



**CMD 26-M13.1A**

Date: 2026-05-13

## **Supplementary Information**

## **Renseignement supplémentaire**

**Presentation from  
BWXT Nuclear Energy Canada Inc.**

**Présentation de  
BWXT Nuclear Energy Canada Inc.**

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**Mid-term update from BWXT Nuclear  
Energy Canada Inc. on licensed activities  
at its Toronto and Peterborough facilities**

**Mise à jour de mi-parcours sur les  
activités autorisées de BWXT Nuclear  
Energy Canada Inc. à ses installations de  
Toronto et de Peterborough**

**Commission Meeting**

**Réunion de la Commission**

May 2026

Mai 2026

A large, stylized graphic of the letter "X" is positioned on the left side of the slide. It is composed of multiple overlapping, glowing lines in shades of red, pink, and purple, creating a sense of motion and depth. The "X" is centered vertically and horizontally within the left half of the slide.

# BWXT Nuclear Energy Canada

## **Mid-Term Update**

### Peterborough & Toronto

### 2021-2025

Presenter: BWXT  
May 27, 2026

We respectfully acknowledge that we are gathered in Nogojiwanong, “the place at the end of the rapids,” which is the traditional territory of the Michi Saagiig Anishinaabeg, covered by the Williams Treaties.

We honour the stewardship and profound connection that the First Peoples have maintained with this land since time immemorial. We also acknowledge the urban Indigenous Peoples living across Turtle Island – First Nations, Inuit, and Métis – whose culture, traditions, and knowledge continue to shape and enrich this community.

BWXT is committed to advancing reconciliation through meaningful engagement with Indigenous Nations, supporting Indigenous participation in economic opportunities, and fostering respectful, long-term relationships grounded in mutual trust, accountability and learning.

We offer gratitude to the water, land, sky and all living beings who sustain us, and invite all who live, work, or visit here to consider your personal connection to this land and reflect on what it means to live in good relationship with it and its original caretakers.

# Agenda

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- 01** About BWXT Nuclear Energy Canada
- 02** Status of Our Licenses
- 03** Our Commitments:
  - Safe Operations
  - Continuous Improvement
  - Community and Indigenous Relations
- 04** Conclusion







# About BWXT Nuclear Energy Canada (BWXT)

# BWXT Commitment to Safety and Corporate Citizenship

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- BWXT is committed to conducting our operations in a safe, secure, and responsible manner.
- We make environmental and public safety a key part of our planning and decision-making.
- BWXT is dedicated to maintaining respectful, transparent, and constructive relationships with our neighbours, local communities, and Indigenous Nations.

# BWXT Toronto

## About

- Located at 1025 Lansdowne Avenue
- BWXT leases two buildings along Lansdowne Avenue and Brandon Avenue from GE Vernova
- Nuclear operations since 1955

## Operations

- Fuel pellet manufacturing

## 31 full-time employees

- 21 union employees
- 10 salaried staff





# BWXT Toronto – Pellet Production Process



Receiving



Blending



Compacting/Pressing



Sintering



Grinding



Inspection



Shipping



# BWXT Peterborough



## About

- Located at 1160 Monaghan Road
- BWXT leases four buildings along Monaghan Road from GE Vernova
- Nuclear operations since 1955

## Operations

- Fuel bundle assembly
- Manufacturing and engineering to support nuclear power and nuclear medicine

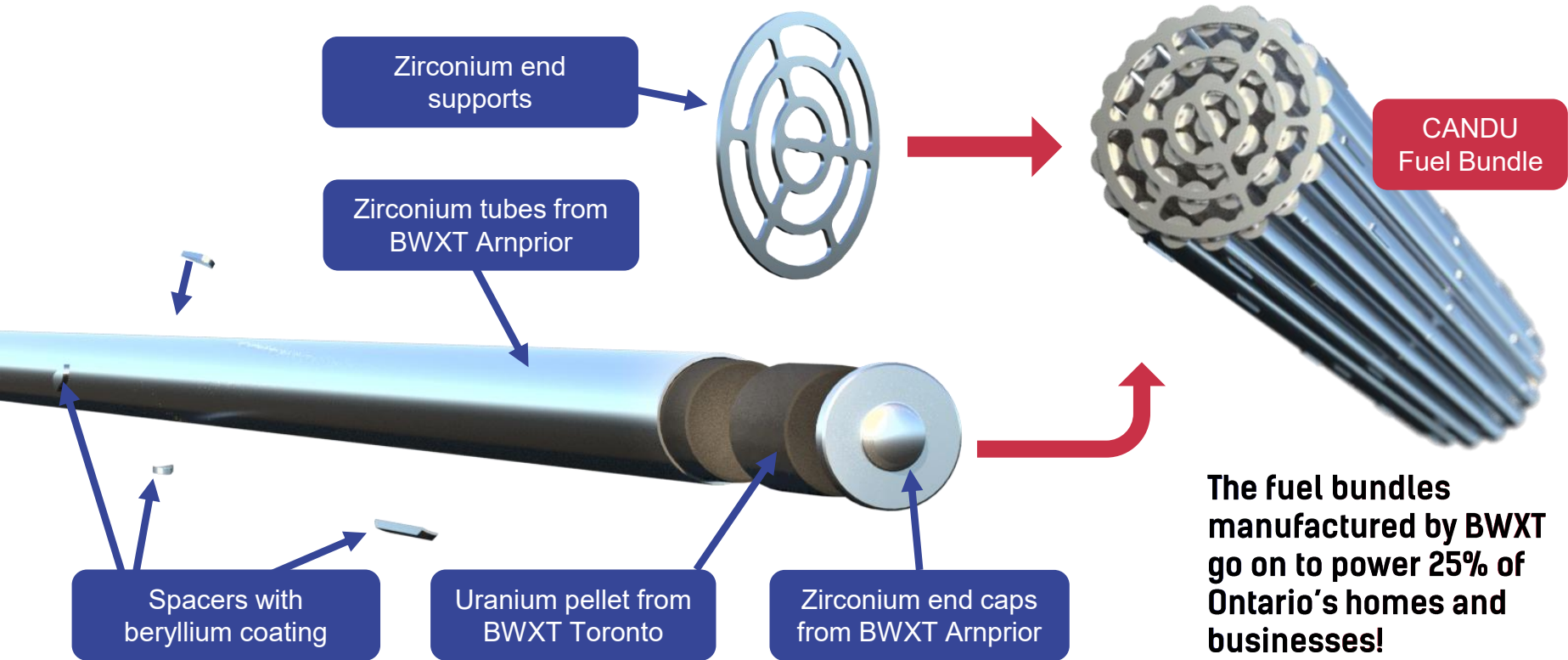
## Over 400 full-time employees

- 20% fuel bundle assembly
- 145 engineers
- 115 union employees
- 140 support staff



