" Safety and Control Area covers the implementation of the Radiation Protection Program, in accordance with the *Radiation Protection Regulations*. BWXT NEC has a well-established and effectively implemented Radiation Protection Program, which includes a commitment to ALARA and continuous improvement. The program addresses the radiation hazards associated with UO₂. This program ensures that surface/airborne contamination and radiation doses to employees and the public are monitored and controlled. The Director, EHS & Regulatory Affairs, has oversight of BWXT NEC's Radiation Protection Program.

The Radiation Protection Program in Peterborough continues to be implemented effectively and has demonstrated sustained control of worker and public doses well below regulatory limits. Monitoring is achieved using thermoluminescent dosimeters (TLDs) to assess whole-body, skin, extremity, and eye doses, as well as routine urinalysis sampling conducted to evaluate potential internal exposures to workers. Results are provided by an external dosimetry service provider and are reviewed by EHS personnel, with performance oversight by the ALARA Committee to identify dose reduction opportunities and verify the continued effectiveness of the program controls.

Protective measures are incorporated into work planning and execution through the application of the hierarchy of controls, including engineered barriers, contamination control practices, and ventilation systems; administrative controls such as EHS work permits, training, and procedural requirements; and personal protective equipment, including respiratory protection where required. Adherence to the principles of time, distance, and shielding is maintained throughout all radiological operations. These measures ensure that doses remain ALARA and confirm the continued effectiveness of the Radiation Protection Program.

Environmental monitoring continues to demonstrate that radiological emissions and direct radiation from the facility operations are negligible, with no measurable impact on the surrounding public. Routine sampling and dose monitoring at the perimeter and community locations further reinforce transparency and confidence in the effectiveness of the Radiation Protection Program.

Looking ahead to the second half of the licence term, BWXT NEC Peterborough will continue to strengthen its Radiation Protection Program through additional shielding projects, and through the automation of dose result inputs from the external dosimetry provider, into the internal radiation database to reduce manual data entry and potential for human error. These initiatives further demonstrate BWXT's ongoing commitment to radiation safety excellence and the continual application of the ALARA principles.

3.7.1 ALARA Committee Performance

The ALARA Committee at BWXT NEC Peterborough continues to play a key role in the oversight and continuous improvement of the Radiation Protection Program. The committee provides a structured forum for reviewing radiological performance, identifying opportunities for dose reduction, and ensuring that operational practices remain consistent with the ALARA principle.

The Committee is comprised of representation from EHS, Operations, and Supervision to ensure that radiological considerations are integrated into licensed activities and applicable work processes. Meetings are held quarterly to review dose trends, contamination monitoring results, internal audit findings, and events, near misses, or employee concerns. Additional meetings are scheduled as required.

Since the start of the current licence term, the ALARA Committee has achieved meaningful progress in several key areas. These include shielding projects, improved TLD compliance (>99%), and improvement of the visual presentation of radiation metrics for better awareness on the shop floor. The ALARA Committee also conducted individualized field sessions with employees at their workstations to demonstrate real-time dose rate measurements and the effect of small changes in position, application of shielding, or distance on exposure. These interactive sessions provided personalized feedback and reinforced ALARA principles in a practical setting, supporting both worker education and continuous improvement in dose reduction practices.

Looking ahead, BWXT NEC Peterborough plans to further strengthen the ALARA program through continued training and program enhancements. In 2025, a shielding project was implemented in the Final Inspection Area to reduce dose rates. Ongoing training for ALARA Committee members will ensure they remain knowledgeable and effective in supporting radiological safety initiatives across the site, and continued focus will be placed on worker training and awareness initiatives, particularly in the areas of contamination control and effective cleaning practices.

3.7.2 Radiation Protection Training Program and Effectiveness

BWXT NEC maintains a comprehensive Radiation Protection Training Program designed to ensure that employees and contractors entering classified areas understand radiological hazards, applicable controls, and the requirements of the Radiation Protection Program. The program is developed in accordance with the Systematic Approach to Training (SAT) methodology, ensuring that training is competency-based, evaluated for effectiveness, and continuously improved. Training is delivered through a combination of classroom instruction, on the job training, and online learning with periodic refresher sessions to ensure that employee knowledge remains current and that the workers can apply ALARA effectively in their daily operations.

BWXT NEC has consistently maintained and refined its radiation protection training content to ensure the program remains effective and aligned with operational needs. Training materials are regularly reviewed and updated to reflect procedural changes, feedback from internal audits, OPEX, and observations from CNSC inspections. The Peterborough site has broadened radiation instrument training to include additional personnel, enhancing overall radiological awareness and supporting daily operational activities.

Refresher training is completed at defined intervals, and worker performance and comprehensions are verified through testing and practical assessments. Program effectiveness is verified through periodic audits to confirm that workers are performing radiological tasks safely and in line with procedures. Additional oversight is maintained through the EHS work permit process for non-routine activities, which helps to ensure the appropriate radiological controls are considered during job planning. Ongoing communication and reinforcement of key topics are also provided through regular safety talks and meetings.

Training program content will continue to be reviewed and refined throughout the remainder of the licence term and beyond, to reflect operating experience, regulatory expectations, and feedback from workers and the ALARA Committee. During the second half of the licence term, BWXT NEC will maintain its focus on strengthening radiological safety culture through continued education and engagement. Emphasis will be placed on ensuring training remains current and practical, with additional opportunities for hands-on learning and ongoing reinforcement of key principles to support safe work performance and ALARA performance at the site.

3.7.3 Radiation Device and Instrumentation Performance

BWXT NEC maintains a well-established program to ensure radiation detection and monitoring equipment are properly maintained, calibrated, and suitable for their intended use. Radiation

detection equipment calibrations are conducted within 12 months of the previous calibration as required by regulation. Throughout the current licensing period, the radiation calibration program has remained effective, with no changes made to its structure or implementation. Routine performance checks, preventative maintenance, and timely servicing continue to support reliable radiological monitoring to ensure safe working conditions. BWXT NEC Peterborough will continue to maintain this program and conduct periodic audits and self-assessments to confirm its continued effectiveness and compliance with regulatory expectations.

3.7.4 Contamination Control Data

When radioactive material is handled in a non-sealed container, there is the potential for it to be spread onto other objects. This is known as radioactive contamination. Radioactive contamination refers to small amounts of nuclear substances on surfaces or within the air, where its presence is unintended or undesirable.

BWXT NEC Peterborough maintains an effective contamination monitoring and control program to ensure radioactive contamination remains within acceptable limits. Contamination monitoring results for the current licensing period are summarized in Table 2, which includes data from all monitored areas. The majority of contamination exceedances occurred in the R2 classified area, consistent with the higher levels of uranium handling and processing activities in that area.

Following the installation and start up of the Sort and Stack operation in late 2021 and early 2022, a small increase in contamination exceedances was observed, primarily due to the increased manual handling of pellets associated with the process. Recognizing that the Sort and Stack operation would lead to an increase in contamination, BWXT NEC Peterborough proactively increased the coverage of contamination monitoring in the R2 area to better characterize contamination patterns. Data collected through this enhanced monitoring helped identify areas where additional cleaning was required and guided the development of new routine cleaning tasks specific to the operation. Whenever an exceedance was identified, the affected area was promptly cleaned and resampled to confirm contamination had been effectively removed. Ongoing trends in sample exceedances are logged into Gensuite® and investigated, with follow up actions recorded and tracked to completion. These measures have improved contamination control and provide a stronger understanding of contamination behaviour in the affected work areas.

Moving forward, BWXT NEC will continue to monitor contamination trends closely, assess the effectiveness of existing cleaning practices, and identify opportunities for further improvement to maintain strong contamination control performance across all operational areas.

Table 2: Summary of Surface Contamination

Surface Contamination			
Classification and Area Description	Internal Control Level	2021-2025	
		Number of Samples	Number Samples Exceeding Internal Control Level (%)
R2 – Pellet Loading, Element Welding and Pellet Storage	2,200 dpm /100 cm ²	3294	37 (1.1%)
R1 – Bundle Assembly, Inspection, Receiving, Building 24	220 dpm /100 cm ²	625	0 (0.0%)
Active – Met Lab, Waste Room	220 dpm /100 cm ²	462	4 (0.9%)
Unclassified – Items, Main Hallway	220 dpm /100 cm ²	2607	5 (0.2%)

3.7.5 Air Monitoring

As part of a well-established and implemented industrial hygiene program, BWXT NEC conducts air monitoring to ensure that airborne concentrations of uranium are effectively controlled in the workplace and that radiological exposures to workers are maintained As Low As Reasonably Achievable (ALARA). Breathing air is sampled for measurement of uranium content. Workstation air monitoring is a key performance indicator that speaks to effective administrative and engineered controls. A respiratory protection program is in place. Non-routine work functions, such as machine maintenance, modifications, etc. are controlled by EHS Work Permits. These processes specify protective measures, including those to reduce exposure to airborne UO₂. This may or may not include air monitoring and/or respirator use.

Each process workstation where open UO₂ pellets are handled are periodically monitored during routine operations for airborne UO₂. Filter papers are analysed in-house and verified by an independent external laboratory using delayed neutron activation analysis. Results for the current licensing period (2021-2025) are summarized in Table 3. Both the maximum and the average workstation air monitoring results continue to remain well below Internal Control Levels, with the average concentration increasing since the introduction of the Sort and Stack operation. The number of active workstations samples in 2024 was lower due to fewer workstations being in use. Moving forward, BWXT NEC plans to continue to evaluate new sampling locations in alignment with production, in 2025 additional sampling points were added to the program and monitored.

Throughout the remainder of the licence term and beyond, the air-monitoring program will continue to be periodically reviewed and optimized to ensure continued compliance, data integrity, and overall program robustness in alignment with the ALARA principle.

Table 3: Workstation Air Monitoring Summary

Workstation Air Monitoring	2021	2022	2023	2024	2025
Number of Different Workstations Sampled	6	6	5	3	6
Total Number of Samples Collected	81	46	64	46	48
Total Number of Samples Exceeding Internal Control Level (facility and area specific)	0	0	0	0	0
Total Number of Samples Exceeding Action Level (facility and area specific)	0	0	0	0	0
Average Concentration (dpm/m ³)	0.09	0.19	0.25	0.43	0.52
Maximum Value Recorded (dpm/m ³)	0.67	0.85	8.52	2.44	3.53

3.7.6 Facility Radiological Conditions

Radiation fields from use and storage of radioactive materials may result in external radiation doses to workers. To ensure that radiation dose rates are ALARA, routine gamma radiation surveys are conducted periodically using calibrated portable handheld radiation detectors. Measured dose rates are compared to targets for areas based on area classification and occupancy.

Overall, radiological conditions have remained stable throughout the licence period, with measured dose rates remaining within historical ranges and regulatory expectations. The results from 2021 to 2025 are summarized in Table 4. Variability due to the timing of the surveys is a factor in the results, as production levels and movement of materials vary over the course of a day. The facility will continue to maintain and periodically audit the radiological survey program to ensure accuracy, consistency and continued improvement for the remainder of the licence term.

Table 4: Routine Dose Rate Survey Summary

Gamma Dose Rates	2020	2021	2022	2023	2024	2025
Total Number of Locations Surveyed	366	361	380	417	357	590
Average Dose Rate (µSv/h) on Shop Floor	2.7	3.1	2.7	3.7	3.6	2.4
Average Dose Rate (µSv/h) in Storage Areas	4.3	5.5	4.6	4.9	5.7	3.7

3.7.7 Urinalysis Results

The presence of uranium in the urine is an indication of recent inhalation of UO₂ dust or the systemic clearance of an established thorax burden. At BWXT NEC, urinalysis is used as a screening tool to initiate further review of internal dose control measures and practices but is not used to estimate internal dose.

All employees working where exposed UO₂ material is processed (R2 classified area) for a period greater than 30 hours per quarter, or working as a roving inspector during the quarter, submit urine samples for uranyl ion analysis. Samples are analyzed by an external laboratory for uranium content using Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) with a minimum detectable concentration of 0.1 µg uranium per Litre (U/L). Results are compared to Internal Control Levels (ICLs) and Action Levels and entered and retained in an electronic database.

Urinalysis results from 2021 through 2025 are summarized in Table 5. During this period all results were well under both the ICL and Action Level, demonstrating that internal dose controls and contamination prevention measures remain effective.

Looking forward, BWXT NEC will continue to maintain the urinalysis program as an important screening tool used to verify the effectiveness of internal exposure controls. The program will continue to promptly identify changes in internal exposure potential and initiate further review or corrective action where necessary.

Table 5: Urinalysis Results Summary

Urinalysis	2021	2022	2023	2024	2025
Number of urine samples analyzed	103	105	110	101	95
Number of samples above Internal Control Level (5 µg U/L)	0	0	0	0	0
Number of samples above Action Level (10 µg U/L)	0	0	0	0	0
Maximum result (µg U/L)	0.1	0.2	0.1	0.9	0.6

3.7.8 Radiation Doses

BWXT NEC Peterborough maintains a TLD program for whole body, skin, eye, and extremity monitoring, ensuring compliance with regulatory dose limits and supporting the ALARA principle. Regulatory dose limits are listed in

Table 6 and Table 7 for reference. Dosimetry data collected throughout the current licence term demonstrate that employee exposures have remained well below established limits, reflecting the ongoing effectiveness of radiological controls and safety practices. These results are consistently reviewed to identify trends, support continuous improvement, and verify that the radiation protection program remains effective. Detailed dosimetry results for employees are presented in the subsequent subsections.

Table 6: Regulatory Effective Dose Limits

Effective Dose Limits		
Person	Period	Effective Dose (mSv)
NEW, including a pregnant NEW who has yet to disclose pregnancy status	(a) One-year dosimetry period	50
	(b) Five-year dosimetry period	100
Pregnant NEW	Balance of the pregnancy	4
A person who is not a NEW (i.e., a member of the public)	One calendar year	1

Table 7: Regulatory Equivalent Dose Limits

Equivalent Dose Limits			
Organ or Tissue	Person	Period	Equivalent Dose (mSv)
Lens of an eye	(a) NEW	One-year dosimetry period	50
	(b) Any other person	One calendar year	15
Skin	(a) NEW	One-year dosimetry period	500
	(b) Any other person	One calendar year	50
Hands and feet	(a) NEW	One-year dosimetry period	500
	(b) Any other person	One calendar year	50

3.7.9 Total Effective Dose Equivalent

BWXT NEC monitors the Total Effective Dose Equivalent (TEDE) for employees through the TLD program to ensure that individual exposures remain well below regulatory limits and aligned with the ALARA principle. As a result of operations involving sintered ceramic pellets, the facility does not have any measurable internal dose; therefore, the TEDE is the measured TLD external whole-body dose. Results from the current licence term are summarized in Table 8.

Table 8: Total Effective Dose Equivalent Distribution

Year	Total # Individuals	Total # of Individuals in Dose Range (mSv)							
		0 - 1	1 - 5	5 - 10	10 - 20	20 - 50	50 - 100	100 - 200	200 - 500
2025	78	49	22	7	0	0	0	0	0
2024	67	43	17	7	0	0	0	0	0
2023	79	53	21	5	0	0	0	0	0
2022	69	47	17	5	0	0	0	0	0
2021	73	50	16	7	0	0	0	0	0

TEDE by workgroup over the course of the licensed term is listed in Table 9. The average dose results include zero measurements.

Table 9: Total Effective Dose Equivalent Summary

	Year	All Workgroups	Operators	Technicians	Staff
Maximum (mSv)	2025	8.38	8.38	1.87	1.15
	2024	8.57	8.57	1.53	0.86
	2023	6.78	6.78	1.72	0.79
	2022	7.65	7.65	1.45	0.62
	2021	9.83	9.83	1.42	0.78

	Year	All Workgroups	Operators	Technicians	Staff
Average (mSv/person)	2025	1.59	2.59	0.67	0.22
	2024	1.59	2.53	0.67	0.26
	2023	1.43	2.28	0.65	0.25
	2022	1.29	2.18	0.51	0.15
	2021	1.38	2.51	0.48	0.22

As shown in Figure 4, both the maximum and average TEDE values for workers have remained well below regulatory limits for the duration of the current licence term. Although a small upward trend is observed for the average TEDE, these values continue to reflect a strong level of dose control. The slight increase in average dose can be attributed to increases in reworked material, staffing challenges, and troubleshooting and maintenance on automated process equipment.

