



Nuclear Energy Canada Inc.

COMMUNITY NEWSLETTER

PROUDLY SUPPORTING OUR COMMUNITY

FALL 2020

1025 Lansdowne Avenue, Toronto, ON

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Join our Community Liaison Committee!

Local citizens and representatives of community organizations are invited to apply to BWXT Nuclear Energy Canada's (BWXT NEC) Peterborough Community Liaison Committee (CLC).

The CLC is a forum for the exchange of information between BWXT NEC and members of the community near our facility at 1160 Monaghan Road, Peterborough. BWXT NEC seeks to learn more about community priorities, interests and activities, and improve how the company shares information about work at its Monaghan Road facility, involving the company's health & safety initiatives and community activities. CLC members convey questions, discuss concerns and identify opportunities to improve communications and community relations.

Apply Now!

The application is available on our website at nec.bwxt.com and can be returned via mail or email.

The deadline to apply for the CLC is **December 11, 2020** and new members will be notified in January 2021.



SOCIAL MEDIA

In October we launched dedicated social media profiles to better connect with our communities in Toronto, Peterborough and Arnprior.

Follow and Like us on Facebook and Twitter!



Search for our handle @bwxtnec or

BWXT Nuclear Energy Canada Inc. to find our profiles.

CNSC Annual Public Meeting

BWXT NEC and other licensees will participate in a virtual public meeting on December 8, 2020 held by Canada's nuclear regulator, the Canadian Nuclear Safety Commission (CNSC).

Each year, BWXT NEC submits an Annual Compliance Report (ACR) to the CNSC with the purpose of demonstrating that BWXT NEC has successfully met the requirements of the Nuclear Safety and Control Act and its Class IB Nuclear Fuel Facility Operating Licence. BWXT NEC's 2019 ACR can be found on our website at nec.bwxt.com.

At the meeting, CNSC Staff will present the annual Regulatory Oversight Report for BWXT NEC's Class IB Nuclear Fuel Facility Operating Licence. The Report is available on the CNSC's website at the following link: <https://www.nuclearsafety.gc.ca/eng/the-commission/meetings/cmd/pdf/CMD20/CMD20-M36.pdf>.

For more information on this meeting, visit the CNSC's website at nuclearsafety.gc.ca.



CNSC Staff Beryllium Report Complete

During BWXT NEC's CNSC licence renewal hearing in March of 2020, the Canadian Nuclear Safety Commission directed CNSC Staff to complete soil re-sampling at locations in Peterborough, including Prince of Wales Public School.

CNSC Staff completed sampling and their full report can be found on their website at the following link:
<https://www.nuclearsafety.gc.ca/eng/the-commission/hearings/cmd/pdf/CMD20/CMD20-H2-D.pdf>.

Uranium Transportation

At BWXT NEC in Toronto, we make ceramic pellets from natural uranium powder. At our facility in Peterborough, we take the pellets and insert them into tubes to assemble into a fuel bundle for use in CANDU® reactors.

Natural uranium dioxide powder is shipped in drums from Port Hope to BWXT NEC's Toronto facility to be processed into pellets. Once they are processed, they are shipped from the Toronto facility to BWXT NEC's Peterborough operation. All of these transportations occur by truck over roads and the dose of radiation exposure from these shipments is insignificant.

BWXT NEC has an Emergency Response Assistance Plan with Transport Canada. This plan is used to assist emergency responders in effectively responding to a potential event or accident. BWXT NEC uses a dedicated truck for shipments. This type of material is shipped frequently and there are no hazards associated with driving next to a truck or being parked next to a truck carrying natural uranium.

BWXT NEC has been transporting natural uranium safely for over 50 years and in this history, there has never been a serious transport accident.



Drums of uranium dioxide powder.



Skids of ceramic pellets.

Medical Isotopes

BWXT is leading a groundbreaking project with Laurentis Energy Partners and Ontario Power Generation to produce Molybdenum-99 (Mo-99) for the first time ever in a power reactor.

The company held a special event in Peterborough on September 24th, where representatives unveiled BWXT's progress, which includes the completion of the tooling design and component manufacturing to enable the production of this life saving medical isotope. Mo-99 decays into Technetium-99 which is used in roughly 40 million diagnostic imaging procedures a year and is the most highly sought medical isotope in the world – accounting for over 80% of all nuclear medicine procedures. This is a critical medical isotope used to diagnose deadly diseases like heart disease and cancer.