Aerial photo from Google Maps

# BWXT Peterborough – Fuel Bundle Production



# BWXT Peterborough – Nuclear Power and Nuclear Medicine

- Global leader in specialized nuclear equipment and nuclear medicine delivery.
- BWXT designed, built and installed two Target Delivery Systems for units 2 & 3 at Darlington NGS, now one of the world's largest medical isotope irradiation systems and a key producer of potentially life-saving isotopes.
- Multi-million-dollar investment into advancing the manufacture of Targets for the Target Delivery System – first designed for medical imaging and now being developed to support therapies for cancers such as prostate and liver cancer.







# Status of Operating Licenses

# Status of Operating CNSC Licenses

BWXT operates its Toronto and Peterborough facilities under two Class IB licenses issued by the CNSC:



## **BWXT NEC – Toronto (FFL-3621.00/2030)**

Licensed to produce uranium pellets using natural and depleted uranium dioxide



## **BWXT NEC – Peterborough (FFL-3620.00/2030)**

Licensed to manufacture CANDU fuel bundles using pellets from Toronto and zircaloy tubes from Arnprior and licensed to produce pellets. No pelleting at this site during Midterm cycle. Licensed to service contaminated equipment from nuclear facilities.

Each license covers a 10-year period from January 1, 2021, to December 31, 2030, and includes a midterm update requirement.

BWXT maintained a satisfactory rating across all 14 Safety and Control Areas.



# Commitment to Safe Operations



## Our Commitment to Safe Operations

# Operational Safety

Industrial  
Safety

Radiation  
Safety

Environmental  
Safety

Public Safety

# Industrial Safety Performance

**Table 1: Peterborough Industrial Safety**

Peterborough Lost Time Injuries				
2021	2022	2023	2024	2025
1	2	0	0	1

**Table 2: Toronto Industrial Safety**

Toronto Lost Time Injuries				
2021	2022	2023	2024	2025
0	*0	0	0	0

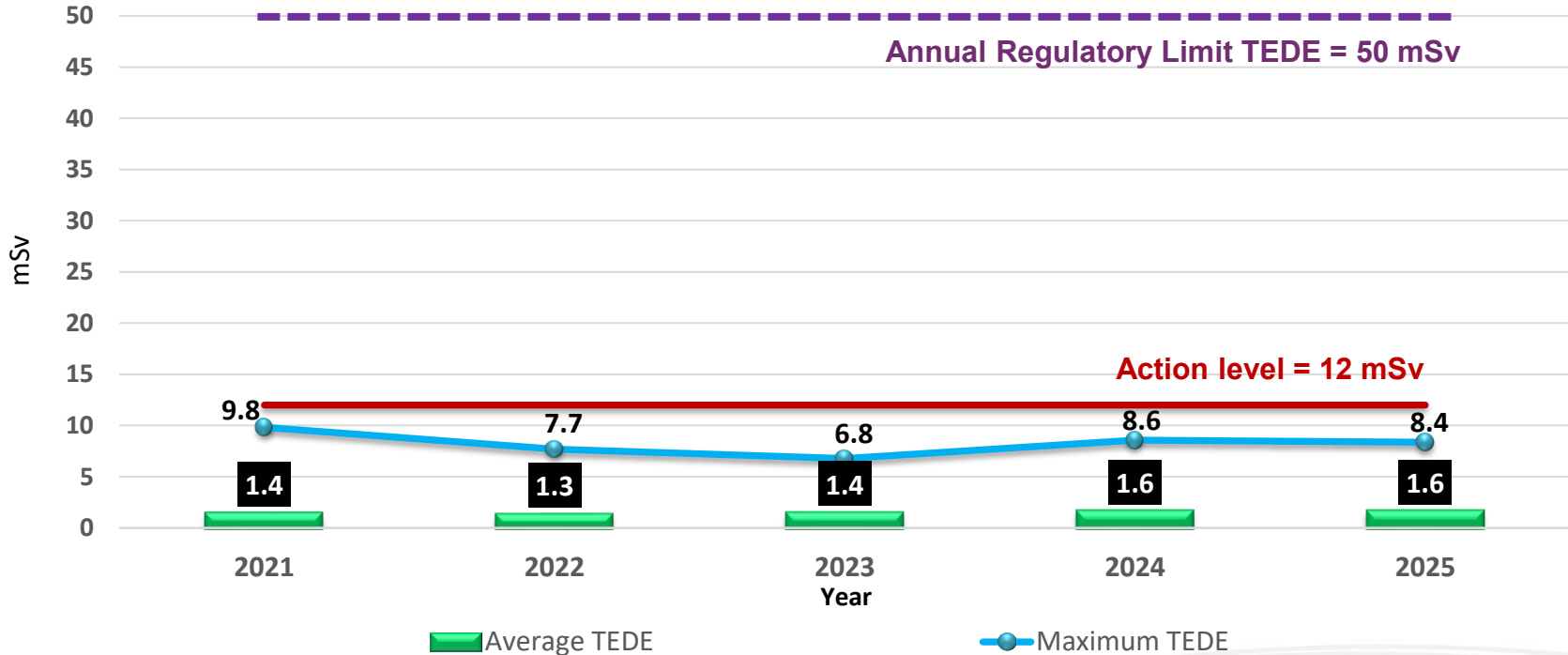
\*14 Covid-related cases



NEC has achieved multiple years with zero lost time injuries, demonstrating a robust culture of industrial safety performance

