

COMMUNITY NEWSLETTER

Proudly supporting our community and supplying the fuel that powers 1/4 of the province!

1160 Monaghan Road, Peterborough, ON

SUMMER 2022

INSIDE THIS ISSUE:

- Community Survey
- Social Media
- In The Community

- 2 Radiation In Our Daily Lives
- 2 **Our Operations**
- Talk To Us

Social Media

We use our social media channels as another way to connect with our communities in Peterborough, Toronto and Amprior. Follow BWXT NEC on Twitter and Facebook for regular updates!





2022 Community Survey Coming Soon

We conduct community surveys to obtain feedback on BWXT NEC's public information program, including strengths and key areas for improvement.

Our first survey was conducted 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. In 2020, BWXT NEC recommissioned Ipsos to conduct community surveying again to measure progress and identify gaps against the 2018 data.



Copies of the 2018 and 2020 reports are available on our website at nec.bwxt.com.

This September we will be launching a 2022 community survey through Ipsos to continue to track trends within our public information program. The survey will be available on our website at nec.bwxt.com and more information will be shared on our social media channels, website and through a mailing to the community.

2020 Survey Facts:

- 64% of Peterborough respondents were supportive of nuclear energy production.
- Familiarity of BWXT has increased in Peterborough since the 2018 surveying.
- 71% of Peterborough respondents felt that BWXT keeps the community updated via regular communication.
- 84% of Peterborough respondents felt that BWXT contributes to the local economy.
- 70% of Peterborough respondents were aware of BWXT's website. Of those who visited the website, two thirds agree that the website was informative.
- The preferred method of receiving information among Peterborough respondents was newsletter, flyer and online.

In The Community

Our employees have been busy in the community making positive change! In May, employees chose environmentally-friendly modes of transportation through GreenUp's Shifting Gears program. In June, employees paddled across Little Lake in the Dragon Boat Festival and cleaned and gardened at Prince of Wales Public School. In July, employees donated blood at Canadian Blood Services. We have so much more to do this year and encourage the community to let us know of opportunities requiring support by contacting our team at questions@bwxt.com.











Radiation In Our Daily Lives

Radiation is energy in the form of waves or particles. Radiation doesn't just come from nuclear energy - it's all around us. We're exposed to natural and human-made sources of radiation every day. There are two types of radiation: ionizing and non-ionizing.



Non-lonizing Radiation: humans are exposed to non-ionizing radiation sources each day. Nonionizing radiation doesn't have enough energy to ionize atoms or molecules. Some examples of non-ionizing radiation include microwaves, cellphones, FM and AM radio waves, baby monitors, garage-door openers and television signals.



lonizing Radiation: lonizing radiation comes from both natural sources and man-made sources and has a higher energy that can create ions. Some sources of ionizing radiation include x-rays, cosmic radiation and nuclear power plants.

Dose Regulation:

The Canadian Nuclear Safety Commission (CNSC) regulates the nuclear energy industry to limit the radiation that nuclear energy workers and members of the public receive.

Public Dose: The regulatory limit for members of the public is 1 mSv (millisievert) per year. The average natural background radiation exposure for people in Canada is 1.8 mSv.

Worker Dose: Using studies performed by the International Commission on Radiological Protection on acceptable levels of radiation exposure, the CNSC has set limits of 50 mSv per year, or 100 mSv per five-year span for workers.

BWXT NEC has a comprehensive radiation protection program and is guided by the principles of ALARA (as low as reasonably achievable). We use the best available technology to restrict uranium emissions and ensure emissions from our facilities are as low as possible. The small amount of uranium emissions that do occur does not pose a risk to members of the public.

Radiation Dose Examples:



0.0000 mSv The estimated annual public dose from BWXT's Peterborough facility in 2021



1.8 mSv The average annual dose from natural background radiation in Canada



1.15 mSv The average annual dose from indoor radon in Canada



0.07 mSv The dose from living in a brick or concrete building



0.04 mSv The dose from a flight from Toronto to London, U.K.



0.005 mSv The dose from a dental x-ray

TALK TO US

We Want to Hear From You!

855-696-9588 Phone: questions@bwxt.com Email: Online: nec.bwxt.com

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Follow us on Facebook and **f** Twitter for regular updates!

About BWXT NEC in Peterborough

In Peterborough, we assemble CANDU® fuel bundles using natural uranium dioxide ceramic pellets from our Toronto facility and zircaloy tubes from our Amprior facility. The fuel bundles are then sent to Ontario Power Generation's Darlington and Pickering Nuclear Generating Stations. Both our Peterborough and Toronto facilities are licensed by Canada's nuclear regulator, the Canadian Nuclear Safety Commission (CNSC).



Approximately 400 people work at BWXT in Peterborough in high-tech, manufacturing and administrative positions (180 are engineers in disciplines such as software, metallurgy, mechanical, electrical and systems). This team produces the fuel to power 1 in 4 homes and businesses in Ontario with greenhouse gas emissions-free, affordable electricity!