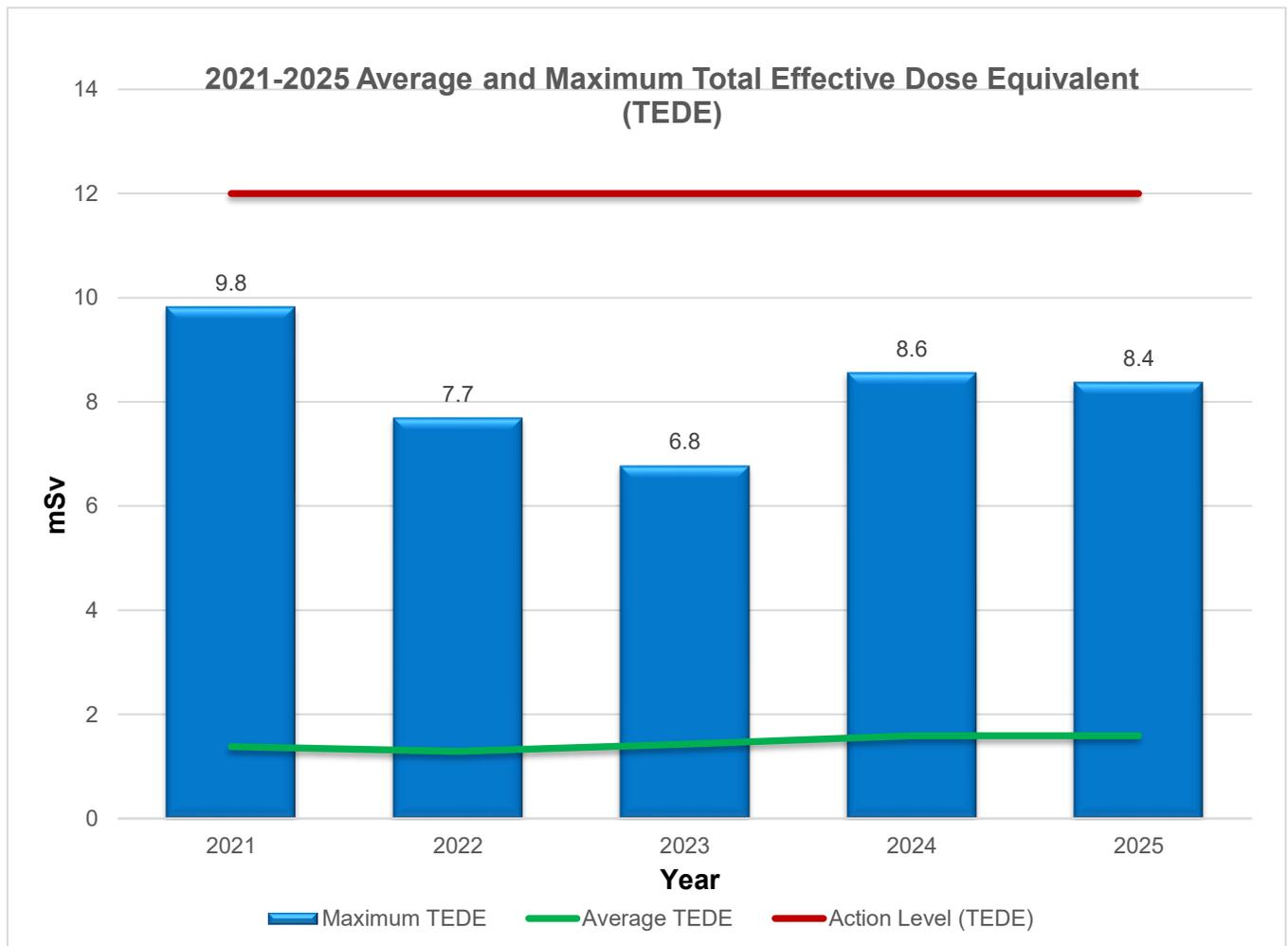


Figure 4: 2021-2025 Maximum and Annual Total Effective Dose Equivalent

BWXT NEC continues to review TEDE data to identify trends and potential contributing factors, ensuring that work practices, shielding, and planning continue to work to minimize exposure. In the fourth quarter of 2025 a shielding improvement project was completed in the Final Inspection area to further reduce local dose rates and enhance protection for workers. BWXT NEC remains committed to ongoing dose reduction efforts and to sustaining the effectiveness of its radiation protection program through continuous improvement, such as the automation of dose uploads into the radiation database.

3.7.10 Equivalent Skin Dose

BWXT NEC monitors equivalent skin dose through the use of the shallow dose component of whole-body thermoluminescent dosimeters (TLDs). This approach provides an effective measure of potential skin exposure resulting from routine radiological operations. Table 10 provides a summary of equivalent skin dosimetry measurements with monitored workers grouped in various ranges of exposure. Equivalent skin dose by work group is summarized in Table 11. The average annual skin dose trend for all monitored individuals over the course of the licensing period, is shown in Figure 5. Skin doses have remained relatively stable, with no significant increase or decrease in the average dose.

Throughout the current licence term, all recorded skin doses have remained well below regulatory limits and internal Action Levels. Minor variations between years are consistent with changes in production activities. No adverse trends were identified, and the results confirm that the established radiological controls and the emphasis of ALARA, continue to limit equivalent skin dose exposures.

BWXT NEC will continue to review and trend equivalent skin dose data to verify the effectiveness of radiation protection measures and to identify opportunities for further exposure reduction through process improvements or shielding opportunities, as well as improve the program by enabling automatic upload of skin dose results to the radiation database.

Table 10: Skin Radiation Dose Equivalent Distribution

Year	Total # Individuals	Total # of Individuals in Dose Range (mSv)							
		0 - 1	1 - 5	5 - 10	10 - 20	20 - 50	50 - 100	100 - 200	200 - 500
2025	78	49	10	8	10	1	0	0	0
2024	67	37	14	4	11	1	0	0	0
2023	79	47	15	5	9	3	0	0	0
2022	69	41	12	6	9	1	0	0	0
2021	73	39	18	3	12	1	0	0	0

Table 11: Skin Radiation Dose Equivalent Summary

	Year	All Workgroups	Operators	Technicians	Staff
Maximum (mSv)	2025	30.01	30.01	2.28	1.16
	2024	25.76	25.76	1.97	1.59
	2023	25.15	25.15	1.98	1.60
	2022	21.67	21.67	1.94	1.85
	2021	30.87	30.87	1.97	1.66
Average (mSv/person)	2025	3.13	5.44	0.72	0.23
	2024	3.69	6.17	0.91	0.43
	2023	4.11	7.11	0.84	0.41
	2022	3.50	6.26	0.74	0.29
	2021	3.64	7.02	0.66	0.38

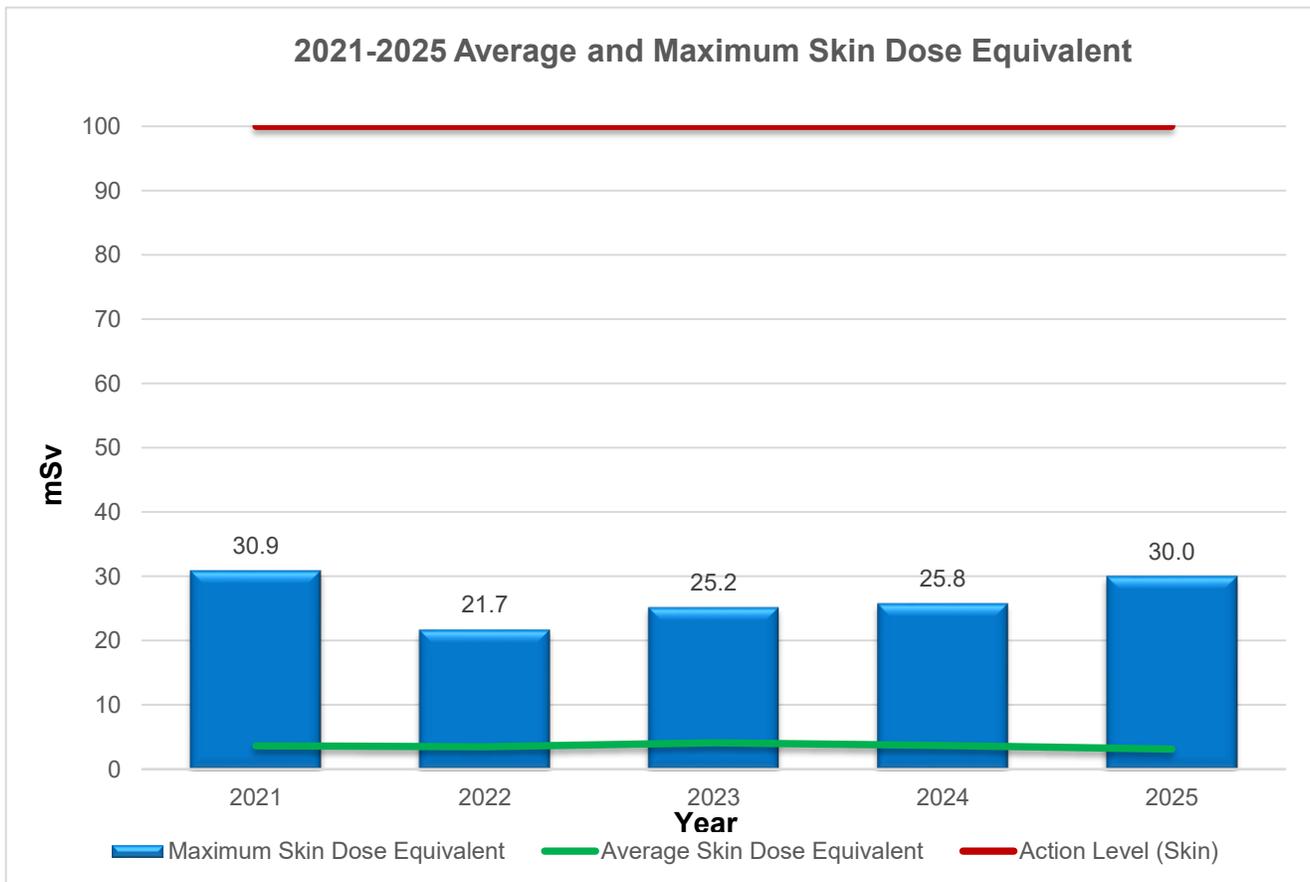


Figure 5: 2021-2025 Maximum and Average Skin Dose Equivalent

3.7.11 Equivalent Extremity Dose

BWXT NEC Peterborough monitors extremity dose via TLD rings. These rings are worn on certain individual's hands for a one-week period each quarter to measure extremity dose. A scaling factor is calculated based on hours worked in the quarter and is provided to the dosimetry service provider each monitoring period. The dosimetry service provider applies the scaling factor to the measured dose to estimate the exposure for the quarter.

During the licence term, an extremity study was started in the fourth quarter of 2023 and continued into the first quarter for 2024. Workers in the first quarter wore their extremity rings full time. Table 12 provides a summary of equivalent extremity dosimetry measurements with monitored workers grouped in various ranges of exposure. Equivalent extremity dose by work group is summarized in Table 13. Staff and Technicians do not routinely participate in the extremity monitoring program since there is minimal direct handling of product. The average annual extremity dose trend for all monitored individuals over the licence term, is shown in Figure 6. Extremity doses have remained significantly below regulatory limits and internal Action Levels.

Moving forward, BWXT NEC will continue to maintain the extremity program and review dose data trends, while also looking to improve the program by enabling automatic upload of extremity dose results to the radiation database.

Table 12: Total Extremity Dose Equivalent Distribution

Year	Total # Individuals	Total # of Individuals in Dose Range (mSv)							
		0 - 1	1 - 5	5 - 10	10 - 20	20 - 50	50 - 100	100 - 200	200 - 500
2025	23	2	3	1	5	12	0	0	0
2024	22	2	3	4	3	10	0	0	0
2023	21	1	5	4	5	7	1	0	0
2022	23	2	4	2	7	7	1	0	0
2021	19	1	1	2	8	4	3	0	0

Table 13: Extremity Dose Equivalent Summary

	Year	All Workgroups	Operators	Technicians	Staff
Maximum (mSv)	2025	42.47	42.47	5.39	N/A
	2024	40.30	40.30	N/A	N/A
	2023	63.80	63.80	N/A	N/A
	2022	52.01	52.02	0.4	N/A
	2021	59.00	59.00	N/A	N/A
Average (mSv/person)	2025	20.48	21.17	5.39	N/A
	2024	17.58	17.58	N/A	N/A
	2023	18.39	18.39	N/A	NA
	2022	15.63	16.32	0.4	NA
	2021	23.70	23.70	N/A	NA

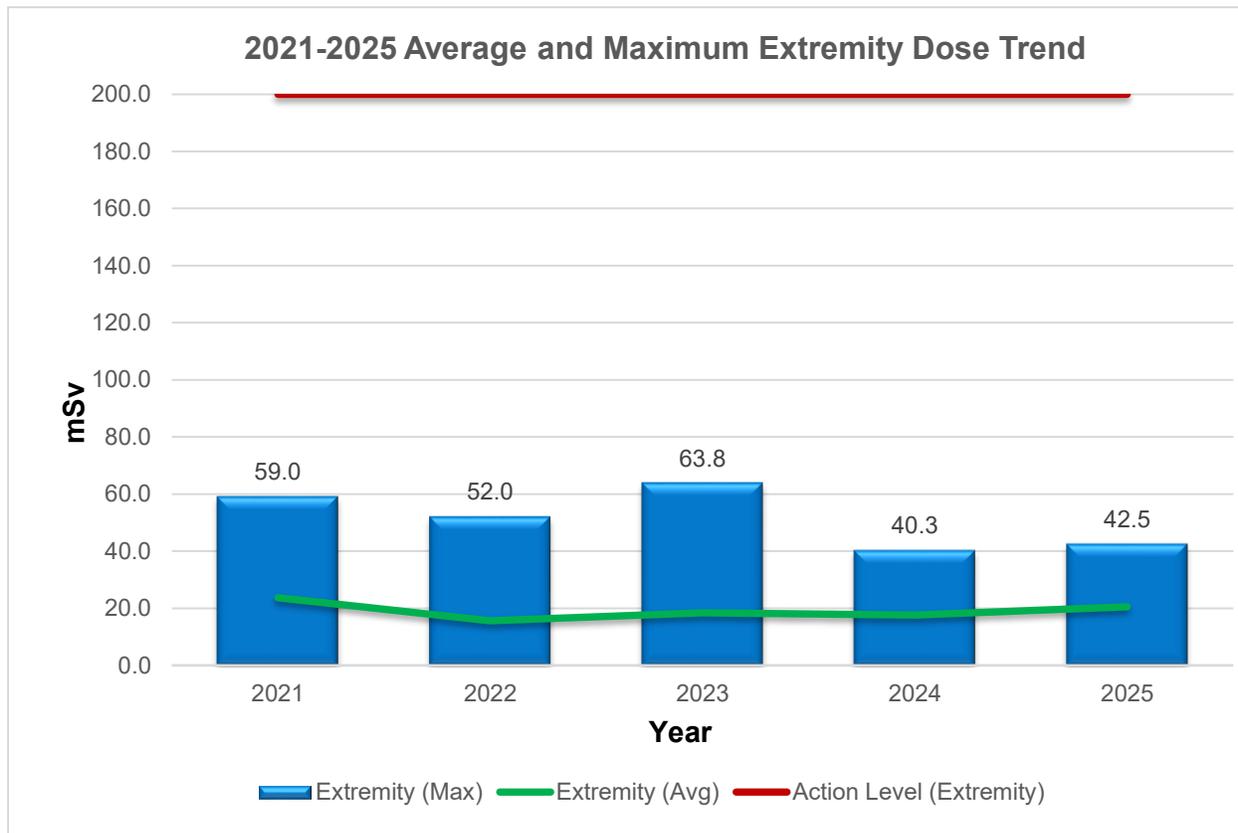


Figure 6: 2021-2025 Maximum and Average Extremity Dose

3.7.12 Equivalent Lens of an Eye Dose

BWXT NEC Peterborough monitors the equivalent dose to the lens of the eye using the whole body TLD. The dosimetry provider calculates the eye dose Hp(3), using the results from the multiple elements within the TLD. Throughout the current licensing period, lens of eye doses have remained well below the applicable regulatory limits, demonstrating the continued effectiveness of existing controls and the radiation protection program. The regulatory limit for a Nuclear Energy Worker (NEW) is 50 mSv, shown in Table 7. Currently there is no Action Level in place at Peterborough for eye lens dose. An Internal Control Level was set at 4.25 mSv/quarter.