# Radiation Protection – Peterborough Workers (Total Effective Dose Equivalent)

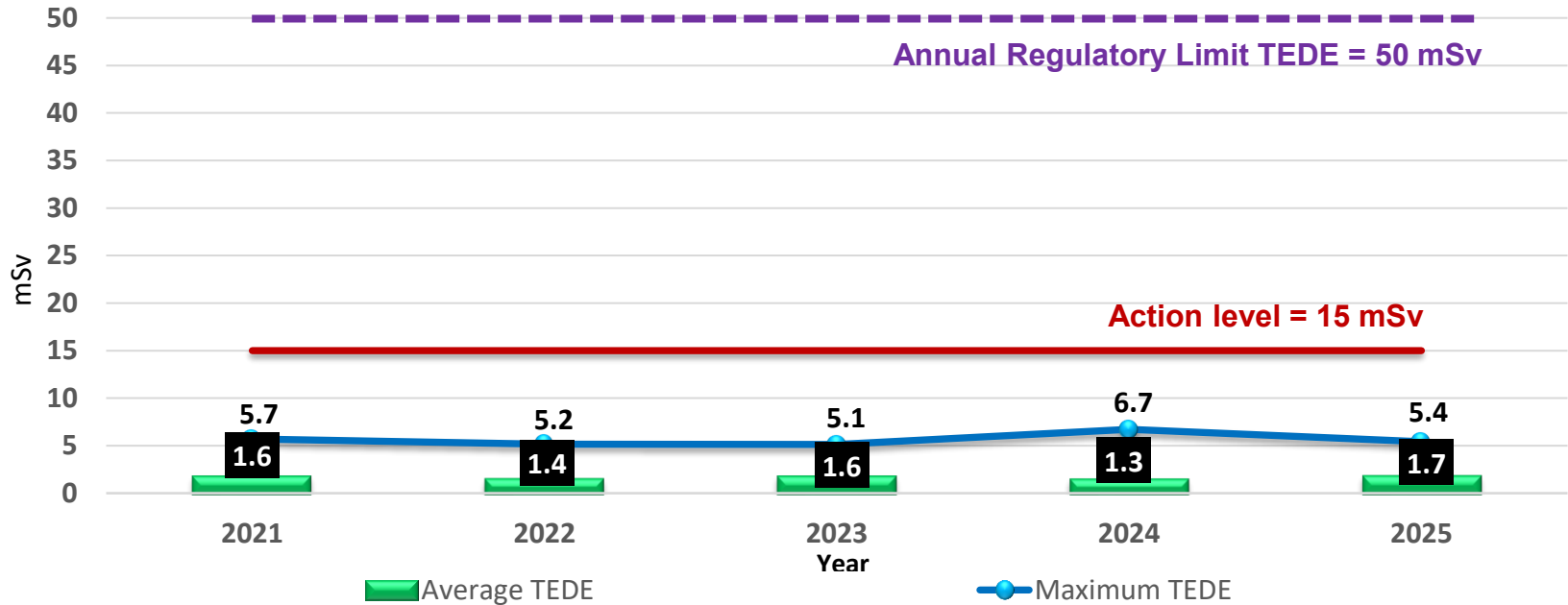
**Graph 1: 5-year Average and Maximum TEDE**





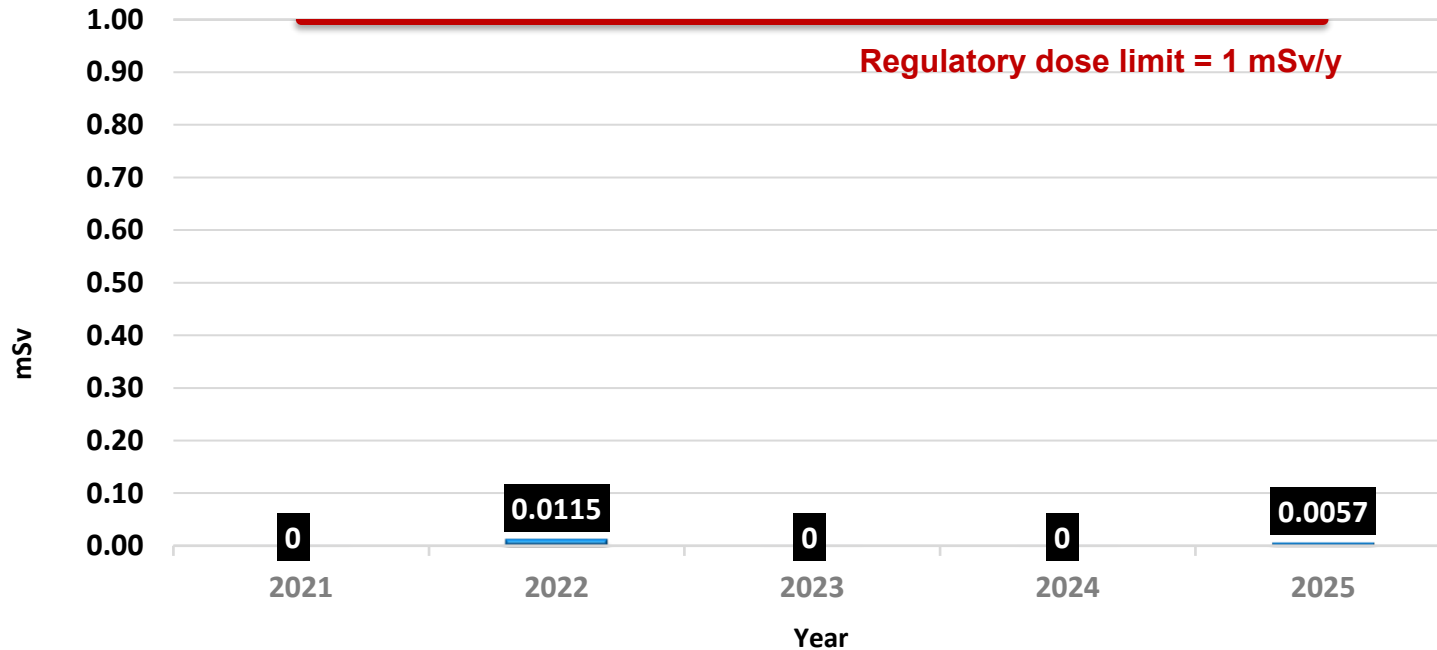
# Radiation Protection – Toronto Workers

