



Nuclear Energy Canada Inc.

# COMMUNITY NEWSLETTER

PROUDLY SUPPORTING OUR COMMUNITY

FALL 2020

1160 Monaghan Road, Peterborough, 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](http://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](http://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](http://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.

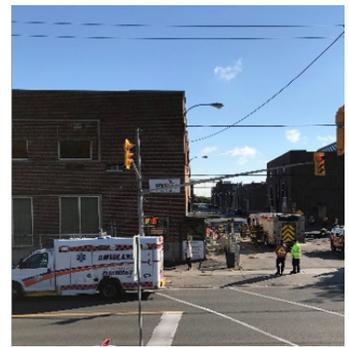
BWXT's facility in Peterborough will manufacture the tooling and components needed to help produce this critical isotope at one of Ontario Power Generation's Darlington reactors. Once produced, BWXT will process the medical isotope at its nuclear medicine facility in Ottawa to help furnish hospitals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



## CNSC Witnessed Exercise

BWXT NEC updated its emergency response program in 2020. Part of this program includes an emergency plan which outlines how we prepare for, respond to, and recover from emergencies at our facilities. The effectiveness of this plan is continuously assessed through regular drills and triennial exercises.

BWXT NEC successfully conducted a series of practice drills throughout the summer to implement the changes to the program and ensure employees and local first responders understood their role during an emergency under the new program.



On September 30th, BWXT NEC participated in a scheduled full-scale exercise at its 1160 Monaghan Road facility (see pictures above). This exercise was witnessed by the CNSC as part of an inspection and Peterborough Fire Services participated to ensure a coordinated response. The exercise simulation involved a fire in the fuel bundle assembly area where the natural uranium pellets are stored. The simulation also included smoke exiting the building after which air monitoring was performed to confirm that there was no risk to the environment or the public.

Both the CNSC and Peterborough Fire Services provided positive feedback regarding BWXT NEC's response.

## Our People

Meet Aliyah Aujnarain from BWXT NEC's Peterborough facility.

Aliyah graduated from the University of Toronto with a Mechanical Engineering Degree with a Nuclear Certificate.

Before working in Peterborough, Aliyah worked at BWXT NEC's Toronto pellet manufacturing facility as Operations Support. Now, Aliyah works in the Fuel Handling & Engineered Solutions business as a Systems Engineer.

In Toronto, Aliyah supported the fuel pellet production, shipment coordination and managed correspondence between regulators. Aliyah is currently working on a number of assignments to support the medical isotope project in Peterborough which involves writing and tracing requirements as well as completing failure mode analyses. Additionally, Aliyah is working on reactor and inspection tooling.

Aliyah is a mentor for Ontario Tech University's Women for STEM program and she is also the co-chair of BWXT NEC's Peterborough Women's Network.



## 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](http://nec.bwxt.com)) in 2021.

## TALK TO US

We Want to Hear From You!

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