A study was initiated in October 2023 and continued into the first quarter of 2024 to examine the method and effectiveness of using the standard whole body TLD to calculate eye lens dose. The study determined that the whole body TLD was effective. Overall, doses to the lens of the eye are well under the regulatory limit.

Looking forward, BWXT NEC plans to enhance the monitoring program by integrating lens of eye dose data into the radiation database in conjunction with the automatic upload of dose results. This improvement will provide more efficient data management, better trending capabilities, and improved oversight of dose results. BWXT NEC remains committed to evaluating new monitoring technologies and incorporating program refinements to continue to support the ALARA principles and maintain exposures within regulatory limits.

3.7.13 Total Estimated Doses to Members of the Public

Total effective radiation dose equivalent to members of the public are specified in the *Radiation Protection Regulations* and listed in Table 6. It is a calculated value, measured in mSv, which takes into account the absorbed dose to all organs of the body, the relative harm level of the radiation, and the sensitivities of each organ to radiation.

To ensure compliance with this regulation, BWXT NEC has established Derived Release Limits (DRLs) for uranium emissions to the environment. The facility DRLs account for the realistic exposure pathways as described in the facility Radiation Protection Program to restrict dose to a member of the public to 1 mSv (1,000 µSv) per year, which is the regulatory dose limit. The DRLs assume that a member of the public occupies the BWXT NEC facility perimeter continuously (24 hours per day, 365 days per year). Note: Liquid effluent is not included in the calculation of public dose as the effluent is discharged directly to city sewer systems (following treatment as described in Section 3.9.6) and is not used for drinking. The estimated effective dose as a result of air releases is calculated through direct correlation with the facility DRLs.

In addition, the contribution from gamma radiation emissions to the nearest member of the public is calculated from the net sum of the nearest environmental TLD results from all monitoring periods. The calculation assumes that a member of the public occupies the nearest residence for 66% of their time for the entire year.

The estimated doses to members of the public from licensed activities remain well below the regulatory limit of 1 mSv (1000 µSv) per year as shown in Table 14. These consistently low results demonstrate the continued effectiveness of the facility’s design and operational controls in preventing any measurable radiological impact beyond the site boundary.

Looking ahead, the methodology for assessing public dose may be revised in conjunction with BWXT NEC Toronto to ensure alignment across both facilities. These updates are planned to be implemented in 2026 but are not expected to result in any notable change to the estimated doses for Peterborough, given the historically negligible results observed to date.

Table 14: Estimated Radiation Doses to Members of the Public

Period	Estimated Annual Public Dose (µSv)	% of Public Dose Limit (1,000 µSv = 1 mSv)
2025	5.7	0.6%
2024	0	0.0%
2023	0	0.0%
2022	11.5	1.1%
2021	0.0	0.0%

3.8 Conventional Health and Safety

The "Conventional Health and Safety" Safety and Control Area covers the implementation of a program to manage non-radiological workplace safety hazards and to protect personnel and equipment.

BWXT NEC has a well-established integrated management system for Environment, Health and Safety (EHS) Program excellence. This is ensured through the effective implementation of program elements. BWXT NEC has an established *EHS Mission Statement* that is reviewed and signed

annually by the President of BWXT NEC. BWXT NEC's objective is to eliminate or minimize as low as reasonably achievable both known and potential environmental, safety and health hazards which could impact our employees and the communities in which they live. EHS is a shared responsibility, top business priority, and is continually improved. Over the licence term, the facility has demonstrated strong performance in the Conventional Health and Safety SCA, with zero lost-time accidents in both 2023 and 2024 for the Peterborough site.

In 2025, a significant safety initiative was launched with the installation of a false floor inside the robotic cell in the R2 area to eliminate tripping hazards and level the floor heights for personnel to safely enter and navigate around the cell. This project is scheduled for completion in early 2026 and emphasizes the facility's ongoing commitment to proactively manage conventional hazards and address employee concerns.

Looking ahead, BWXT NEC will maintain its focus on strengthening conventional hazard management throughout the remainder of the licence term and beyond. Continuous improvement is achieved through several review processes, including site inspections, reported safety concerns, and near miss and incident investigations. The effectiveness of the overall program is reviewed throughout the year and evaluated in the annual management review (section 3.2.3), to ensure the conventional health and safety program continues to support BWXT's commitment to protecting personnel, contractors and the community in which we operate.

3.8.1 Workplace Safety Committee

The Workplace Safety Committee at BWXT NEC Peterborough continues to play a central role in promoting a safe work environment and supporting the Conventional Health and Safety program. The committee has routinely met throughout the licence term, achieving quorums for all meetings held between 2021-2025. During this period the WSC established numerous safety goals and successfully achieved all of them, reflecting a strong commitment to proactive risk management and continuous improvement.

The committee actively participates and conducts workplace inspections, hazard identification, incident reviews, safety awareness initiatives, helping to ensure compliance with regulatory requirements and internal policies and procedures. The WSC also helps to facilitate communication between employees and management regarding safety concerns, contributing to ongoing improvements in workplace safety practices. In the fourth quarter of 2025, BWXT NEC consolidated the Ergonomics Committee with the WSC to enhance oversight, streamline safety initiatives, and provide a more integrated approach to conventional hazard management.

Looking ahead, the WSC will continue to set and monitor safety goals, maintain active engagement with employees, and support ongoing initiatives to further strengthen the conventional health and safety culture throughout the remainder of the licence term.

3.8.2 Injuries and Illness

BWXT NEC Peterborough maintains a comprehensive program to track and manage workplace injuries and illnesses, in compliance with reporting requirements. As summarized in Table 15, there was one reportable injury in 2021 and two in 2022, with no injuries or illnesses reported in 2023 or 2024, and one in 2025. This record reflects the effectiveness of ongoing hazard management, training, and safety awareness initiatives across the facility.

Looking forward, BWXT NEC will continue to focus on proactive injury prevention, maintaining thorough reporting and follow-up processes, and continuing to support a strong nuclear safety culture to ensure that workplace health and safety performance remains strong throughout the remainder of the licence term.

Table 15: Lost Time Injuries

2021	2022	2023	2024	2025
1	2	0	0	1

3.9 Environmental Protection

The "Environmental Protection" Safety and Control Area covers programs that monitor and control all releases of nuclear and hazardous substances into the environment, as well as their effects on the environment as a result of licensed activities.

Throughout the current licence term, BWXT NEC has maintained an effective environmental protection program, which identifies and controls environmental aspects and drives continuous improvement to enhance performance and minimize risk to employees and the public. The facility has a well-established environmental management system to ensure effective monitoring programs are in place to achieve environmental goals and regulatory compliance.

Moving forward, BWXT NEC Peterborough will continue to maintain a strong environmental protection program through ongoing monitoring, program reviews, and continual improvement initiatives to ensure sustained compliance and protection of the environment throughout the remainder of the licence term.

3.9.1 Environmental Risk Assessment

BWXT NEC Peterborough maintains an up-to-date Environmental Risk Assessment (ERA) to evaluate the potential effects of site operations on the environment and the public. The ERA was updated in 2023 in accordance with CSA N288.6-22, *Environmental Management of Nuclear Facilities* and was subsequently revised in February 2025 to address comments from the CNSC staff. The ERA concluded that emissions from the facility were very low and no adverse effects to human health and environment are expected.

The ERA assessed radiological, non-radiological exposures, and noise. Radiological dose to members of the public was assessed to be well below applicable regulatory limits. The emissions of non-radioactive contaminants from the facility were below the MECP Point of Impingement (POI) standards; and water releases are also assessed to be minimal. Noise associated with facility operations was assessed and determined to pose no adverse effect to human health or the environment.

The next scheduled five-year update will occur later in the current licence term to ensure the ERA continues to reflect site conditions and operational changes.

The ERA is available on BWXT NEC's public information website: www.nec.bwxt.com.

3.9.2 Environmental Management System

BWXT NEC Peterborough maintains an Environmental Management System (EMS) to ensure environmental protection is effectively integrated into all aspects of site operations. In 2021 the EMS was updated to align with current compliance obligations following the renewal of the facility's licence and associated Licence Conditions Handbook. In 2023, additional updates were made to clarify program goals related to waste minimization and the reduction of emissions and effluents. Minor procedural revisions were also implemented during the licence term, including updates to reflect the Ministry of the Environment, Conservation and Parks (MECP) transition from the Hazardous Waste Information Network (HWIN) to the Resource Productivity and Recovery Authority (RPPRA) program.

Looking forward, the EMS continues to be routinely audited, assessed, and reviewed to ensure ongoing compliance and continual improvement. BWXT NEC Peterborough is currently working on updates to the EMS to align with the most recent version of REGDOC-2.9.2, *Environmental Protection: Environmental Principles, Assessments, and Protection Measures*, with completion of these updates expected by the end of 2025.

3.9.3 Effluent and Environmental Monitoring Programs

The effluent and environmental monitoring programs at the Peterborough facility are designed to validate that both radiological and non-radiological released to air, water, and soil remain well controlled and well below regulatory thresholds. BWXT NEC's effluent and environmental monitoring program is comprised of the following components:

1. Air effluent
2. Water effluent
3. Soil sampling

BWXT NEC has established CNSC accepted Action Levels for various environmental parameters. Action Levels are set below regulatory limits; however, they are CNSC reportable events. Accordingly, BWXT NEC has established Internal Control Levels for various environmental parameters that are set even lower than Action Levels to act as an early warning system. Internal Control Level exceedances trigger an internal investigation and corrective actions; however, they are not CNSC reportable events. Throughout the first half of the licensing period, there were no Action Level or regulatory limits exceeded.

Moving forward, BWXT NEC Peterborough will maintain and refine these monitoring programs to ensure sustained compliance and environmental protection for the remainder of the licence term and beyond.

3.9.3.1 Independent Environmental Monitoring Program

The CNSC's Independent Environmental Monitoring Program (IEMP) conducts periodic sampling of air, water, soil, and vegetation in the vicinity of the Peterborough facility to independently verify that operations do not pose a risk to the public or the environment. The most recent sampling campaign was completed in 2024, with results confirming that all measured radiological and non-radiological substances were below applicable guidelines and were consistent with background levels. These findings continue to demonstrate that the facility's operations have no adverse impact on the surrounding environment or the health of the public. Results from the IEMP are publicly available on the CNSC's website, ensuring transparency and public access to independent environmental data.

3.9.4 Environmental Protection Program Performance

Throughout the current licence period, the Environmental Protection Program at the Peterborough facility has continued to perform effectively, ensuring compliance with regulatory requirements and maintaining protection of the environment and public. The site has continued to establish annual environmental goals to drive continual improvement, several of which have been successfully completed during this period. Notable achievements include the completion of three targeted asbestos abatement projects, a reduction in facility water consumption through the optimization of utility systems and process controls, as well as the implementation of an annual soil sampling program for both beryllium and uranium.

Looking forward, BWXT NEC Peterborough will continue to establish and monitor new environmental goals each year, maintaining focus on waste reduction, sustainable operations, and continued improvement of environmental performance through ongoing assessments and audits.

3.9.5 Air Effluent Monitoring

BWXT NEC Peterborough is currently in the transition from an Environmental Compliance Approval (ECA) to an EASR (Environmental Activity and Sector Registry) with the MECP for air emissions. The site maintains emission summary and dispersion modelling reports and acoustic assessment reports that demonstrate compliance with relevant legislation. An annual summary report is submitted to the MECP. Monitoring of airborne emissions is not required by the MECP as the emissions are deemed to be insignificant in accordance with MECP methodology. Due to the additional regulation by the CNSC, uranium and beryllium stack emissions are both monitored and compared to CNSC Action Levels.

A single process uranium air emission point exists. The R2 area exhaust system exhausts through a High Efficiency Particulate Air (HEPA) filter. The facility performs continuous in-stack monitoring drawing a sample of air across a filter capable of trapping uranium dust. The filter papers are analyzed in-house and verified externally by an independent laboratory by delayed neutron activation analysis. The minimum detection limit is 0.01 µg uranium. Results are compared to the previous results and to the Internal Control Level and Action Level of 1.0 µg/m³. Measured uranium air emissions are included in the estimated dose to members of the public through direct correlation with facility DRLs. Details are provided in section 3.7.13.

The facility also uses beryllium as part of the fuel bundle manufacturing process. The *Environmental Protection Act of Ontario* and *Ontario Regulation 419/05 Air Pollution – Local Air Quality* determine the permitted concentration of contaminant release. The limit at the POI for Beryllium is 0.01 µg per cubic meter of air (µg/m³). The POI is the plant/public boundary. Three beryllium air emission points exist. The facility performs continuous in-stack monitoring drawing a sample of air across a filter capable of trapping beryllium. The filter is analyzed for beryllium using the Atomic Absorption method or the Inductively Coupled Plasma – Atomic Emission Spectrometer method at an accredited external independent laboratory. The result is related to the air volume passed through the filter. The minimum detection limit is 0.002 µg beryllium. A calculation of the concentration is then made based on the volume of air drawn across the filter. These values are compared to the previous results, and to the Internal Control Level of 0.01 µg/m³ and Action Level of 0.03 µg/m³ at the stack exit, which are both very conservative.

Airborne emissions from the Peterborough facility have continued to be effectively controlled and maintained well below the licensed release limits and internal Action Levels. Routine air effluent monitoring and analysis were conducted in accordance with the site's Environmental Protection Program, with the results summarized in Table 16. Uranium air releases continue to remain low and well below the Action Level of 1 µg/m³ as presented in Figure 7. Beryllium concentrations in air effluent in Figure 8 continues to demonstrate a stable performance consisting of very low measurements.

The facility will continue to maintain its robust monitoring and control measures and will review the program periodically to ensure it remains aligned with regulatory expectations and best management practices.

Table 16: Air Effluent Sampling Summary 2021-2025

Stack Description	Emission Contaminant	Total Number of Samples	Action Level (µg/m ³) (# Samples Exceeding Level)	Licence Release Limit (µg/m ³) (# Samples Exceeding Limit)	Highest Value Recorded (µg/m ³)	Average Value Recorded (µg/m ³)
R2 Area	Uranium	252	1.0 (0)	410 (0)	0.007	1.02x10 ⁻³
North	Beryllium	202	0.03 (0)	2.6 (0)	0.003	1.40x10 ⁻⁴
Acid	Beryllium	202	0.03 (0)	2.6 (0)	0.003	2.36x10 ⁻⁴
South	Beryllium	202	0.03 (0)	2.6 (0)	0.002	6.80x10 ⁻⁵

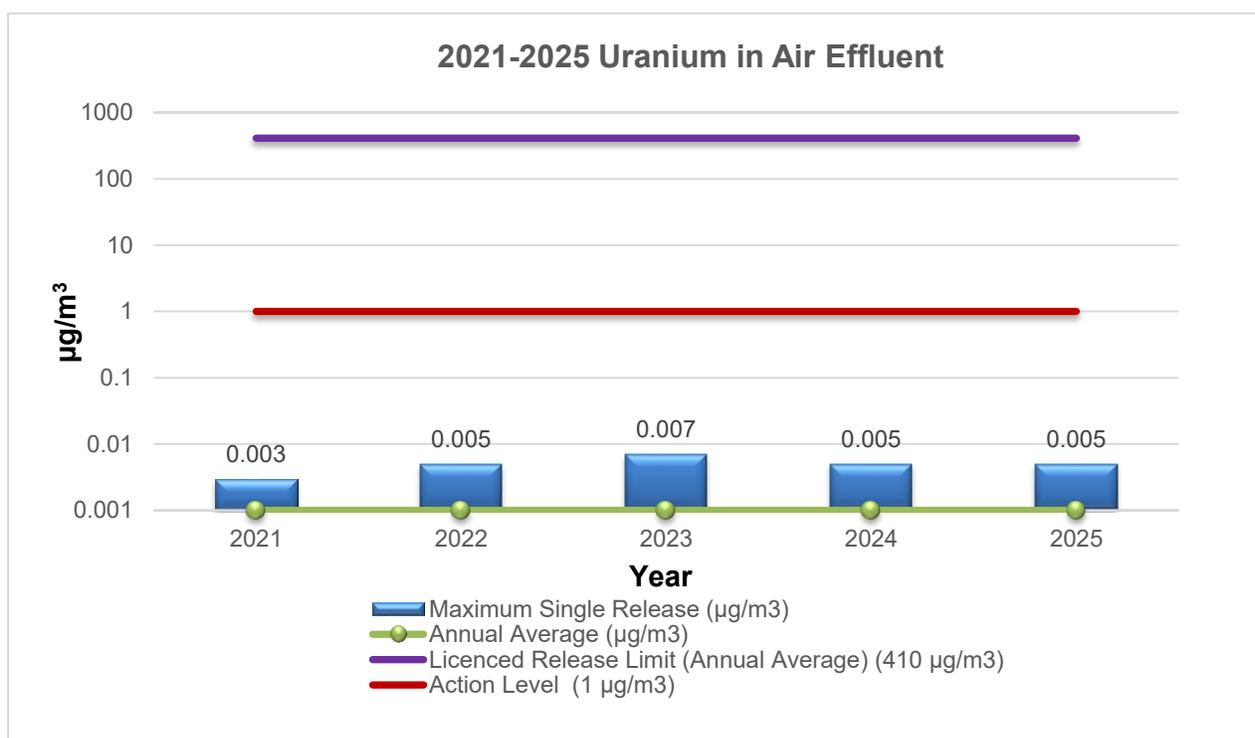


Figure 7: 2021-2025 Uranium in Air Effluent

Note: The above graph has a logarithmic scale.