**Graph 2: 5-year Average and Maximum TEDE**



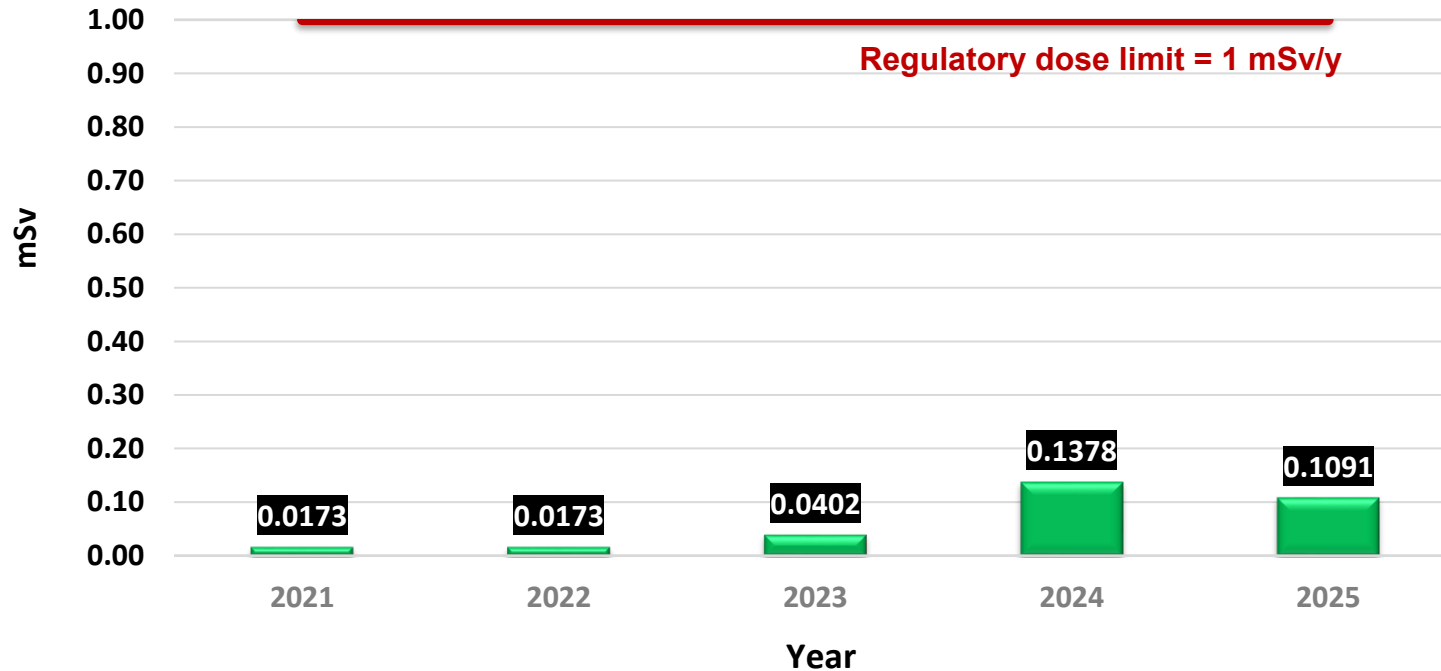
# Radiation Protection – Public (Peterborough)

**Graph 3: Dose to Members of the Public**



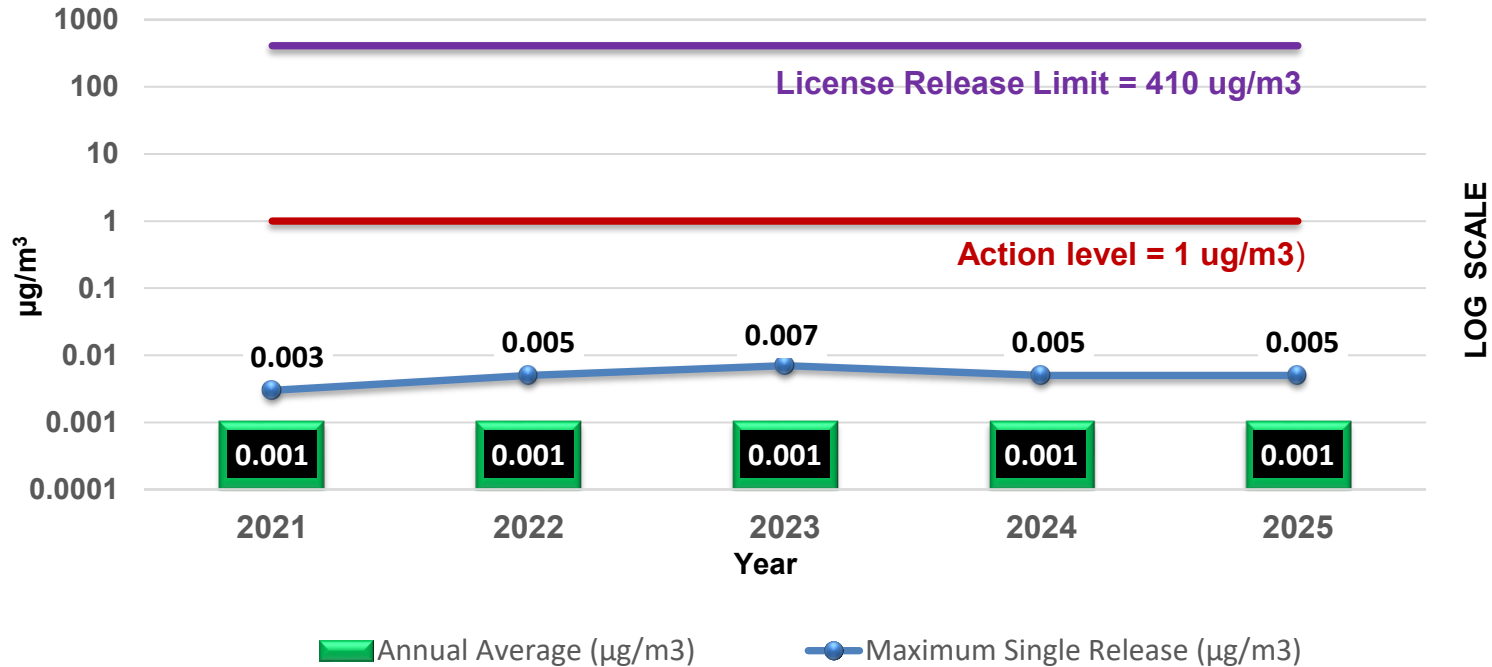
# Radiation Protection – Public (Toronto)

