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## Social Media

We use our social media channels as another way to connect with our communities in Peterborough, Toronto and Arnprior. 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](http://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](http://nec.bwxt.com) and more information will be shared on our social media channels, website and through mailing a to the community.

### 2020 Survey Facts:

- 56% of Toronto respondents were supportive of nuclear energy production.
- Familiarity of BWXT has increased in Toronto since the 2018 surveying.
- 65% of Toronto respondents felt that BWXT keeps the community updated via regular communication.
- 72% of Toronto respondents felt that BWXT operates its facility safely.
- 65% of Toronto respondents were aware of BWXT's website. Of those who visited the website, nearly half agree that the website was informative.
- The preferred method of receiving information among Toronto respondents was newsletter, flyer and online.

## Supporting Our Community

BWXT NEC has been a longtime supporter of Western Technical-Commercial School and their FIRST Robotics Team 865!

Jack Chong, Production and Engineering Manager from our Toronto facility, presented the BWXT student award at their graduation ceremony this June.



BWXT NEC is also proud to provide funding to the Davenport-Perth Neighbourhood and Community Health Centre to support their 2022 Summer Day Camp programs!

We have provided support to the centre in past years for their drop in program and general funding for other key programs at the centre.

We encourage the community to let us know of opportunities requiring support by contacting our team at [questions@bwxt.com](mailto: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-Ionizing Radiation:** humans are exposed to non-ionizing radiation sources each day. Non-ionizing 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.



**Ionizing Radiation:** Ionizing 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:



**0.0175 mSv**

The estimated annual public dose from BWXT's Toronto 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!



Phone: 855-696-9588

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 Follow us on Facebook and  
 Twitter for regular updates!

## About BWXT NEC in Toronto



In Toronto, we manufacture ceramic pellets from natural uranium dioxide powder. After pressing, baking, grinding and inspecting the pellets, we send them to our Peterborough facility where they are placed in CANDU® fuel bundles. 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 50 people work for BWXT in Toronto in high-value manufacturing positions, engineering, and operations support. This team produces the fuel to power 1 in 4 homes and businesses in Ontario with greenhouse gas emissions-free, affordable electricity!



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INNOVATION DRIVEN >