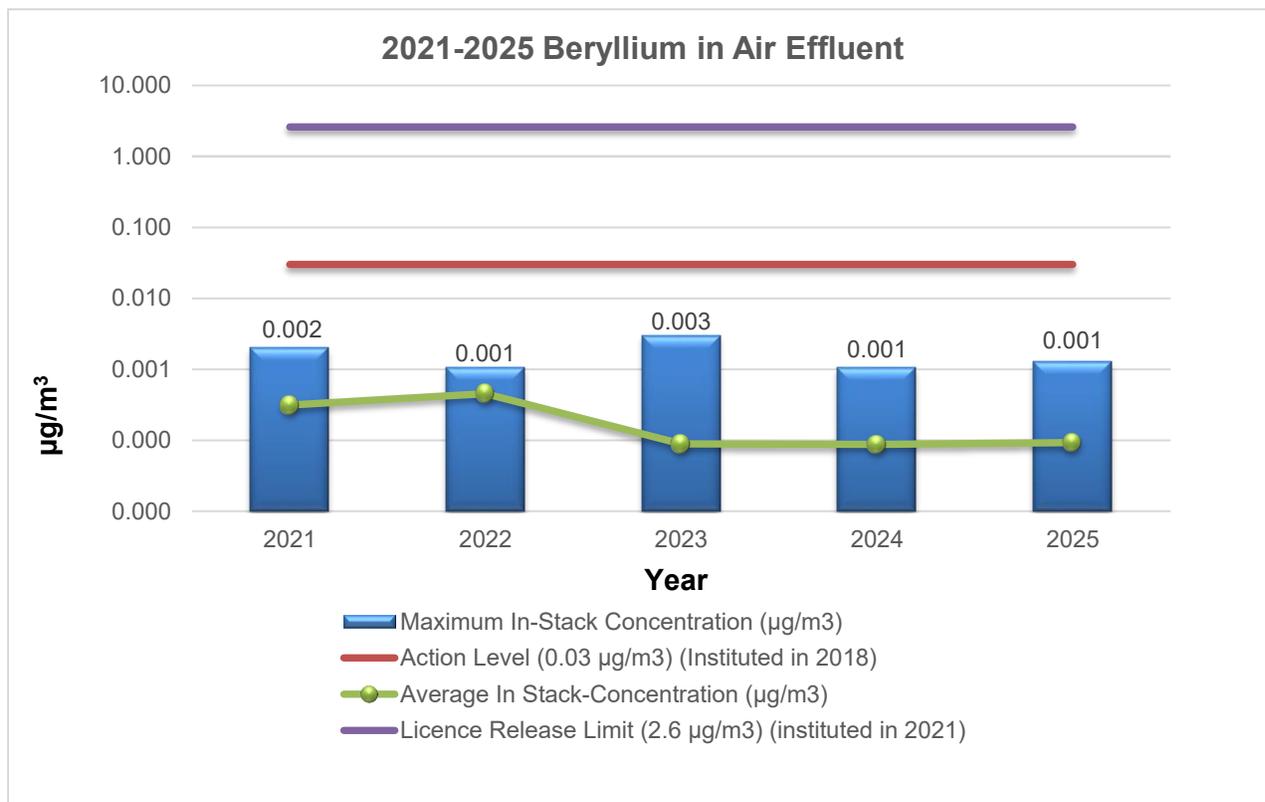


Figure 8: 2021-2025 Beryllium in Air Effluent

Note: The above graph has a logarithmic scale.

3.9.6 Water Effluent Monitoring

All potentially uranium-contaminated wastewater is held for determination of the quantity and concentration of uranium prior to discharge. Liquid waste generated from routine activities, such as washing floors, walls and equipment in the uranium pellet loading and end closure weld area is held in a 205-Litre (45-gallon) drum stored in the maintenance area. Most of the potentially contaminated wastewater originates from floor washing. The water is filtered and agitated prior to sampling and then sent for independent analysis at an accredited external laboratory. The minimum detectable concentration is 0.000002 mg U/L (parts per million (ppm)). After the wastewater sample result is verified to be below the Internal Control Level of 3 ppm (per batch) and the Action Level of 3 ppm (annual average), the wash water undergoes additional filtration and is then discharged to the sanitary sewer.

A summary of water effluent results for uranium is presented in Table 17. Uranium water releases continue to remain low and below the Action Level of 0.003 g/L (3 ppm (annual average)), and the licenced release limit of 0.14 g/L (weekly composite), as presented in Figure 9.

Table 17: Uranium in Water Effluent Sampling Summary

Uranium	2021	2022	2023	2024	2025
Total Amount of Liquid Discharged (L) from Uranium Processing Areas	410	820	615	615	1025
Average Concentration (at the point of release) (ppm)	0.22	0.30	0.07	0.01	0.03
Maximum Concentration (at the point of release) (ppm)	0.41	0.78	0.20	0.01	0.06
Number of Samples Exceeding Internal Control Level (3 ppm)	0	0	0	0	0
Number of Samples Exceeding Action Level (3 ppm annual average)	0	0	0	0	0

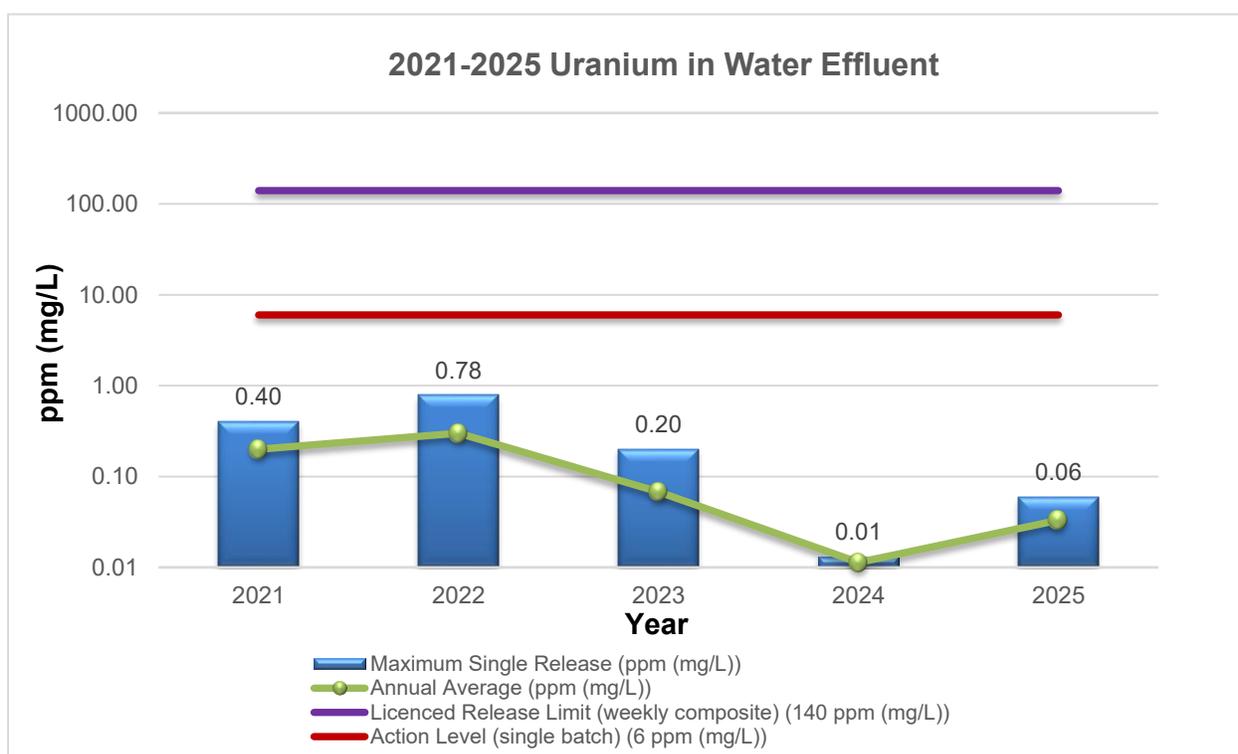


Figure 9: 2021-2025 Uranium in Water Effluent

Note: The above graph has a logarithmic scale.

A second liquid effluent is beryllium in water that is generated from equipment use and cleaning activities in the beryllium classified areas. BWXT NEC has established an Internal Control Level of 4 µg/L and Action Level of 40 µg/L. The Internal Control Level is conservatively consistent with international drinking water guidelines for beryllium, noting that the discharge point is to the sanitary sewer (i.e., not to drinking water). All potentially beryllium-contaminated water passes through a weir settling system prior to release to the sanitary sewer. Regular sampling of the beryllium wastewater is conducted. The water sample consists of a 24-hour composite sample taken from the outflow line. It is sent for analysis at an external accredited independent laboratory. The minimum detectable

concentration is 0.007 µg Be/L (0.000007 mg Be/L or parts per million (ppm)). Sampling results from the licensing period until 2025 are presented in Table 18.

Beryllium average and maximum concentrations are trending steady, as presented in Figure 10. In 2025 there was on Internal Control Level (ICL) exceedance. Where Internal Control Levels are exceeded, internal investigation is conducted to determine the cause and corrective/preventative actions are tracked to closure.

Table 18: Beryllium in Water Effluent Sampling Summary

Beryllium	2021	2022	2023	2024	2025
Total Number of Samples Analyzed for Beryllium Concentration in Water	17	18	20	16	18
Average Concentration (at the point of release) (µg/L)	0.9	0.8	0.6	0.4	0.6
Maximum Concentration (at the point of release) (µg/L)	3.1	3.3	3.8	1.4	6.1
Number of Samples Exceeding Internal Control Level (4 µg/L)	0	0	0	0	1
Number of Samples Exceeding Action Level (40 µg/L)	0	0	0	0	0

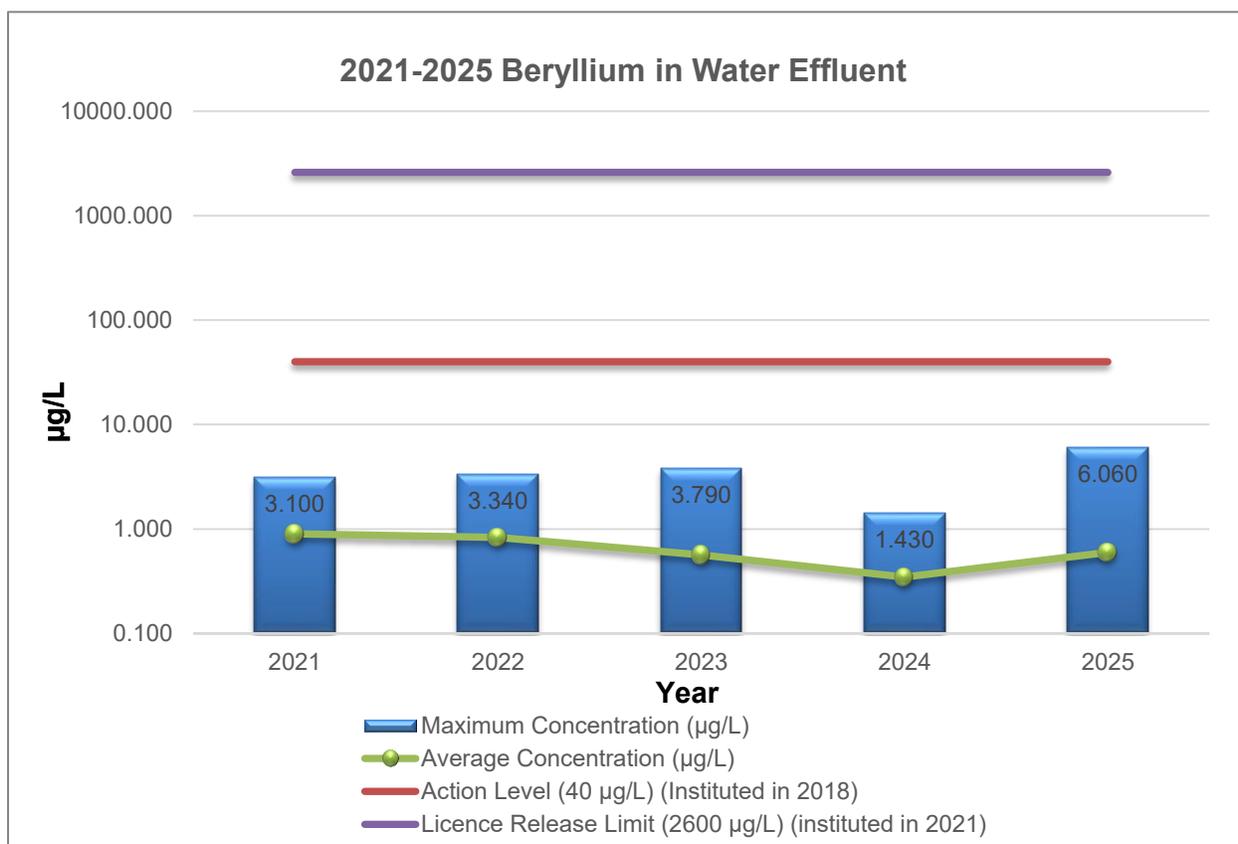


Figure 10: 2021-2025 Beryllium in Water Effluent

Note: The above graph has a logarithmic scale.

The water effluent monitoring program continues to perform as intended, ensuring protection of the public and the environment. Routine review of results and trending analyses are conducted to identify variations and confirm continued compliance. Moving forward, BWXT NEC will maintain its existing monitoring practices and continue to evaluate opportunities for improvement where appropriate to ensure ongoing alignment with best practices and regulatory expectations.

3.9.7 Soil Sampling Measurements/Monitoring

Facility air emissions are the primary pathway for potential release into the natural environment by impingement on the ground surface in the immediate vicinity of the facility depending on the wind direction. Uranium and beryllium may be washed into the soil by rainfall, snow, etc. Depositions of uranium or beryllium are detected by taking small samples of surface soil and analyzing. Soil sampling for beryllium and uranium started in 2021 and is conducted annually by a third-party consultant. If soil analysis indicates concentrations higher than the background levels and MECP standards or rising levels, emissions may have increased, and investigation can be made into the cause.

Samples of surface soil are retrieved from various locations in accordance with a documented plan, most recently in 2025, a Peterborough facility garden was added as a sampling location as well as an extra background sample at the Curve Lake First Nations Powwow Grounds. The sampling methodology used is based on the MECP *Guidelines on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996, ISBN-0-7778-4056-1. A total of four (3-Emily-Omemee Park, 1- Curve Lake First Nations Powwow Grounds) quality control soil samples at background locations are taken, along with two replicate samples for field quality control purposes. The soil samples are stored in a cooler with ice and transported the next day for analysis at an independent accredited laboratory by Inductively Coupled Plasma Mass Spectrometry for uranium and beryllium content. The minimum detectable concentration of uranium is 1.0 part per million (1.0 µg U/g). The minimum detectable concentration of beryllium is 0.5 part per million (0.5 µg Be/g). Results are compared to previous years and the MECP guidelines.