**Graph 4: Dose to Members of the Public**



# Environmental Protection – Peterborough (Uranium in Air)

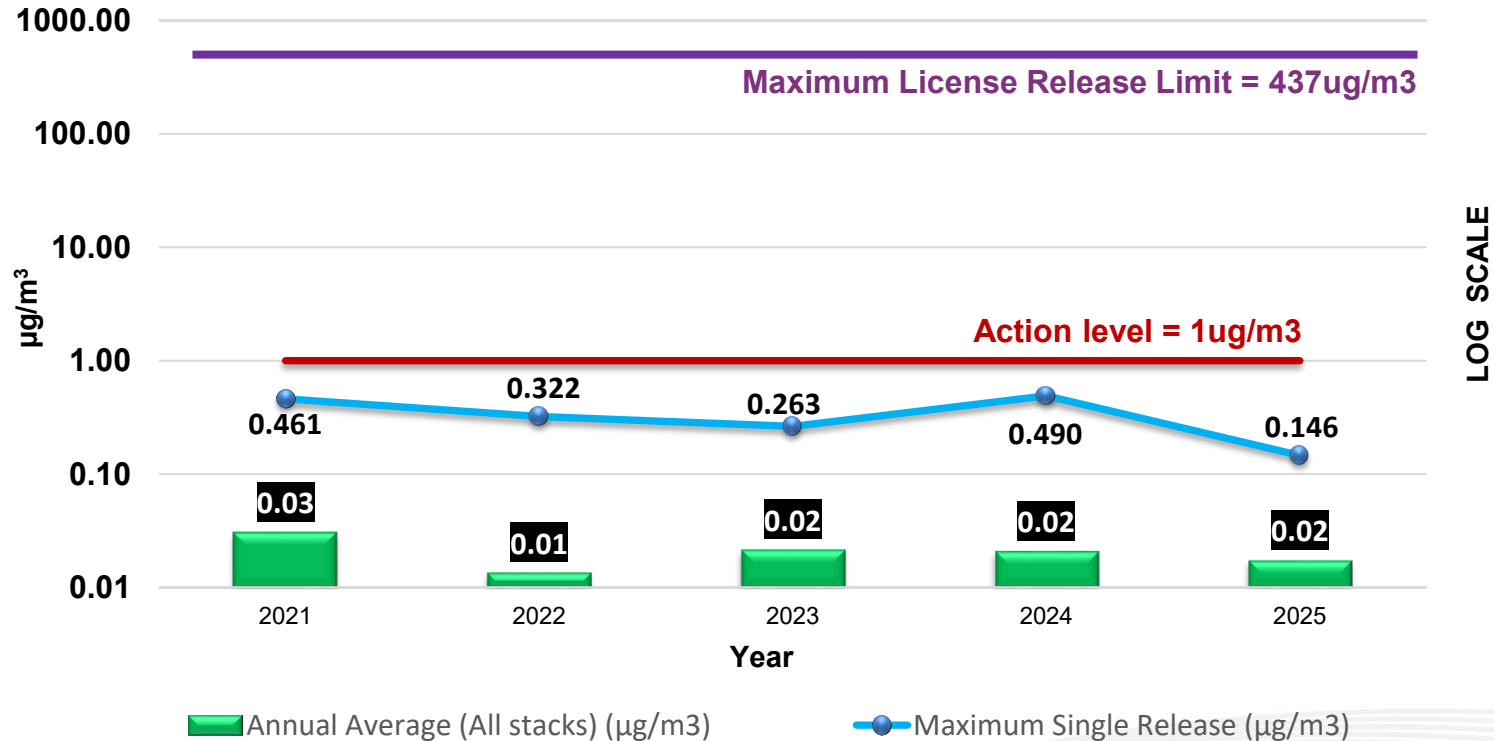
**Graph 5: Peterborough Uranium in Air Emissions**