BWXT's facility in Peterborough will manufacture the tooling and components needed to help produce this critical isotope at one of Ontario Power Generation's Darlington reactors. Once produced, BWXT will process the medical isotope at its nuclear medicine facility in Ottawa to help furnish hospitals across North America with this vital product for patients. To learn more, visit [bwxt.com](http://www.bwxt.com).



Benefits of Nuclear Energy

Did you know that nuclear energy provides approximately 60% of Ontario's power?

Nuclear energy has many benefits. Read on to learn more.

Clean Air

Nuclear energy is emissions-free power which helps to avoid 45 million tonnes of CO₂ annually - equivalent to removing 10 million cars from Ontario roads!¹ Ontario has not had a smog day since 2014 when nuclear power filled the gap created when coal plants were taken offline. The small amount of waste generated by nuclear is accounted for, is extremely small and its future disposal is fully funded from the start.

Low-cost, Reliable and Affordable Electricity

In addition to being clean, nuclear power is reliable, low-cost and affordable electricity. BWXT NEC directly supplies the fuel that powers 1/4 of Ontario with emissions free, clean power. Nuclear energy is the second most affordable source of power next to hydroelectric¹.

High-skilled, High-paying Jobs that Boost the Economy

The nuclear industry directly and indirectly sustains approximately 60,000 Canadian jobs¹. Many of these jobs are high-skilled and high-paying and help boost the economy. BWXT NEC is a provider of high-skilled, high-paying jobs at its three facilities in Ontario: Toronto, Peterborough and Arnprior.

Improving Lives with Nuclear Medicine

We need nuclear medicine to diagnose and treat disease and cancers. BWXT is a leading supplier of nuclear medicine and is making tremendous progress towards the development of a medical isotope that is used in over 40 million diagnostic imaging procedures a year².



¹ <https://cna.ca/>

² <http://www.canadianisotopes.ca>

Our People

Meet Leena Mohammed, the new Production Manager of Fuel Operations at BWXT NEC's Toronto facility.

Leena has an Operations Diploma and has held multiple supervisory and management roles in the past in a variety of fields. Additionally, Leena has past experience in continuous improvement which is a key aspect of BWXT NEC's path to success.

Leena will be responsible for day-to-day operations of the ceramic pellet manufacturing operation. Leena is looking forward to learning more about the nuclear industry and is excited to apply her past knowledge and experience to make an impact at the Toronto facility.

During her spare time, Leena enjoys watching Toronto Raptors basketball games, spending time gardening and painting. Leena is married with three children and was born in Trinidad.



Thank You for Attending Our Facebook Live!

Due to the Coronavirus pandemic, BWXT NEC had to cancel its Annual Community BBQ events which normally occur in the summer. To ensure we provided an outlet for the public to ask their questions, we recently held virtual Facebook Live events on our newly created Facebook profile. The Peterborough event was held on October 27th and the Toronto event was held on October 26th.

Throughout each event, BWXT representatives shared information on operations, safety, emergency preparedness, emissions, radiation, beryllium sampling and provided an update on our public information programs. Members of the public were able to submit questions in the comment section of the Facebook Live for BWXT to address during the event.

BWXT's panel on the Facebook Live included President of BWXT NPG, John MacQuarrie, Director of Fuel Operations, Ted Richardson, Director of EHS and Regulatory Affairs, Dave Snopek and Director of Communications and Government Relations, Natalie Cutler.

The archived video can be viewed on BWXT NEC's Facebook page. Search for *BWXT Nuclear Energy Canada Inc.* to find our profile on Facebook.



Thank You for Completing Our Survey!

Thank you to everyone who took the time to complete our community survey.



The survey, conducted by Ipsos, an independent research firm, ran from October 15th to November 20th and participants could complete the survey for a chance to win a \$500.00 Visa gift card. The survey could be completed online and telephone surveys were also conducted.

BWXT NEC completed community surveys in 2018 to obtain baseline data from the community. The 2020 survey results will help the company gather valuable insight into our programs, including strengths and areas for improvement.

A summary of survey results will be added to our website (nec.bwxt.com) in 2021.

TALK TO US

We Want to Hear From You!

Phone: 855-696-9588
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Online: nec.bwxt.com

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