The results of the soil sampling program were compared to the stringent standards in MECP Table 1 (Full Depth Background Site Condition Standards). For residential, parkland, institutional, industrial, commercial, and community property uses, the standard is 2.5 µg/g for both uranium and beryllium.

A summary of results taken in the licensing period is listed in Table 19 for uranium and Table 20 for beryllium.

Table 19: 2021-2025 Uranium Soil Sampling Result Summary (µg/g)

Sampling Location	2021	2022	2023	2024	2025
R.A. Morrow Memorial Park	<1.0	<1.0	<1.0	<1.0	<1.0
Turner Park	<1.0	<1.0	<1.0	<1.0	<1.0
Kinsmen Park	<1.0	<1.0	<1.0	<1.0	<1.0
Del Crary Park	<1.0	<1.0	<1.0	<1.0	<1.0
Prince of Wales School	<1.0	<1.0	<1.0	<1.0	<1.0
Sherbrooke Park	<1.0	<1.0	<1.0	<1.0	<1.0
Victoria Park	<1.0	<1.0	<1.0	<1.0	<1.0
Bonnerworth Park	1.0	<1.0	<1.0	<1.0	N/A

Emily-Omemee Park (1)	<1.0	<1.0	<1.0	<1.0	<1.0
Emily-Omemee Park (2)	<1.0	<1.0	<1.0	<1.0	<1.0
Emily-Omemee Park (3)	<1.0	<1.0	<1.0	<1.0	<1.0
BWXT Facility	N/A	N/A	N/A	N/A	<1.0
Curve Lake First Nation Powwow Ground	N/A	N/A	N/A	N/A	<1.0

NOTE: MECP Table 1 SCS 2.5 µg/g

Minimum Detectable Limit for Uranium – 1.0 µg/g

N/A – Sampling not performed

Table 20: 2021-2025 Beryllium Soil Sampling Result Summary (µg/g)

Sampling Location	2021	2022	2023	2024	2025
R.A. Morrow Memorial Park	<0.50	<0.50	<0.50	<0.50	<0.50
Turner Park	<0.50	<0.50	<0.50	<0.50	<0.50
Kinsmen Park	<0.50	<0.50	<0.50	<0.50	<0.50
Del Crary Park	<0.50	<0.50	<0.50	<0.50	<0.50
Prince of Wales School	<0.50	<0.50	<0.50	<0.50	<0.50
Sherbrooke Park	0.55	0.53	0.56	0.50	0.53
Victoria Park	<0.50	<0.50	<0.50	<0.50	<0.50
Bonnerworth Park	<0.50	<0.50	0.52	<0.50	N/A
Emily-Omemee Park (1)	<0.50	<0.50	<0.50	<0.50	<0.50
Emily-Omemee Park (2)	<0.50	<0.50	<0.50	<0.50	<0.50
Emily-Omemee Park (3)	<0.50	<0.50	<0.50	<0.50	<0.50
BWXT Facility	N/A	N/A	N/A	N/A	<0.50
Curve Lake First Nation Powwow Ground	N/A	N/A	N/A	N/A	<0.50

NOTE: MECP Table 1 SCS 2.5 µg/g

Minimum Detectable Limit for Beryllium – 0.50 µg/g

N/A – Sampling not performed

The analytical results for uranium and beryllium concentrations for all soil samples analyzed are without exception well below the acceptable standard published by the MECP Table 1 Background Site Condition Standards. Based on the results of the sampling program there is no evidence that uranium or beryllium used at the BWXT NEC facility has had any measurable impact on Peterborough soils. No risk has been identified to the soils or to the public of Peterborough.

BWXT NEC will continue to conduct routine soil monitoring in accordance with regulatory and licence requirements, ensuring that environmental protection objectives are maintained. Ongoing evaluation

of sampling locations will be performed to confirm that the program remains effective and representative of site conditions.

3.10 Emergency Management and Fire Protection

The emergency preparedness and fire protection programs are well-established and effective. The facility has an established emergency plan that describes the actions to be taken to minimize the health and environmental hazards, which may result from fires, explosions, or the release of hazardous materials. The plan includes effects to the local area and members of the public. The plan is intended to reduce the risk of fires within the facility and assist emergency staff and plant personnel in understanding key emergency response issues, and assist the facility in protecting employees, the local community, and the environment through sound emergency management practices. The emergency plan is developed in accordance with applicable standards and meets the CNSC operating Licence requirements.

Continuous improvement is achieved through several review processes, including site inspections, reported safety concerns, near miss and incident investigations, drills, and self-assessments. Non-conformances are tracked to closure.

During the licensing period there was one event that activated the emergency organization on September 25, 2025. A fire alarm was pulled for a potential gas leak, Peterborough Fire Services responded to the scene and there was no detection of gas, smoke, or fire, and no release of radioactive materials. This event was reported as a Near-miss and follow up actions were entered into the Gensuite® ATS system.

Looking ahead to the remainder of the licence term, BWXT NEC Peterborough will continue to strengthen its emergency management and fire protection capabilities through periodic training, program reviews, and ongoing collaboration with municipal emergency services. Opportunities for improvement will be identified through lessons learned from drills and exercises to further enhance overall emergency preparedness and response effectiveness.

3.10.1 Emergency Preparedness Program Activities

The facility continues to update and improve its Emergency Response Program. Program improvements including revisions to emergency response work instructions were made during the licensing period.

Throughout the first half of the licensing period, BWXT NEC continued to demonstrate a high level of emergency preparedness. All employees are trained on established fire prevention measures, emergency responses, emergency evacuation routes and their responsibilities. Awareness training is conducted during new employee orientation and refreshed through response drills. On-site emergency responders are provided with the level of training necessary to allow them to effectively perform their designated functions. During this period, annual drills and exercises were conducted including simulated events such as fire response, medical emergencies, and hazardous material spills. Lessons learned from these exercises were documented and incorporated into revised procedures and training plans to support continuous improvement.

Regular training sessions were delivered to Emergency Response Team (ERT) members and other key personnel, ensuring that staff maintain the knowledge and skills necessary to respond quickly and safely. Site evacuation drills were also performed to ensure employee familiarity with emergency procedures and evacuation routes.

In addition, BWXT NEC maintained strong communication and coordination with local emergency services throughout the licensing period, supporting mutual understanding of specific site hazards

and emergency protocols. As part of this engagement, BWXT NEC invites Peterborough Fire Services to participate in the annual emergency response drill and yearly familiarization tours. To date, they have consistently taken part in these exercises and have provided valuable feedback during post-drill debrief sessions, contributing to the continuous improvement of BWXT's emergency preparedness program.

Looking ahead, BWXT NEC Peterborough will continue to conduct annual drills, refresh ERT training, and evaluate opportunities to enhance coordination with external responders. These efforts will ensure the continued effectiveness and improvement of the Emergency Preparedness Program for the remainder of the licence term.

3.10.2 Fire Protection Program Activities

BWXT NEC Peterborough maintains a comprehensive Fire Protection Program that aligns with applicable codes, standards, and regulatory requirements to ensure the ongoing protection of personnel, property, and the environment. The program encompasses fire prevention, inspection, testing, and maintenance of fire protection systems, as well as emergency response training and continuous improvement initiatives.

Throughout the first half of the licensing period, BWXT NEC maintained a high standard of fire safety performance. Fire detection, alarm, and suppression systems, and extinguishers, were routinely inspected, tested, or maintained in accordance with the established preventative maintenance schedule. Results of these inspections and audits confirmed the systems continued reliability and compliance with applicable requirements.

Fire Hazard Assessments (FHAs) are available for Buildings 21, 24, and 26/28. An onsite inspection in March 2024 supported the FHA review, and the updated document was issued in April 2025. The site Fire Safety Plan was reviewed and approved by Peterborough Fire Services in December 2024, confirming that the plan continues to meet municipal and regulatory expectations.

Significant fire protection maintenance activities were also completed during this licence period. In 2023, all sprinkler heads in Building 26 were replaced. In 2022, all sprinkler heads in Building 21-1 (Fuel Shop) and Building 24 were replaced, and internal inspections of all accessible sprinkler risers in Buildings 21, 24, and 26/28 were completed. In 2021, a sprinkler head activation occurred in the building 26 paint booth, resulting in a flow alarm and response from Peterborough Fire Services. Following investigation, the affected sprinkler head was replaced, and the paint booth exhaust sprinkler lines were recharged with antifreeze of a lower temperature rating to prevent recurrence.

Looking ahead, BWXT NEC Peterborough will continue to maintain and improve its Fire Protection Program through scheduled inspections, maintenance, and regular updates to supporting documentation. The site will continue collaborating with Peterborough Fire Services to confirm that mutual support arrangements remain effective and that emergency responders remain familiar with site layouts and fire protection systems.

3.11 Waste Management

The "Waste Management" Safety and Control Area covers internal waste and by-product related programs which form part of the facility's operations, up to the point where the waste is removed from the facility to a separate waste and by-product management facility. This Safety and Control Area also covers the ongoing decontamination and planning for decommissioning activities.

Radioactive wastes are materials that contain a nuclear substance, and which have been declared to be waste. BWXT NEC has an effective and well-established radioactive waste disposal program that ensures all radioactive waste disposals are compliant with the *Nuclear Safety and Control Act* and

associated regulations and the facility operating Licence Conditions. Radioactive solid wastes generated from fuel manufacturing, which consist of, or are contaminated by uranium are accumulated in controlled and classified areas. A low volume of radioactive wastes from Peterborough are transported to and consolidated with the Toronto facility wastes. These are combined, compacted for volume reduction where possible, and shipped routinely to a licensed radioactive waste disposal facility.

BWXT NEC maintains a Preliminary Decommissioning Plan (PDP) and Financial Guarantees in accordance with CNSC regulatory requirements and applicable standards. The 2023 Peterborough facility PDP was reviewed against the criteria set in CSA Standard N294-19, *Decommissioning of Facilities Containing Nuclear Substances* (November 2019), CNSC REGDOC-2.11.2, *Decommissioning* (January 2021), and CNSC REGDOC-3.3.1, *Financial Guarantees for the Decommissioning of Nuclear Facilities and Termination of Licensed Activities* (January 2021).

The PDP strategy and end-state objective of decommissioning is to release the site from regulatory control for industrial use or demolition of the structures. These are reviewed at least once every five years. The PDP summaries for Peterborough and Toronto remain available on our website (www.nec.bwxt.com).

In November of 2022, BWXT NEC submitted an updated PDP to CNSC staff, which was revised in August of 2023 and was accepted by CNSC staff in October of 2023. In 2024, the CNSC Commission accepted the revised financial guarantee amount and BWXT NEC put in place the required financial guarantee instruments to reflect these accepted amounts.

Throughout the licence term facility continued to conduct an annual Waste Audit and Waste Reduction Work Plan due to the large office space, in accordance with *Ontario Regulation 102/94* under the *Environmental Protection Act*. The audits assessed and advanced the non-nuclear waste diversion initiatives and consisted of a physical collection and sorting of generated waste and included a waste composition study. The study provides a prepared Waste Reduction Work Plan where areas of success are highlighted and opportunities for improvement are identified through waste reduction, reuse, and recycling. The results of the audits were communicated to employees and waste reduction and diversion initiatives were undertaken, such as the installation of hand dryers in the washrooms.

Looking ahead, BWXT NEC Peterborough will continue to set environmental goals with waste minimization and sustainability as key considerations. The site will pursue opportunities to reduce waste generation, improve recycling and reuse practices where feasible, and ensure disposal operations remain robust, compliant, and aligned with evolving regulatory and corporate sustainability expectations.

3.12 Security

The "Security" Safety and Control Area covers the programs required to implement and support the security requirements stipulated in the regulations and in the Licence.

The facility maintains a Security Program in accordance with the *General Nuclear Safety and Control Regulations*, *Class I Nuclear Facilities Regulations*, and the *Nuclear Security Regulations*. The Security Program outlines the systems, processes and responsibilities for performing security operations with the objective of maintaining a safe and secure facility. The program manual identifies the individual responsibilities for implementation and maintenance of the program. The manual includes instructions for administering the Security Program, provides the basis for security protocols and identifies the controls in place to meet regulatory requirements. Throughout the licensing period, BWXT NEC maintained a robust security posture through controlled access systems, staff training, and routine program assessments.

The program will continue to be maintained and periodically reviewed to ensure ongoing compliance with CNSC and corporate security standards.

3.13 Safeguards and Non-Proliferation

The "Safeguards and Non-proliferation" Safety and Control Area covers the programs required for the successful implementation of the obligations arising from the Canada/IAEA Safeguards and Non-proliferation Agreement. BWXT NEC has implemented and maintains a Safeguards Program and undertakes all required measures to ensure safeguards implementation in accordance with IAEA commitments and CNSC regulatory document 2.13.1 *Safeguards and Nuclear Material Accountancy*. Movement of safeguarded nuclear material (inventory changes) are documented and reported to the CNSC as required.

During the current licence term, BWXT NEC Peterborough has maintained a robust Safeguards and Non-Proliferation program consistent with the Nuclear Non-Proliferation Treaty and associated CNSC regulatory requirements. Throughout the first half of the licence period, the facility successfully completed multiple safeguards verification activities, including Physical Inventory Taking (PIT), Physical Inventory Verification (PIV), and Design Information Verification (DIV) inspections as well as Short Notice Random Inspections (SNRIs) conducted each year.

In September 2024, during a SNRI, a seal was broken when a skid of fuel was repositioned. This event was immediately reported to the CNSC Duty Officer by BWXT NEC, with no impacts to health, safety, or the environment. No other non-conformances were identified during safeguards inspections over the current licence period, and BWXT NEC has continued to demonstrate strong performance in meeting safeguard obligations.

Looking forward, BWXT NEC Peterborough will continue to support IAEA and CNSC inspection activities, maintain accurate nuclear material accounting, and refine internal reporting practices to ensure continued compliance with all safeguards and non-proliferation requirements.

3.14 Packaging and Transport of Nuclear Substances

The "Packaging and Transport of Nuclear Substances" Safety and Control Area covers the packaging and transport of nuclear substances and other nuclear materials to and from the licensed facility.

BWXT NEC maintains a comprehensive Packaging and Transport program to ensure the safe and compliant movement of nuclear substances in accordance with the *Packaging and Transport of Nuclear Substances Regulations* and the *Transportation of Dangerous Goods Regulations*.

During the current licence term, consignments were prepared, packaged, and documented in accordance with regulatory requirements. In March 2024, a reportable event occurred when a single uranium dioxide pellet was inadvertently shipped back to the Toronto facility in a skid that had been returned to the Toronto facility. The skid was part of a planned radioactive shipment of empty contaminated packaging, which is transported under a different UN number than scrap pellets. The event was self-identified and promptly reported to the CNSC, investigated internally, and corrective actions were implemented and tracked to closure. There were no impacts to worker health, public safety, or the environment.

The sites Emergency Response Assistance Plan (ERAP) was revised and approved by Transport Canada in 2023 and remains valid and in effect until November of 2026, at which time it will be updated. The ERAP outlines response protocols to ensure timely and effective protection of the public, property, and the environment in the event of an accident involving the transport of natural or depleted uranium dioxide.

Tabletop emergency drills were conducted in 2021 and 2022 to test elements of the Transportation Emergency Plan, with identified improvements implemented and tracked to completion.

Looking forward, BWXT NEC will continue to maintain a robust transport program that emphasizes compliance, safety, and continual improvement.

4 OTHER MATTERS OF REGULATORY INTEREST

4.1 Public Information & Disclosure Program

BWXT NEC is committed to connecting with the Peterborough community in a timely, transparent and meaningful way. BWXT NEC recognizes that the most effective way to build and sustain public trust is to maintain environmental excellence while fostering an atmosphere of openness and transparency with the community. The purpose of our Public Information & Disclosure Program is to provide the strategy and methodologies to be employed for public communications, information distribution and feedback, and how these activities will be managed.

BWXT NEC's Public Information and Disclosure Program (PIDP) document has been developed in accordance with CNSC REGDOC-3.2.1, "Public Information and Disclosure."