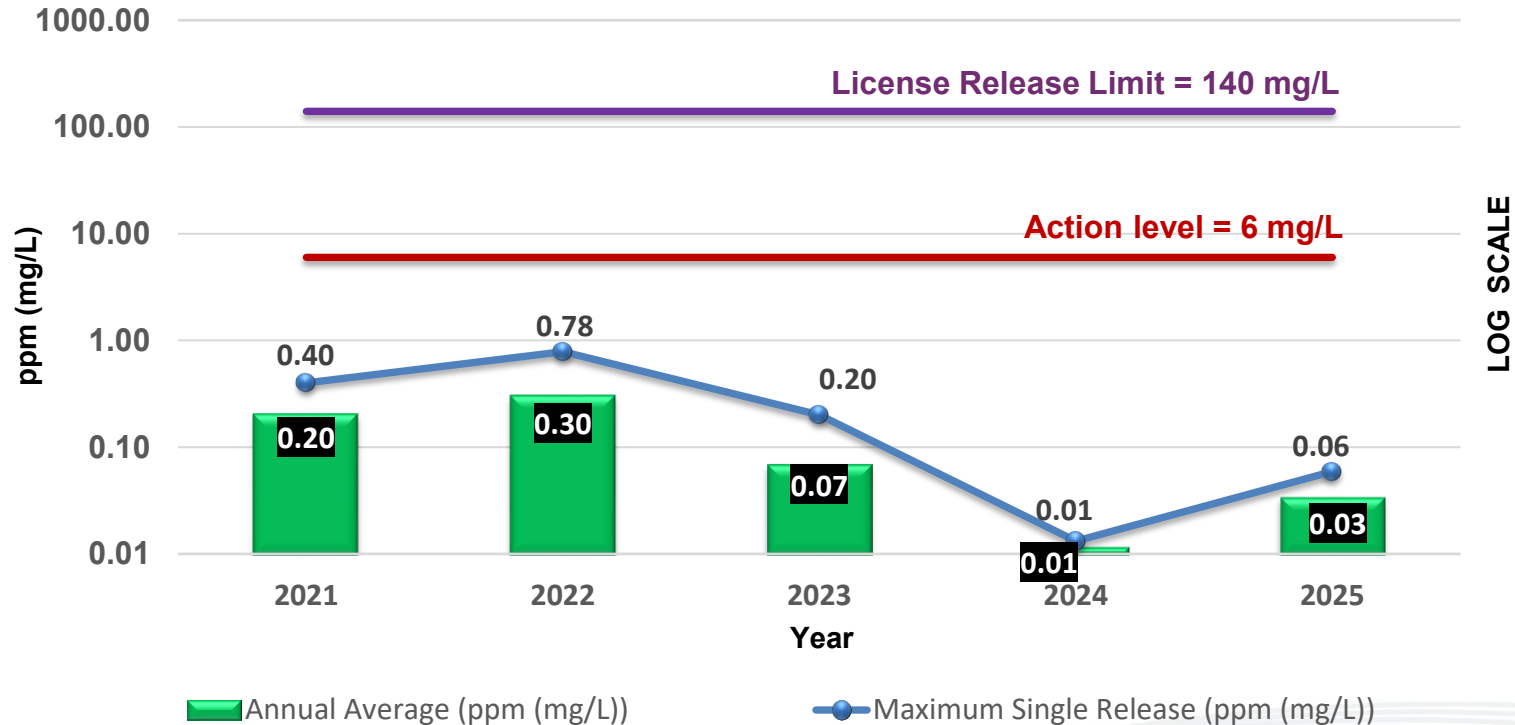
# Environmental Protection – Toronto (Uranium in Air)

**Graph 6: Toronto Uranium in Air Emissions**



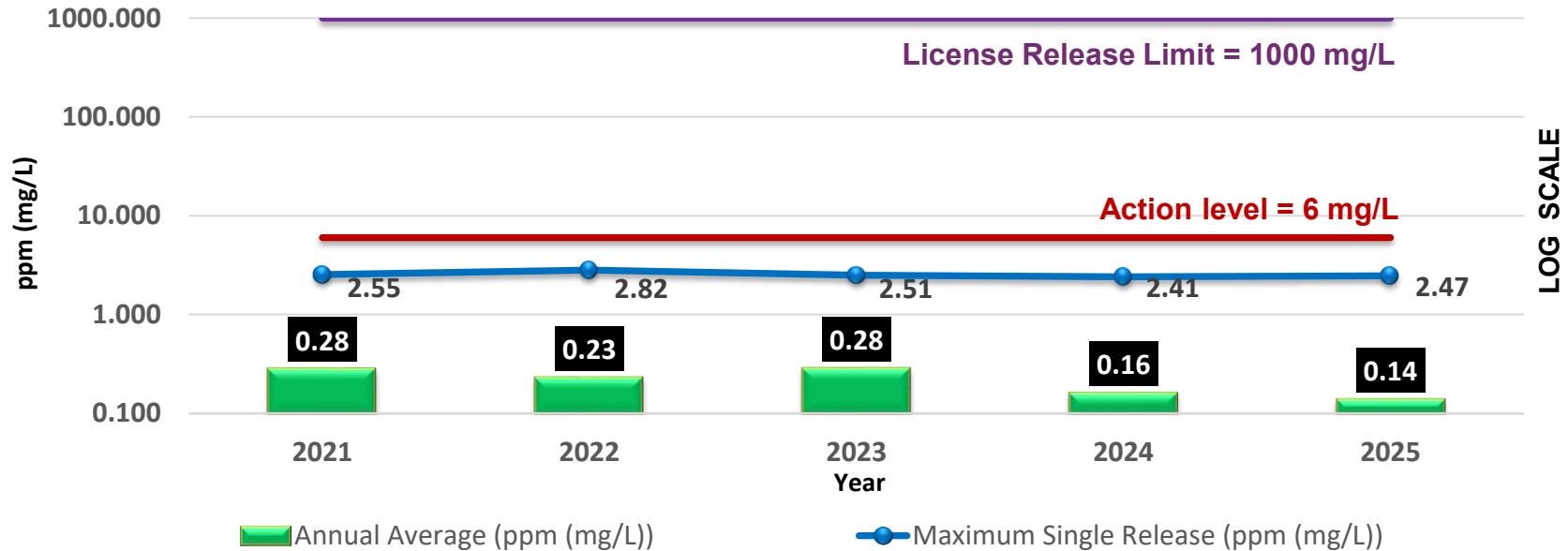
# Environmental Protection – Peterborough (Uranium in Water)

