

BWXT Nuclear Energy Canada Inc.

# COMMUNITY NEWSLETTER



## INSIDE THIS ISSUE:

- 1 Radiation In Our Daily Lives
- 1 We're Hiring!
- 2 Annual Compliance Report
- 2 Nuclear Medicine
- 2 About BWXT NEC Toronto



## 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.

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

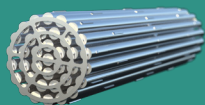
**Public Dose:** The regulatory limit for members of the public is 1 mSv (millisievert) per year. The natural background radiation exposure for people in Canada is about 2 mSv.

BWXT Nuclear Energy Canada (BWXT NEC) has a comprehensive radiation protection program and is guided by the principles of ALARA (as low as reasonably achievable).

**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.

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:



Interested in joining the BWXT NEC team?

**WE'RE HIRING!**

Visit [www.bwxt.com/careers](http://www.bwxt.com/careers) to learn about our current career opportunities



**0.040 mSv**  
Estimated annual public dose from BWXT NEC's Toronto facility in 2023



**1.6 mSv**  
Average annual dose from natural background radiation in Toronto



**1.2 mSv**  
Worldwide average annual dose of radon radiation



**0.07 mSv**  
Dose from living in a brick, concrete or stone building



**0.02 mSv**  
Typical dose from a cross-Canada flight



**0.005 mSv**  
Dose from a dental x-ray

# 2023 Annual Compliance Report Available

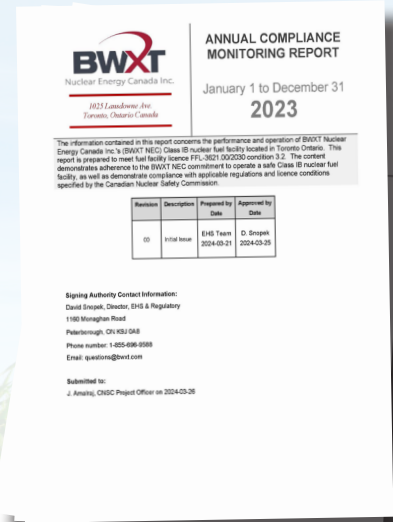
Each year, BWXT NEC submits an Annual Compliance Report (ACR) to Canada's nuclear regulator, the Canadian Nuclear Safety Commission (CNSC).

The purpose of the ACR is to demonstrate adherence to BWXT NEC's commitment to operate a safe Class IB nuclear fuel facility, as well as demonstrate compliance with the applicable regulations and licence conditions specified by the CNSC.

The ACR, which is reviewed by CNSC Staff, provides information related to BWXT NEC's performance across the CNSC's 14 Safety and Control Areas.



The 2023 ACR is available to the public on our website at [www.nec.bwxt.com](http://www.nec.bwxt.com) or you can scan the QR code



## The Power of Nuclear Medicine:



BWXT in Canada is not only a key player in electrical energy production but also aims to revolutionize the field of nuclear medicine. With a mission to lead the global market in this sector, BWXT is dedicated to developing cutting-edge products for diagnostic imaging and radiotherapeutic treatments, setting new standards for healthcare innovation.

Headquartered in Ottawa, BWXT Medical employs over 250 highly-skilled professionals across both Ottawa and Vancouver, British Columbia.

BWXT Medical manufactures medical isotopes, pharmaceuticals and medical devices, and partners with companies developing new drugs. Our customers include pharmaceutical companies, radiopharmacies, hospitals and ultimately patients.

To learn more about our BWXT Medical division, visit [medical.bwxt.com](http://medical.bwxt.com).



## About BWXT NEC in Toronto

At BWXT NEC in Toronto, our employees 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. Our Peterborough and Toronto facilities are licensed by Canada's nuclear regulator, the Canadian Nuclear Safety Commission (CNSC).

About 40 people work for BWXT NEC in Toronto in high value manufacturing positions, engineering, and operations support. This time produces the fuel needed to power 1 in 4 homes and businesses in Ontario with greenhouse gas emissions-free, affordable electricity!