The objectives of our program are to:

- Improve the level of awareness and understanding among community members about our licensed operations and activities.
- Provide information on the anticipated effects to the environment and on human health and safety, of the licensed activity to the community.
- Foster dialogue with the community to assist our team in determining the information needs and preferred methods for information sharing.
- Build and maintain a relationship of trust with the community.
- Provide meaningful opportunities for the community to discuss and share issues and relay concerns related to our facilities.
- Provide opportunities for community members and other interested parties to visit and tour our facilities.

Over the course of 2021-2025, a number of improvements were made to the Public Information & Disclosure Program:

- Hired a Communications Specialist to support the program with a focus on the Toronto facility.
- Held more in-person meetings, tours and events to allow for increased two-way dialogue and feedback.
- Increased efforts and outreach to expand the Peterborough Community Liaison Committee, this is still ongoing.
- Improved attendance at CLC meetings and collected focused feedback throughout the year specific to emergencies, drills, community surveying and communications tools.
- Created a dedicated Facebook Group to allow for specific community-focused content sharing and engagement.

- Increased the use of targeted social media advertisements to reach a larger audience.
- Improved Indigenous Relations program across BWXT in Canada. More engagement with Indigenous communities.
- Improved community volunteerism and financial support.
- Continuously reviewed and improved public website, updated throughout based on public feedback, questions, comments, and concerns.
- Improved public communications materials to include more two-way information sharing (i.e., inclusion of answers to common questions community members frequently ask about drills).
- Added additional environmental monitoring data reports to the website, focused on emission types and points, concentrations and licence release limits.
- Increased engagement with real estate associations and developers in close proximity to the facility.
- Added banners along the fence line to advertise more about what BWXT NEC does in Peterborough and how to connect with the team.
- Expanded media engagement and outreach to ensure contacts information is available and stories about BWXT NEC are accurate and informative.
- Improved the feedback process to ensure all input from community members is collected, tracked, and actioned to completion.

The following subsections provide more information about BWXT NEC's public engagement initiatives throughout 2021-2025.

4.1.1 Employee/Internal Communications

BWXT NEC uses a variety of means to engage its ~400 employees in Peterborough. The company uses the employee portal (intranet), electronic bulletin boards, email alerts, and printed communications to issue company news, executive blogs, and general business updates. Open communication is important to BWXT's leadership team, and employees are encouraged to contact leadership throughout the year with questions.

4.1.2 Government Stakeholders

BWXT NEC recognizes the importance of building and maintaining relationships with all levels of government in the communities in which it operates and proactively seeks to engage local elected officials to ensure representatives are aware of BWXT NEC's operating activities in Peterborough.

BWXT NEC hosted several community leaders at the Peterborough facility between 2021-2025, and shared monthly electronic updates with these representatives.

- In 2021, offers to meet were extended to MP Ferreri, MPP Smith and Mayor Therrien. MP Ferreri toured the facility during a media event. A virtual meeting was held with MPP Smith.
- In 2022, offers to meet were extended to MP Ferreri, MPP Smith, Mayor Therrien and Peterborough Council. Virtual meetings were held with MPP Smith and MP Ferreri.
- In 2023, offers to meet were extended to MP Ferreri, MPP Smith, Mayor Leal and Peterborough Council. Mayor Leal and representatives from Invest Peterborough visited for a meeting and tour.

- In 2024, offers to meet were extended to MP Ferreri, MPP Smith, Mayor Leal and Peterborough Council. Mayor Leal attended and provided opening remarks at BWXT NEC's event with Innovation Cluster. During the Peterborough Day at Queen's Park event, BWXT NEC representatives met Warden Clark. Shortly after, Warden Clark and representatives from Peterborough County visited for a meeting and tour. MP Ferreri also visited for a meeting and tour.
- In 2025, BWXT NEC connected with MP Harrison, MPP Smith, and Mayor Leal and Peterborough Council, with offers to meet and tour. MPP Smith visited for a meeting and tour and a meeting and tour was held with Mayor Leal and representatives from Economic Development. A meeting was held with MP Harrison at her office. BWXT NEC is in the process of coordinating a tour with MP Harrison and Peterborough Council.

BWXT NEC will continue to keep elected officials informed of updates and will continue to work to meet with these community stakeholders.

4.1.3 Indigenous Relations

BWXT in Canada (which includes BWXT NEC) joined the Canadian Council for Indigenous Business (CCIB) in 2017 and is committed to building and sustaining positive relationships with Indigenous communities. BWXT is participating in the CCIB's Partnership Accreditation in Indigenous Relations (PAIR) certification program and is currently PAIR-Committed. BWXT Canada has a public commitment and policy and an internal Indigenous Relations Committee that meets regularly to review objectives outlined in the PAIR criteria as the company works to find ways to increase Indigenous cultural awareness and strengthen its ties with Indigenous communities. In July 2024, BWXT introduced an Indigenous Relations Roadmap for the company's operations in Canada. The Indigenous Relations Roadmap is a leadership guide to advancing Indigenous Truth and Reconciliation across the business in an aligned and meaningful way. In September 2024 BWXT's Indigenous Relations Roadmap Oversight Committee was established to oversee the implementation of the Indigenous Relations Roadmap. More information about BWXT's Roadmap can be found on BWXT NEC's [website](#).

Between 2021-2025, BWXT NEC made efforts to engage with The Williams Treaties (Alderville, Curve Lake, Hiawatha, Scugog Island, Beausoleil, Georgina Island and Rama) and the Peterborough and District Wapiti Métis Council.

- In 2021, BWXT NEC met virtually with representatives from Curve Lake First Nation throughout the year. At some of these meetings, both the Chief of Curve Lake First Nation and President of BWXT in Canada were present to discuss community priorities and learn about progress made in the relationship between Curve Lake First Nation and BWXT NEC. At the remaining meetings, Curve Lake First Nation would provide an update on behalf of the community and BWXT NEC would provide an update on behalf of the company. Topics of interest discussed at these meetings include environmental monitoring, community support, future events, operations in Peterborough and Toronto, Indigenous relations progress, and more. BWXT NEC also met virtually with representatives from IBA Braiding that were representing Scugog Island First Nation. This meeting was to provide an overview of BWXT NEC and find ways to connect and support the Scugog Island First Nation community. Additionally, representatives from BWXT NEC met virtually with council members from the Métis Nation of Ontario Peterborough & District Wapiti Métis Council to provide an overview of operations, update on current events and news and answer questions. The President of the Métis Nation of Ontario Peterborough & District Wapiti Métis Council also provided an update to BWXT NEC on recent news from the community. BWXT NEC sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of

Ontario Peterborough & District Wapiti Métis Council for COVID-19 relief. BWXT NEC also sponsored Curve Lake First Nation's Heritage and Archaeological Liaison Training Program and provided capacity funding for engagement.

- In 2022, BWXT NEC met virtually with representatives from Curve Lake First Nation throughout the year. At some of these meetings, both the Chief of Curve Lake First Nation and President of BWXT in Canada were present to discuss community priorities and learn about progress made in the relationship between Curve Lake First Nation and BWXT NEC. At the remaining meetings, Curve Lake First Nation would provide an update on behalf of the community and BWXT NEC would provide an update on behalf of the company. Topics of interest discussed at these meetings include environmental monitoring, community support, future events, operations in Peterborough and Toronto, Indigenous relations progress, and more. BWXT NEC also met virtually with representatives from IBA Braiding that were representing Scugog Island First Nation. This meeting was to provide an overview of BWXT NEC and find ways to connect and support the Scugog Island First Nation community. BWXT NEC sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council for COVID-19 relief. BWXT NEC also sponsored Curve Lake First Nation's Heritage and Archaeological Liaison Training Program and provided capacity funding for engagement.
- In 2023, BWXT NEC met virtually with representatives from Curve Lake First Nation throughout the year. During the meetings Curve Lake First Nation representatives would provide an update on behalf of the community and BWXT NEC would provide an update on behalf of the company. Topics of interest discussed at these meetings include environmental monitoring, community support, future events, operations in Peterborough and Toronto, Indigenous relations progress, and more. Representatives from Curve Lake First Nation visited BWXT NEC for a meeting and tour and hosted BWXT NEC for a community cultural visit to Petroglyphs Provincial Park. BWXT NEC hosted 50 grade nine Indigenous students along with the Organization for Economic Co-operation Development (OECD) and the Nuclear Energy Agency (NEA), in partnership with the CNSC and Trent University for a tour and also attended Curve Lake First Nations Energy Alternate Routes Fair and Harvesters Gathering. BWXT NEC sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council. BWXT NEC also sponsored Curve Lake First Nation's Annual Pow Wow and provided capacity funding for engagement.
- In 2024, BWXT NEC met virtually with representatives from Curve Lake First Nation throughout the year. During the meetings Curve Lake First Nation representatives would provide an update on behalf of the community and BWXT NEC would provide an update on behalf of the company. Topics of interest discussed at these meetings include environmental monitoring, community support, future events, operations in Peterborough and Toronto, Indigenous relations progress, and more. In March, representatives from BWXT NEC met with Curve Lake First Nation's Economic Development Committee to provide information about a potential business opportunity. In August, BWXT NEC held its annual soil sampling campaign and two representatives from Curve Lake First Nation's Consultation Department attended along with three of their summer students. After the sampling occurred, the group was provided a tour of the Peterborough facility. Representatives from Curve Lake First Nation's Consultation Department also attended BWXT NEC's Community Information Event in October. Curve Lake First Nation hosted representatives from BWXT NEC for a community cultural visit in November. BWXT NEC representatives also attended Curve Lake First Nations Energy Alternate Routes Fair. BWXT NEC sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of Ontario

Peterborough & District Wapiti Métis Council. BWXT NEC also sponsored Curve Lake First Nation's Annual Pow Wow and Heritage and Archaeological Liaison Training Program and provided capacity funding for engagement.

- Throughout 2025, BWXT NEC met virtually with representatives from Curve Lake First Nation. During the meetings Curve Lake First Nation representatives would provide an update on behalf of the community and BWXT NEC would provide an update on behalf of the company. Topics of interest discussed at these meetings include environmental monitoring, community support, future events, operations in Peterborough and Toronto, Indigenous relations progress, and more. In March, BWXT NEC hosted Chief Knott and representatives from Curve Lake First Nation's Consultation Department for a meeting and tour. In May, BWXT NEC hosted Chief Simpson and representatives from Alderville First Nation's Consultation Department for a meeting and tour. Discussions focused on potential collaborative opportunities. We look forward to further discussions in 2026. In August, BWXT NEC held its annual soil sampling campaign and one representative from Curve Lake First Nation's Consultation Department attended. BWXT NEC representatives attended Curve Lake First Nations Energy Alternate Routes Fair. BWXT NEC sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council. BWXT NEC also sponsored Curve Lake First Nation's Annual Pow Wow and provided a donation to the food bank. BWXT NEC also provided capacity funding for engagement. BWXT NEC hosted a beading workshop for employees with a local Métis woman who was connected through the Métis Nation of Ontario Peterborough & District Wapiti Métis Council.

BWXT NEC looks forward to continuing to engage with and find opportunities to support The Williams Treaties (Alderville, Curve Lake, Hiawatha, Scugog Island, Beausoleil, Georgina Island and Rama) and the Peterborough and District Wapiti Métis Council (once they have resumed).

4.1.4 Community Relations

BWXT NEC is committed to timely and transparent communication with the Peterborough community and works to ensure there is open, two-way communication and awareness of BWXT NEC's operating activities. Throughout 2021-2025, BWXT NEC utilized a variety of communication channels to provide information to neighbours, including electronic email updates (which includes any interested member of the public), fence banners, newsletters, mailers, social media, and targeted advertisements. Community members can sign up to join BWXT NEC's email updates anytime by contacting the company at questions@bwxt.com or by submitting their info by clicking to our [online form](#).

4.1.4.1 Tours & Presentations

BWXT NEC recognizes the importance of building and maintaining relationships with the community in Toronto. At community events, visitors can sign-up to be added to BWXT NEC's contact list to receive updates throughout the year and to indicate interest in a tour.

Facility tours and presentations help community members better understand our business and provide opportunities for in-person discussion and feedback. To additionally allow community members to see our operations, a virtual tour of the fuel bundle manufacturing was released in 2021 and can be found on BWXT NEC's [website](#) and [YouTube](#).

Throughout 2021-2025, BWXT NEC engaged with many community members, groups and organizations, with the primary purpose of sharing information and addressing concerns.

- In 2021, there was one small group of media representatives and elected officials that toured the site in November during a media event for a contract announcement. A community webinar was held to provide an opportunity for community members to learn about BWXT NEC and engage with their questions.
- In 2022, one facility tour was held with representatives from Anishnabek Nation and Curve Lake First Nation. A community webinar was held to provide an opportunity for community members to learn about BWXT NEC and engage with their questions.
- In 2023, four facility tours were held (Mayor Leal with CEO of Invest Peterborough and their staff, Curve Lake First Nation, grade nine Indigenous students along with the Organization for Economic Co-operation Development (OECD) and the Nuclear Energy Agency (NEA), in partnership with the CNSC and Trent University, and Professional Engineers Ontario Peterborough Chapter). BWXT NEC also attended Curve Lake First Nations Energy Alternate Routes Fair and Harvesters Gathering.
- In 2024, five facility tours were held (Community Liaison Committee, Vice Principal from Prince of Wales Public School, Warden Clark and representatives from Peterborough County, Curve Lake First Nation consultation and summer students, and MP Ferreri. BWXT NEC also attended Peterborough Day at Queen’s Park, Curve Lake First Nation’s Energy Alternate Routes Fair, and presented at a Prince of Wales Public School Parent Council meeting.
- In 2025, eight facility tours were held (Community Liaison Committee, Prince of Wales Public School Parent Council, Alderville First Nation, Curve Lake First Nation, MPP Smith, Peterborough & Kawartha Chamber of Commerce, Mayor Leal and Peterborough Economic Development, community members). The community member tour was a new addition in 2025 and was offered to all subscribers of BWXT NEC’s Peterborough email list. Ten community members attended the tour. BWXT NEC attended Curve Lake First Nations Energy Alternate Routes Fair and presented to members at a Rotary Club of Peterborough meeting.

4.1.4.2 Community Events

BWXT NEC hosts and attends community events as they create a platform for the exchange of information between the company and community members. These events help to build positive relationships within the community and demonstrate transparency and openness to discussion.

Senior leaders and department experts attend our community events and provide information about BWXT NEC’s operations, safety, licensing, community outreach, and more. At our events, we ensure we have a variety of information materials, visuals, and takeaways for community members to ensure information is readily available. Visitors are encouraged to sign up to join BWXT NEC’s email contact list and indicate their interest in a tour.

- In 2021 and 2022, due to the pandemic, community webinars were held in lieu of our traditional in-person event format. The 2021 live webinar saw 27 participants and the 2022 live webinar saw 13 participants. BWXT NEC representatives answered questions for over 30 minutes on both the 2021 and 2022 webinars and throughout each event, viewers could submit their questions in the comment section and BWXT NEC would address these questions live in the video feed.
- In 2023, a community webinar was held. The 2023 live webinar saw 11 participants. BWXT NEC representatives answered questions for over 30 minutes. Viewers could submit their

questions in the comment section and BWXT NEC would address these questions live in the video feed. Recordings from the 2021, 2022 and 2023 webinars can be found on BWXT NEC's website.

- In 2024, a Community Information Event was held at the McDonnell Street Community Centre. Approximately 18 community members attended the event. An event was also held with Innovation Cluster to announce a collaboration with BWXT NEC.
- In 2025, BWXT NEC coordinated a Community Connect Booth at Lansdowne Place for two days. Over the course of the two days, company representatives were able to engage with over 115 community members. BWXT NEC also participated in the Living Well Senior Showcase and met with over 150 community members. Additionally, BWXT NEC held a Community Connect Information Session at the Peterborough parking lot. Approximately 25 community members attended the event. An event was also held with Innovation Cluster to inform community members about nuclear medicine advancements and innovations at BWXT NEC.

BWXT NEC issues invitations to community events through a multipronged approach that includes mailers, social media advertisements, website news, and email invitations to subscribers.

Throughout 2021-2025, the majority of questions that were posed during these events focused on uranium, beryllium, climate change, environmental monitoring, radiation detection and protection, community support and communication, and job opportunities.