**Graph 7: Peterborough Uranium in Water Emissions**



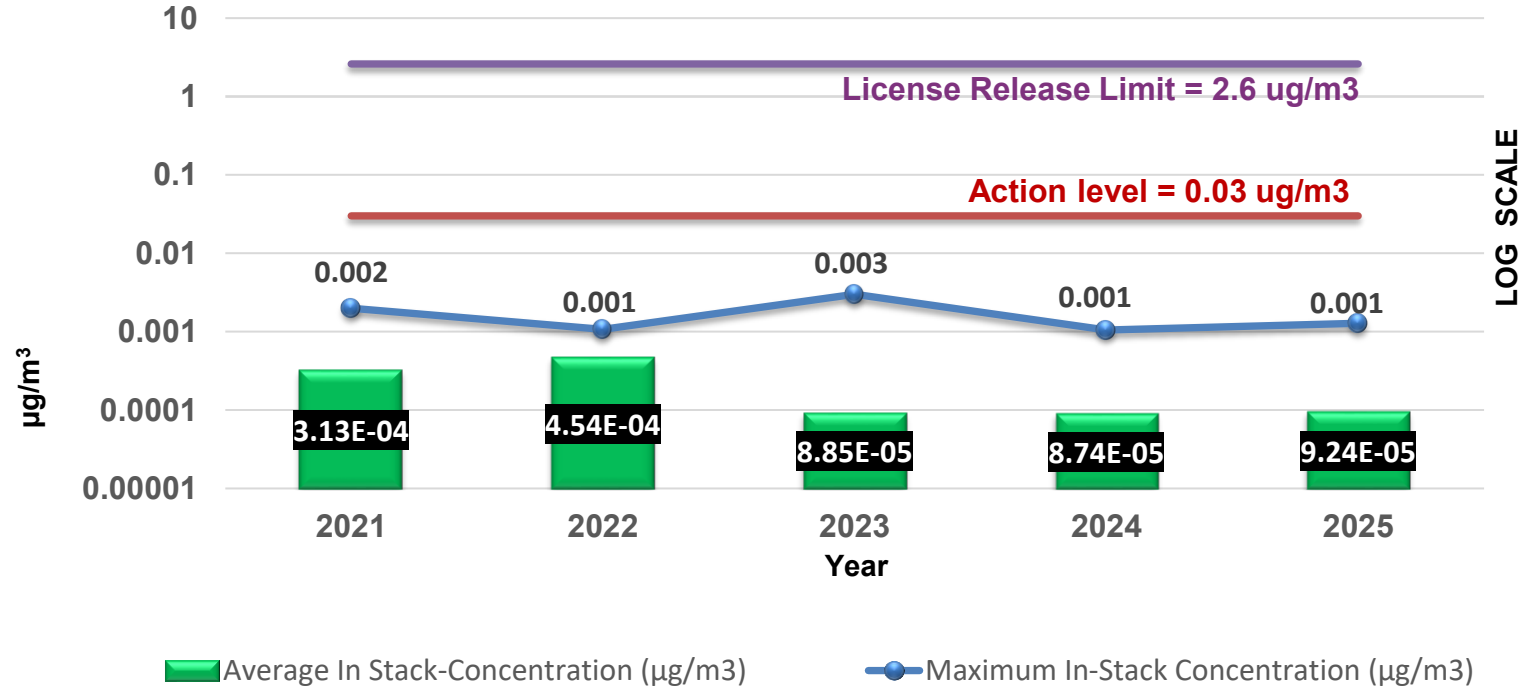
# Environmental Protection – Toronto (Uranium in Water)

**Graph 8: Toronto Uranium in Water Emissions**



# Environmental Protection – Peterborough (Beryllium in Air)

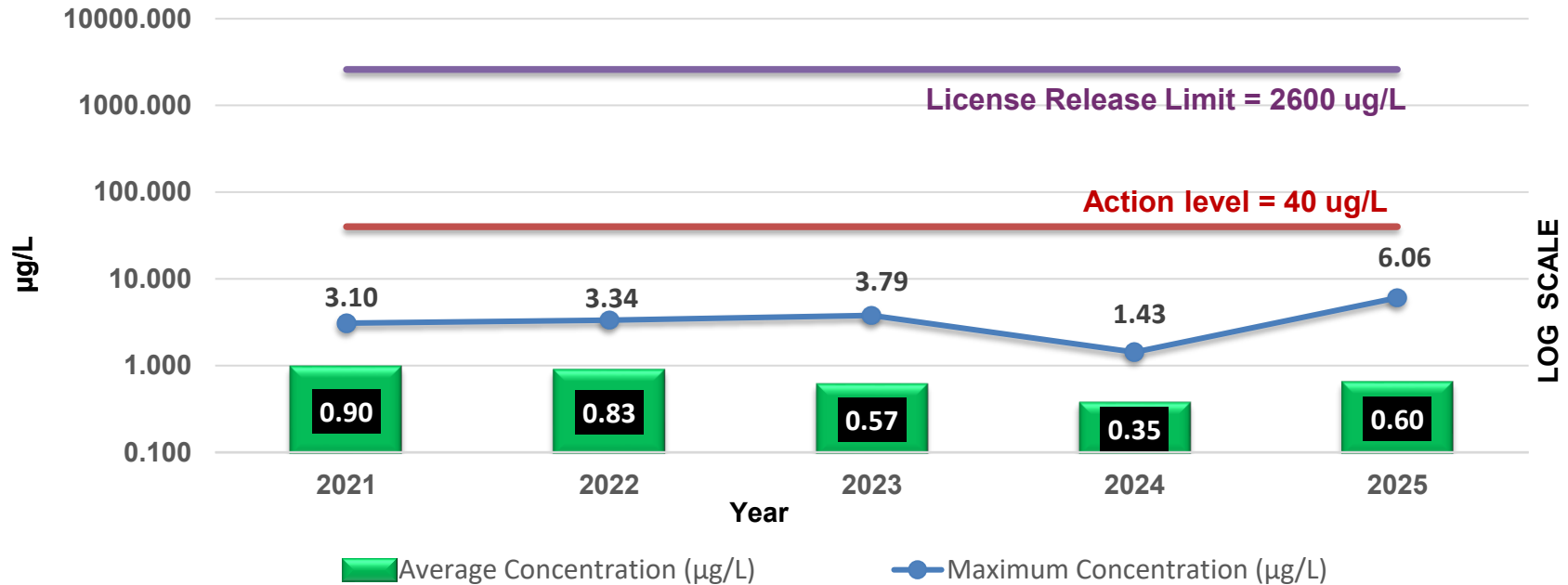
**Graph 9: Beryllium in Air Emissions - Peterborough**





# Environmental Protection – Peterborough (Beryllium in Water)

**Graph 10: Peterborough Beryllium in Water**



# Environmental Protection – Soil Sampling (Peterborough and Toronto)

## Peterborough

- Annual soil sampling for beryllium and uranium has been conducted since 2021 at key community locations, including Prince of Wales Public School.