4.1.4.3 Community Newsletters, Email Updates, Postcard Mailers and Brochures

Community Newsletters: BWXT NEC distributes community newsletters as a tool to share information with the local Peterborough community about the company's operations, environmental monitoring, CNSC licence, events, and activities in the community. Community newsletters are mailed to neighbours in the surrounding community, posted on BWXT NEC's [website](#) for download, shared on social media, and emailed to subscribers. Three newsletters were mailed to the Peterborough community each year in 2021 and 2022, and two newsletters were mailed in 2023. In 2024, BWXT NEC expanded the newsletter format to include more information. With this expanded format, two newsletters were issued each year in 2024 and 2025. Each newsletter is mailed to approximately 5,000 neighbours in Peterborough, a key improvement from the previous licensing period. The 2024 Fall/Winter newsletter was not mailed due to the Canada Post strike. To ensure community members were provided the newsletter, BWXT NEC placed a targeted social media advertisement which obtained over 10,500 views. Newsletter content is developed from community feedback, questions and concerns, CLC feedback and suggestions, noteworthy news about BWXT NEC's environmental monitoring, licensing, community engagement and more. Each newsletter includes contact information and an overview of BWXT NEC's Peterborough operations.

Email Updates: BWXT NEC sends regular email updates to subscribers as another tool to share information and engage with the community. At the end of 2020, BWXT NEC began using Constant Contact for sharing email updates. This platform allowed for more formal looking information sharing, contact tracking and management, link clicks and downloads, and provides the ability to use other tools like built in surveying. The platform is also easy for new subscribers to join. The Peterborough contact list currently has approximately 200 subscribers and this list has grown over time since beginning in 2020. Community members can sign up to join BWXT NEC's email updates anytime by contacting the company at questions@bwxt.com, signing up on our [website](#), or by submitting their information to our [contact form](#). Topics in email updates include environmental monitoring, information about beryllium, uranium and radiation, corporate giving and volunteerism, community

event and tour invitations, links to learn more, Indigenous relations progress, regulatory dates and news, Community Liaison Committee recruitment, community survey details, newsletters, and more. On average, approximately 12 email updates were issued each year in 2021-2025 to Peterborough community members. Each message included an introductory note from one of the key Public Information & Disclosure Program contacts and contains contact information and details about BWXT NEC.

Postcard Mailers: BWXT NEC primarily uses mailed postcards as an additional outreach method to invite community members to participate in an event or share information on a specific topic such as Community Liaison Committee, advanced notice of drills, and community surveying. On average, two mailers are issued to the Peterborough community each year. The distribution is the same as our community newsletters and information that is included in a mailer is also posted on BWXT NEC's website and social media.

Information Brochures: BWXT NEC maintains public information brochures which are updated annually when new information is available from the Annual Compliance Report. These brochures are available in during events and are also posted on BWXT NEC's [website](#). Brochures are available at the guardhouse on Monaghan Road.

4.1.4.4 Community Volunteerism & Investment

BWXT NEC, believes in fostering healthy and vibrant communities. Through our initiative, BWXT Volunteer Strong, our employees have the opportunity to help build stronger communities where they live and work by volunteering their time and expertise to local causes.

- In 2021 and 2022, employees held a spring fundraiser and fall food drive for Kawartha Food Share, contributed to a holiday gift collection for Kinark Children's Services, donated blood at Canadian Blood Services during the December Days of Giving Campaign, participated as judges at the virtual Peterborough Regional Science Fair and Fleming College Innovation & Technology Showcase, volunteered at the Bruce Power/Region of Peel Vaccination Hub in Brampton, and provided funding to Peterborough Regional Health Centre (PRHC) through the charitable parking program.
- In 2023, employees contributed to an online fundraiser for the Youth Emergency Shelter, participated as judges at the Peterborough Regional Science Fair, fundraised for and participated in the Peterborough's Dragon Boat Festival, contributed to a holiday gift collection for Kinark Children's Services, and provided funding to Peterborough Regional Health Centre (PRHC) through the charitable parking program.
- In 2024, employees held a fundraiser for the Youth Emergency Shelter, participated as judges at the Peterborough Regional Science Fair, assisted Ontario Federation of Anglers and Hunters at their Under the Lock Fishing Derby by helping local students learn to fish, fundraised for and participated in Peterborough's Dragon Boat Festival, volunteered at the Youth Emergency Shelter to paint their three-floor staircase and hallways, held a collection to help restock Prince of Wales Public School's breakfast program, built and installed new garden boxes at Prince of Wales Public School, donated blood at Canadian Blood Services as part of their December Days of Giving campaign, coordinated an Angel Tree collection and bake sale in support of Kinark Child and Family Services, and provided funding to Peterborough Regional Health Centre (PRHC) through the charitable parking program.
- In 2025, employees held a fundraiser for the Youth Emergency Shelter, participated as judges at the Peterborough Regional Science Fair, participated in Peterborough's Dragon Boat Festival, participated in a career day at Prince of Wales Public School, held a

community clean up, participated in a student career coaching event at Holy Cross Secondary School, supported the Peterborough Folk Festival with event setup, repainted some of the playground lines at Prince of Wales Public School, held a fundraiser for the Peterborough Humane Society, participated in a Junior Achievement Day, held a fundraiser to purchase holiday gifts for local seniors, provided funding to Peterborough Regional Health Centre (PRHC) through the charitable parking program, and collected gift donations to support 76 children in the community through an annual Angel Tree collection in support of Kinark Child and Family Services.

In addition to providing volunteer hours, BWXT NEC supports a range of community-based groups/initiatives that help improve community life through charitable giving:

- In 2021, BWXT NEC provided three bursary awards for students in the School of Trades and Technology program at Fleming College, sponsored the virtual PRHC Dragon Boat Festival, sponsored the virtual Peterborough Regional Science Fair and provided funding for awards, supported Adam Scott Collegiate and Vocational Institute, Kenner Collegiate Vocational Institute, and Crestwood Secondary School through student awards in STEM, provided funding to Kawartha Food Share as part of a fundraiser in the fall, sponsored the Métis Nation of Ontario's Annual General Assembly and provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council for COVID-19 relief, sponsored the Five Counties virtual Winterfest event, provided funding to the Community Counselling Resource Centre, provided funding to Kinark Children's Centre for holiday gifts for children and funding to Big Brothers Big Sisters Peterborough for holiday hampers of essential items for community members in need, and sponsored Curve Lake First Nation's Heritage and Archaeological Liaison Training Program.
- In 2022, BWXT NEC provided three bursary awards for students in the School of Trades and Technology program at Fleming College and three bursary awards to Trent University in the Computer Science program, sponsored the PRHC Dragon Boat Festival, provided a donation to PRHC for their Cancer Care program, sponsored the Peterborough Regional Science Fair and provided funding for awards, supported Adam Scott Collegiate and Vocational Institute, Kenner Collegiate Vocational Institute, and Crestwood Secondary School through student awards in STEM, provided funding to Kawartha Food Share, sponsored the Métis Nation of Ontario's Annual General Assembly, provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council, sponsored the Five Counties Winterfest event, provided funding to Big Brothers Big Sisters Peterborough for holiday hampers, and sponsored Curve Lake First Nation's Heritage and Archaeological Liaison Training Program.
- In 2023, BWXT NEC provided three bursary awards for students in the School of Trades and Technology program at Fleming College and three bursary awards to Trent University in the Computer Science program, sponsored the PRHC Dragon Boat Festival, provided a donation to PRHC for their Cancer Care program, sponsored the Peterborough Regional Science Fair and provided funding for awards, supported Adam Scott Collegiate and Vocational Institute, Kenner Collegiate Vocational Institute, and Crestwood Secondary School through student awards in STEM, sponsored a fish at the Ontario Federation of Hunters and Anglers Fishing Derby, provided funding to Kawartha Food Share, sponsored the Métis Nation of Ontario's Annual General Assembly, provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council, sponsored the Five Counties Winterfest event, provided funding to Big Brothers Big Sisters Peterborough for holiday hampers, and sponsored Curve Lake First Nation's Annual Pow Wow.

- In 2024, BWXT NEC provided three bursary awards for students in the School of Trades and Technology at Fleming College, three bursary awards to Trent University in the Computer Science program, and three bursary awards to Ontario Tech University, sponsored Peterborough's Dragon Boat Festival, sponsored the Peterborough Regional Science Fair and provided funding for awards, supported Kenner Collegiate Vocational Institute through student awards in STEM, sponsored a fish at the Ontario Federation of Anglers and Hunters Fishing Derby, sponsored the Métis Nation of Ontario's Annual General Assembly, provided funding to the Métis Nation of Ontario Peterborough & District Wapiti Métis Council, sponsored the Five Counties Summer BBQ, provided funding to Kinark Child and Family Services for holiday gifts for children in need, sponsored Curve Lake First Nation's Annual Pow Wow, and provided funding to support Curve Lake First Nation's archaeological training program.
- In 2025, BWXT NEC provided funding to Otonabee Valley Public School to support their breakfast program, sponsored the Peterborough Regional Science Fair and provided funding for student awards, provided a donation to Prince of Wales Public School to purchase STEM books and resources for their library, provided three bursary awards for students in the School of Trades and Technology at Fleming College, three bursary awards to Trent University in the Computer Science program, and three bursary awards to Ontario Tech University, sponsored PRHC's Dragon Boat Festival, sponsored a fish at the Ontario Federation of Anglers and Hunters Fishing Derby, provided a donation to the Rotary Club of Peterborough's Rotary Environmental Innovators Fund, provided a donation to Make-A-Wish, sponsored a Junior Achievement student day, provided a donation to Peterborough Folk Festival, supported Kenner Collegiate Vocational Institute and Adam Scott Collegiate Vocational Institute through student awards in STEM, and provided a donation to the Rotary Club of Peterborough's Rotary Accessible Playground Project at Riverview Park and Zoo.

4.1.5 Peterborough Community Liaison Committee (CLC)

The Peterborough CLC was established in 2020 and meets three to four times per year in the evening. The CLC is a forum for the exchange of information between the community and BWXT NEC and allows members to bring forward questions, discuss concerns and identify opportunities to improve community relations. CLC members provide input on topics to highlight in newsletters and communications, event planning, website updates, community initiatives and more. Their input is valuable in guiding communications efforts with community members. BWXT NEC ensures that representatives from senior leadership as well as subject matter experts attend each regular meeting.

Upon joining the CLC, each member is provided an orientation session and tour (note that tours did not occur during the pandemic). The CLC also has a Terms of Reference which each member agrees to upon their acceptance of their membership. This document is reviewed annually and updated when required with input from CLC members. The Terms of Reference provides guidance on the structure and purpose of the CLC, along with conduct and length of membership and renewal. At the end of each year, CLC members are asked to provide feedback via a survey form. Input provided through this form is discussed at the year-end review meeting. This allows CLC members to provide anonymous feedback and suggestions to the company. In 2021 the role of a CLC Member Co-Chair was implemented to ensure CLC members could have more opportunity to collaborate on agenda topics and submit anonymous suggestions on behalf of the CLC. Since implementation, this Co-Chair role has been occasionally filled when a CLC member is interested. BWXT NEC continues to offer the position to CLC members, however we have found the CLC to be quite open and honest with their feedback and suggestions even without this role.

- In 2021, the CLC had a membership of eight members (including representatives from Prince of Wales Public School, Peterborough Public Health, Métis Nation of Ontario Peterborough & District Wapiti Métis Council, and Peterborough & the Kawarthas Economic Development). One member left the CLC early in the year due to previous commitments, bringing the total membership to seven members in 2021. During the year, CLC members provided feedback on advertising, target audience, website content, guest speakers, drill notices, community support, participation in soil sampling, monitoring data, community engagement and Indigenous cultural awareness training. BWXT NEC launched a recruitment campaign in the fall of 2021 to attract new members. Letters requesting members were sent to the following organizations: GreenUP, Peterborough Fire Services, and Otonabee Region Conservation Authority. Four applications were received, and all were accepted upon review.
- In 2022, the CLC had a membership of eleven members (including representatives from Prince of Wales Public School, Peterborough Public Health, Métis Nation of Ontario Peterborough & District Wapiti Métis Council, and Peterborough & the Kawarthas Economic Development). Two members left the CLC mid-year, and one did not attend any of the regular meetings, bringing the total membership to eight members in 2022. BWXT NEC coordinated a workshop with the Canadian Centre for Science Communications early in 2022 of which three CLC members attended. The purpose of this workshop was to learn more about how to effectively communicate science information to the general public. BWXT took a number of actions during the workshop to make improvements to website content and communications materials, all of which were implemented. During the year, CLC members provided feedback on website content, Indigenous engagement and efforts, public education on uranium and beryllium, public information language, and newsletter content. BWXT NEC launched a recruitment campaign in the fall of 2022 to attract new members. No applications were received.
- In 2023, the CLC had a membership of eight members (including representatives from Peterborough Public Health and Métis Nation of Ontario Peterborough & District Wapiti Métis Council). During the year, CLC members provided feedback on community events and website information on environmental monitoring. An extra meeting was held by request of the CLC to have a detailed presentation and discussion about BWXT NEC's environmental monitoring with the Canadian Nuclear Safety Commission and the Ministry of Environment Conservation and Parks. BWXT NEC launched a recruitment campaign in the fall of 2023 to attract new members. Five applications were received, and four were accepted upon review.
- In 2024, the CLC had a membership of five members (including representatives from Peterborough Public Health, Moving Media, and Big Brothers Big Sisters of Peterborough). One member left the CLC due role change at their organization, bringing the total membership to four members mid-late 2024. During the year, CLC members provided feedback on social media content, community support opportunities, website content, guest speakers and community events. BWXT NEC launched a recruitment campaign in the fall of 2024 to attract new members. Letters requesting members were sent to the following organizations: GreenUP, Peterborough Fire Services, Otonabee Region Conservation Authority, Fleming College, Trent University, Kawartha Land Trust, Peterborough and the Kawarthas Association of Realtors, Peterborough and the Kawarthas Home Builders Association, Prince of Wales Public School, and Peterborough Regional Health Centre. Eleven applications were received, and all were accepted upon review.
- In 2025, the CLC had a membership of twelve members (including representatives from Peterborough Public Health, Fleming College, Trent University, Prince of Wales Public

School, and Peterborough & The Kawarthas Home Builders Association). During the year, CLC members provided feedback on community support and engagement, drill notifications to community members, website content, event opportunities, guest speakers, community surveying, and Indigenous engagement. BWXT NEC launched a recruitment campaign in the fall of 2025 to attract new members. Letters requesting members were sent to the following organizations: GreenUP, Peterborough Fire Services, Peterborough Police Services, Otonabee Region Conservation Authority, Peterborough and the Kawarthas Association of Realtors, and Peterborough Regional Health Centre. Three applications were received, and one was accepted upon review.

Guest speakers are occasionally invited to CLC meetings to provide additional information on specific topics of interest. The CLC provides input on guest speakers and topics for discussion. Between 2021-2025, the following guest speakers attended CLC meetings: Canadian Nuclear Safety Commission, Ministry of Environment Conservation and Parks, Arcadis, BWXT Medical, Laurentis Energy Partners, Ontario Power Generation, Canadian Nuclear Association, Nuclear Waste Management Organization, and Creative Fire.

CLC meeting records are taken during meetings and shared with CLC members for review. The final copies are posted on BWXT NEC's [website](#).

BWXT NEC proactively recruits for new CLC members on an annual basis in the fall and promotes recruitment through a variety of channels such as, community newsletters, website, social media, postcard mailers and fence banners. CLC applications are available at the fall/winter events and CLC members are encouraged to share with their networks to encourage new members to join. Specific organizations and groups are invited to join the CLC via letter invitation. We will continue to engage with community to expand to include more members and representatives from key community organizations.

4.1.6 Website

BWXT NEC has a dedicated public information website, nec.bwxt.com. The website provides information about the company's operations, safety and compliance, environmental monitoring, Public Disclosure Protocol, community outreach, Indigenous engagement, and events/activities that can be accessed by members of the public.

BWXT NEC continues to see increased engagement on the website and has made significant upgrades throughout 2021-2025. Throughout each year information is updated to ensure the website remains relevant and current. As feedback is received, improvements are made to address questions and concerns from community members.