## Toronto

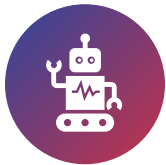
- Soil sampling was completed at residential, commercial, and industrial locations with results remaining well within environmental guidelines.
- **Across both sites**, and consistent with the CNSC's Independent Environmental Monitoring Program (**IEMP**), the results indicate that the communities are protected with no anticipated health impacts from operation of the facilities.





# Commitment to Continuous Improvement

## Continuous Improvement: Peterborough 2021–2025



Introduced a semi-automated pellet sorting and stacking system, improving efficiency and reducing manual handling.



Upgraded beryllium ventilation systems with new fans and improved airflow to strengthen worker protection.



Added new safety sensors and alarms in the beryllium rinse tank to enhance spill-prevention safeguards.



Completed site-wide sprinkler head replacements and updated fire suppression components across multiple buildings.



## Continuous Improvement: Peterborough 2021–2025



Installed a false floor in the robotic cell to eliminate tripping hazards and improve safety for workers entering the area.



Implemented several targeted asbestos abatement projects, demonstrating proactive facility stewardship.



Reduced overall water consumption by optimizing utilities and process controls.



Strengthened radiation-protection measures, including new shielding projects and hands-on field sessions with employees to reinforce ALARA practices.

## Continuous Improvement: Toronto 2021–2025



Added new shielding in key areas to further reduce radiation levels at the site boundary, especially with new residential building nearby.



Strengthened fire protection with upgraded fire-rated doors, improved emergency lighting, enhanced HVAC fire-safety features and sprinkler post indicating valve installation.



Improved equipment reliability through upgraded maintenance practices, new inspection tasks, and enhanced monitoring tools.



Expanded environmental initiatives such as installing light-sensors and implementation of waste diversion initiatives.



Enhanced worker safety by adding new guarding and fall-protection features around high-temperature furnace areas.

# Commitment to Indigenous and Community Engagement

# Indigenous Relations at BWXT

BWXT has been a member of the Canadian Council for Indigenous Business since 2017.

The company continues to advance Indigenous Relations through the Indigenous Relations Committee and the Indigenous Relations Roadmap.

Developed in partnership with Creative Fire, the Roadmap outlines seven themes with clear objectives, actions, metrics and accountabilities that guide meaningful progress on Indigenous Truth and Reconciliation across the organization.





# Indigenous Engagement and Relationship Building

## BWXT's Relationship with Curve Lake First Nation

- Relationship agreement in place since 2021
- Capacity funding for engagement, contributions for community cultural initiatives
- Regular meetings with Consultation Department
- Tours, meetings with Chief Whetung, Chief Knott
- Cultural education-focused community visits
- Participation in community events, soil sampling
- Review of BWXT's Indigenous Relations Roadmap
- Review of annual environmental monitoring reports

## Ongoing Engagement:

- Alderville First Nation
- Hiawatha First Nation
- Mississaugas of Scugog Island First Nation
- Mississaugas of the Credit First Nation



# Public Information & Disclosure Program

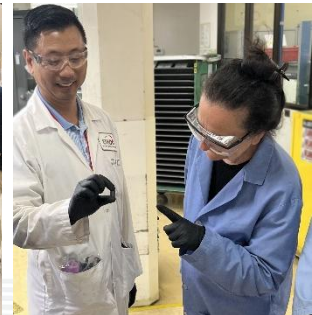
BWXT is committed to connecting with the community in a timely, transparent and meaningful way

## Dedicated communications channels:

- Website ([nec.bwxt.com](http://nec.bwxt.com)), phone (1-855-696-9588) and email ([questions@bwxt.com](mailto:questions@bwxt.com))
- Facebook Group and social media advertisements
- Monthly email updates, mailed newsletters and postcards
- Public Disclosure Protocol

## Providing opportunities to engage:

- Community events, tours and meetings
- Community Liaison Committees – meet regularly and comprised of community members





# Supporting the Community



**BWXT believes in fostering healthy, vibrant communities by empowering employees to volunteer time and expertise and by supporting a wide range of local initiatives through our charitable giving program**



# Continuous Improvement: Public Information & Disclosure Program



- Expanded community outreach through more in-person meetings, tours, events, and enhanced engagement with both Community Liaison Committees, resulting in improved attendance and more focused feedback.
- Strengthened communications through a dedicated Communications Specialist, targeted social media advertisements, a community-focused Facebook group, updated public materials, and continuous improvements to the website, including virtual tours and increased environmental monitoring data.
- Enhanced community relationships by increasing volunteerism, financial support, and engagement.
- Improved feedback processes to ensure all community input is collected, tracked, and acted on to completion.
- Advanced Indigenous Relations efforts and expanded engagement with Indigenous communities.

# Conclusion

## Conclusion

**BWXT has delivered consistent, verifiable performance across every regulatory measure**, maintaining a satisfactory rating in all 14 Safety and Control Areas with no action levels nor exceedances of licensed limits at either facility.

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**BWXT implemented meaningful upgrades that materially strengthen safety, reliability, and environmental protection**, from ventilation and shielding improvements to enhanced fire-protection systems and robust equipment-reliability measures.

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**Independent monitoring programs, including the IEMP**, together with extensive environmental data, confirm that operations are not impacting surrounding communities. Results for air, water, and soil remain near natural background levels and well below all applicable regulatory guidelines.

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**Outreach, communication, and Indigenous-community engagement efforts have been significantly expanded**, creating a more transparent, responsive, and trusted relationship with local communities and Indigenous Nations alike.





# Thank you

For more information, please contact our team

Email: [questions@bwxt.com](mailto:questions@bwxt.com)

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Website: <https://nec.bwxt.com>