In 2022, BWXT NEC held a workshop with CLC members and the Canadian Centre for Science Communications. The purpose of this workshop was to learn more about how to effectively communicate science information to the general public. As a result of the workshop, BWXT NEC took a number of actions to make improvements to website content and communications materials (include more safety messaging and supporting information, improve website language to be more user friendly, add more photos of employees with the products we manufacture, simplify tables and add more information about emissions). All of these actions were implemented that year.

In 2025, BWXT's Brand and Marketing team completed an upgrade to the company websites. The nec.bwxt.com site was part of this upgrade, and the overall website was re-branded and updated to a new platform. The website remained similar in navigation and information and provided an opportunity to leverage feedback on the new content. BWXT NEC held a website feedback session with CLC members where each member was asked to review the new webpages and content and provide suggestions for improvement. CLC members noted that their overall impression of the

website and quality of content was good and highlighted that the website was easy to navigate. Each member also rated website subpages and most were very effective. One CLC member noted that there should be a page dedicated to radiation and nuclear power. It was explained to the member that a dedicated page exists, but that it can be reviewed for improvements. One member shared there should be more information about nuclear medicine, projects happening in the non-licensed part of the Peterborough site, and student engagement. Overall, the CLC was impressed and noted there was a lot of great information on the website.

4.1.7 Public Inquiries & Opinion

BWXT NEC utilizes multiple avenues for communication with members of the public. BWXT NEC has a dedicated website (nec.bwxt.com), email (questions@bwxt.com) and toll-free telephone number (1.855.696.9588). These contact details appear on BWXT NEC's website and on all information products. The phone and email are available 24/7 and monitored daily. All public inquiries are responded to in a timely manner and logged and actions are tracked to completion.

Feedback and questions from the public are solicited to understand current public opinion. Feedback is collected through a variety of methods, such as through meetings, tours, phone calls, emails, social media comments, public events, volunteer initiatives, CLC members, employees and occasionally opinions are printed in local media and members of the public are interviewed in local stories. We utilize feedback to measure the effectiveness of our program.

Between January 1, 2021, and December 31, 2025, many emails and phone calls were received to BWXT NEC's public channels. Majority of these messages were spam, questions for finance or purchasing, community giving inquiries, job seekers, and agencies seeking employment verifications. All emails and calls to the information line were appropriately handled and addressed.

- In 2021, BWXT NEC received 682 emails and 181 calls. Six emails were received from community members. One was a request for a tour, one was a request for the Emission Summary and Dispersion Modelling tables for both facilities, one was a concern about parking lot lighting, request for information on water testing, one was a request for information about water testing, one was a concern about garbage on the surrounding property, and one was from a potential new neighbour who wanted more information before moving into the neighbourhood. Three phone calls were received from community members. One was a question from a community member about whether they could have the skids from the property, one was a request for GE regarding filming on the railway, and one was a potential new neighbour who wanted more information before moving into the neighbourhood.
- In 2022, BWXT NEC received 1473 emails and 113 calls. One email was received from a community member that was concerned about the garbage in the surrounding areas near Prince of Wales Public School. Five phone calls were received from community members. One was from a parent of a student at Prince of Wales Public School who was concerned about the student parking lot area at the school, one was a question asking if BWXT NEC sells CANDU reactors, one was a noise complaint about the CNSC's IEMP air monitoring device, one was a request for a contact at GE to discuss fencing concerns, and one was a complaint about the community webinar as the person did not have computer access.
- In 2023, BWXT NEC received 1503 emails and 228 calls. There were no emails or calls from community members in Peterborough.
- In 2024, BWXT NEC received 1573 emails and 251 calls. Four emails were received from community members. One was a local student requesting recycled batteries, two were requests for a tour, one was a request to be added to the email list and concerns about

anonymity and the draw component of the community survey, and one was a request to be added to the email list. Three phone calls were received by community members. One was a neighbour who had lost their bird, one was a request for assistance registering for our event with Innovation Cluster, and one was a question if RSVP was required for a community event,

- In 2025, BWXT NEC received 1047 emails and 227 calls. Three emails were received from community members. One was a local robotics team requesting information about corporate giving and two were requests for a tour. Three phone calls were received. One was a question whether BWXT NEC sells HEPA filters, one was a concern about vibration in their home which they thought was from our facility, and one was a question about alarms and sounds that may occur during a drill.

We continue to encourage community members to use these channels to contact our team with questions, comments, and concerns.

4.1.8 Community Surveying

BWXT NEC conducts community surveys to obtain feedback from community members, including strengths and key areas for improvement. BWXT NEC's first survey was organized in 2018 by Ipsos, an independent research firm. This survey provided BWXT NEC with baseline community feedback shortly after the acquisition of the company in December 2016. Subsequent surveys were conducted in 2020, 2022 and 2024 and survey results were shared publicly through BWXT NEC's communications channels. Copies of survey results are available on BWXT NEC's [website](#).

The objectives of surveys are as follows:

- Gain awareness, knowledge and familiarity of BWXT operations in the local community.
- Gauge impressions of BWXT as an organization, including attention to safety, community engagement, job creation, and more.
- Identify recall and awareness of BWXT communications in the community, if these have been made available to residents.

Survey methodology changed in 2024 when BWXT NEC removed the phone survey aspect, which was recommended by Ipsos, due to lack of landlines available for reach. The 2024 survey saw the highest participant response, but many were not as familiar due to an increase in targeted social media outreach, making it difficult to compare 2024 data to previous years.

In 2025, BWXT NEC discussed the topic of community surveying with CLC members to review previous survey results, obtain feedback, and determine the most effective path forward. It was suggested that BWXT NEC conduct alternate options to a survey. The idea of a focus group was discussed and CLC members noted there was potential connections locally to conduct this type of engagement. BWXT NEC is in the process of planning multiple focus groups with an independent research firm in early 2026. Details from these engagement sessions will be shared publicly when available.

4.1.9 Earned Media

BWXT NEC aims to respond to media inquiries in a timely manner provides the media with access to subject matter experts and facility tours when appropriate. Media events, press conferences and news releases are executed when required, and news releases are posted to the BWXT NEC website.

Print, broadcast and online (digital/social media) media coverage is closely monitored for stories about BWXT NEC on an ongoing basis. The purpose is to stay cognizant of any information about the company in near real time while measuring the amount and nature of media coverage. This permits BWXT NEC to be prepared to respond to any inquiries either internally or externally and helps BWXT NEC ascertain the prevailing attitudes of the public towards the operations.

Between January 1, 2021, to December 31, 2025, BWXT NEC's Peterborough facility was mentioned 38 times in the media.

- In 2021, BWXT NEC was mentioned in 11 articles, two opinion pieces and featured on local television twice. The tone of the majority of the news articles was negative and focused on concerns from community members related to fuel pellet manufacturing, soil sampling and legal action by Citizens Against Radioactive Neighbourhoods on the CNSC's decision for BWXT NEC's licence renewal. There was positive media coverage around an event held in November related to a contract announcement with Ontario Power Generation.
- In 2022 BWXT NEC was mentioned in eight news articles. The tone of the articles was neutral and focused on providing updates to community on the legal action by Citizens Against Radioactive Neighbourhoods on the CNSC's decision for BWXT NEC's licence renewal, IEMP results, soil sampling and the local election.
- In 2023, BWXT NEC was mentioned in one article that was focused on a new ice rink in the community. BWXT NEC was referenced as being located on the GE property.
- In 2024, BWXT NEC was mentioned in nine news articles. The tone of the articles were mostly positive. Three articles focused on the Innovation Cluster collaboration announcement, two focused on Prince of Wales Public School's garden box initiative, one was about employee participation in Shifting Gears and our workplace award, one was about the CNSC's confirmation that beryllium emissions do not pose a risk, one was about the CNSC's Independent Environmental Monitoring Program, and one was about the CNSC's uranium workers study timing.
- In 2025, BWXT NEC was mentioned in two news articles, one magazine and featured on local television twice. Two were focused on the positive impact of our operations in Ontario in nuclear power and nuclear medicine. One was on the fire alarm in September, one was on the employee donation to PRHC, and one was a reference about the BWXT NEC buildings in relation to GE Vernova's intent to demolish part of the property.

4.1.10 Social Media

In 2020, BWXT NEC launched dedicated Facebook and X social media channels to better engage with community members. Social media channels help BWXT NEC share information about activities with the public in a timely way. In 2024, BWXT's corporate division consolidated BWXT NEC's Facebook and X accounts to be inclusive of all BWXT's operations in Canada and provide communities with a greater understanding of the business. To pivot with this change, BWXT NEC began utilizing targeted social media advertising to share information with the community around the facility. In 2025, the Canada accounts were consolidated into BWXT's corporate account. To continue to pivot, BWXT NEC launched a dedicated Facebook Group in 2025. The purpose of this group is to share news with community members and provide an additional channel for two-way communication and feedback. BWXT NEC continues to work to expand the audience of this Facebook Group and encourage community members to join.

Targeted advertisements have become a reliable, impactful tool for BWXT NEC. Through these advertisements, BWXT NEC can reach specific audiences and locations and track views, comments,

link clicks and other engagements. The majority of the advertisements have comments and feedback which are logged and dispositioned by BWXT NEC. On average, BWXT NEC's targeted advertisements in Peterborough reach 17,850 community members with 180 link clicks – a much larger distribution compared to traditional paper mail. During situations where paper mail is not available (i.e., Canada Post strike), targeted advertisements are increased to reach a larger audience.

- In 2021, one targeted Facebook advertisement was used to share information about the community webinar.
- In 2022, one targeted Facebook advertisement was used to share information about the annual drill.
- In 2023, two targeted Facebook advertisements were used to share information about the community webinar and Community Liaison Committee.
- In 2024, six targeted Facebook advertisements were used to share information about soil sampling, annual drill, community event, community survey, Community Liaison Committee, and community newsletter.
- In 2025, seven targeted Facebook advertisements were used to share information about the new Facebook Group, two community events, soil sampling, annual drill, Community Liaison Committee, and one was used to encourage community members to subscribe to BWXT NEC's email updates.

4.1.11 Public Disclosure Protocol

BWXT NEC has a Public Disclosure Protocol in place that sets guidelines for providing timely information to interested members of the public and other stakeholders. This protocol and all public disclosures issued by BWXT NEC can be found on the company [website](#). This protocol's objectives are to provide information on licensed activities to persons living near the site, foster public awareness and provide a forum for community members to discuss issues and concerns related to the licensed facilities. The Public Disclosure Protocol is readily available for download as a PDF on BWXT NEC's [website](#).

Based on this protocol, BWXT NEC commits to:

- Maintaining two-way communication channels with the target audience to better understand and address comments, questions and concerns;
- Providing reporting on its website within 48 hours of unusual operational events that have the potential for offsite consequences or which may be of interest to the target audience;
- Providing timely reporting via its website on environmental events that trigger notification of the CNSC under Section 29 of the General Nuclear Safety and Control Regulations;
- Providing information to the target audience through BWXT NEC's website and/or other Public Information Program activities about significant operational changes or expansions that require an environmental assessment or amendments to our facility licence;
- Posting environmental monitoring results (relevant sections of Annual Compliance Reports) on its website;
- Consulting with stakeholders to determine the type of information, and method for information sharing regarding this Public Disclosure Protocol;

- Posting this Public Disclosure Protocol on the BWXT NEC website.

The following Public Disclosures were made between January 1, 2021, and December 31, 2025:

- January 28, 2021 – Sprinkler alarm was accidentally activated, with no sprinkler system activation, resulting in a response from Peterborough Fire Services. There was no health or safety risk to the public, environment or employees.
- March 29-June 24, 2021 – Fifteen false alarms were activated throughout this time period, resulting in response from Peterborough Fire Services. There were no fires or activations of the sprinkler system. During this time, work was being conducted on the city water supply resulting in transient pressures which activated the alarms. There was no health or safety risk to the public, environment or employees.
- March 14, 2023 – Water leaking in a piping tunnel under the plant was identified. The sources included city water from the single pass cooling water system along with parts wash water and floor wash water. This water was intended for discharge to the sanitary sewer and was instead seeping through the concrete into the ground under Building 21. Production was shut down, and the leak was repaired. A secondary leak was found in the same pipe where it connected to the sewer and production was again shut down for inspection and repair. All relevant authorities were informed, and there was no health or safety risk to the public, environment or employees.
- March 16, 2023 – Fire alarm was accidentally activated during maintenance on the sprinkler system in another building, resulting in response from Peterborough Fire Services. There was no health or safety risk to the public, environment or employees.
- March 29, 2023 – Notice to community members that Peterborough Police Services was visiting the facility for facility training and tours.
- April 9, 2025 – Water leaking in a floor trench was discovered. The water source was from the beryllium water treatment system and was caused by a failed sump pump at the effluent treatment system discharge. This water was intended for discharge to the sanitary sewer and was instead overflowing into the floor trench and seeping through concrete into the ground under Building 21. A sample was taken immediately following the release and confirmed beryllium concentration in the water was well below internal control level and international drinking water standards. The sump pump was inspected and repaired, and all relevant authorities were informed.
- June 3, 2025 – Notice to community members that Peterborough Police Services was visiting the facility for facility training and tours.
- September 25, 2025 – Fire alarm was activated in Building 21. All employees in the affected building were safely evacuated and were accounted for. Peterborough Fire Services examined the situation and confirmed there was no gas leak, no fire, and no release of radioactive materials. Following Peterborough Fire Services assessment, BWXT's Emergency Organization team reviewed the facility and concluded the site was safe for employees to return to work. Based on the assessment by Peterborough Fire Services and the site team, there was no risk to employees, the community or the environment.

During a CNSC inspection in 2024, one Notice of Non-Compliance was raised, noting that BWXT NEC should add a contact for the program to the Public Disclosure webpage and a PDF of the protocol. The primary contact for the program was added to the webpage and PDF file that was previously on the website, closing out this action.

4.2 Cost Recovery

BWXT NEC is current on its cost recovery payments to the CNSC.

4.3 Financial Guarantees

The Preliminary Decommissioning Plan (PDP) and associated decommissioning cost estimates are in place in accordance with CNSC regulatory requirements and applicable standards. The 2023 Peterborough and Toronto facility PDPs were reviewed against the criteria set in CNSC REGDOC-2.11.2, *Decommissioning* (January 2021), CNSC REGDOC-3.3.1, *Financial Guarantees for the Decommissioning of Nuclear Facilities and Termination of Licensed Activities* (January 2021), and CSA Standard N294-19, *Decommissioning of Facilities Containing Nuclear Substances* (November 2019). The PDP strategy and end-state objective of decommissioning is to release the site from regulatory control for industrial use or demolition of the structures.

In November of 2022, BWXT NEC submitted an updated PDP to CNSC staff, which was revised in August of 2023 and was accepted by CNSC staff in October of 2023. In 2024, the CNSC Commission accepted the revised financial guarantee amount, and BWXT put in place the required financial guarantee instruments to reflect these accepted amounts. The financial instruments remain valid in the format approved by the CNSC. The issuers of the financial guarantee instruments remain in good standing. The financial rating of the financial guarantee issuers were provided to the CNSC in March of 2025.

4.4 Improvement Plans and Future Outlook

BWXT NEC remains committed to continuously improve its EHS programs to improve efficiency and minimize risk to employees, the public and the environment. Facility operations are projected to be lower in 2026 due to the downtime for refurbishment of Pickering OPG's nuclear reactors.

5 CONCLUDING REMARKS

BWXT NEC Peterborough continues to operate its licensed activities in a safe and compliant manner, consistent with regulatory requirements and the conditions of the site licence. Performance across all safety and control areas has remained effective throughout the current licence term.

Results from radiation protection and environmental monitoring programs confirm that worker doses and public exposures remain well below regulatory limits, and effluent releases continue to demonstrate strong control of licensed activities. Programs such as ALARA, Environmental Management, and Emergency Preparedness remain well-established and are subject to ongoing review and continuous improvement.

Since the start of the current licence period, BWXT NEC Peterborough has implemented several enhancements to improve radiological controls, workplace safety, and environmental performance. These efforts demonstrate a strong commitment to the protection to workers, the public, and the environment.

Looking ahead, BWXT NEC Peterborough will continue to focus on sustaining regulatory compliance, implementing process and infrastructure improvements, and supporting a strong nuclear safety culture through training, engagement, and continuous improvement initiatives.