



Community Newsletter

BWXT NEC AWARDED \$168 MILLION CONTRACT EXTENSION FOR OPG NUCLEAR FUEL MANUFACTURING

BWXT Nuclear Energy Canada Inc. (BWXT NEC) has been awarded a \$168 million, five-year contract extension to manufacture fuel for Ontario Power Generation's (OPG) Darlington and Pickering nuclear generating stations. The deal extends BWXT NEC's current fuel manufacturing arrangement with OPG to the end of 2023.

"We are proud to be continuing our role in producing fuel bundles for OPG's nuclear fleet," said John MacQuarrie, President, BWXT Canada Ltd. and BWXT NEC. "This contract represents clean, low-cost and reliable electricity for millions of people in Ontario and sustains hundreds of high-value jobs across our facilities in Peterborough, Toronto and Arnprior."

Three of BWXT's Canadian-based operations (Peterborough, Arnprior and Toronto) will directly benefit from the positive impacts of the contract extension. The Arnprior operation produces zirconium-alloy tubes, while the Toronto facility produces natural uranium pellets. These components are shipped to the BWXT Peterborough facility where they are assembled into fuel bundles.

BWXT NEC has been manufacturing fuel for OPG since the early 1970s when the first fleet of Pickering (28 element fuel) reactors came on line. Later, BWXT NEC manufactured fuel for the Bruce and Darlington reactors (37 element fuel) as they came online throughout the 1980s and into the 1990s. Today, and for the past 17 years, BWXT NEC has been the sole fuel manufacturing supplier to OPG, providing both 28 and 37 element fuel bundle designs.

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BWXT LAUNCHES EMPLOYEE VOLUNTEER PROGRAM

At BWXT, we believe that healthy communities are strong communities. Through BWXT Volunteer Strong, all employees have the opportunity to help build stronger communities for those that live and work in them and can volunteer their time and expertise to local causes that are important to the communities in Arnprior, Peterborough, Toronto and Cambridge in areas such as education, health & wellbeing, arts & culture, environment and indigenous.

PROGRESSIVE ABORIGINAL RELATIONS



Progressive
Aboriginal
RELATIONS

COMMITTED

Canadian Council for
Aboriginal Business 

BWXT in Canada joined the Canadian Council of Aboriginal Businesses (CCAB) last year and is committed to building and sustaining positive relationships with indigenous communities in the areas in which BWXT operates in Canada.

We are participating in the CCAB's Progressive Aboriginal Relations (PAR) certification program. PAR is an online management and reporting program that supports progressive improvement in Aboriginal relations, and a certification program that confirms corporate performance at the bronze, silver or gold level. If a company is a leader in Aboriginal relations, PAR certification recognizes the commitment and success.

Today, we are PAR Committed – which indicates our commitment to continual improvement in Indigenous relations and our intention to undergo external verification of our performance in the future.

To date, we have established an internal PAR Working Committee that is comprised of employees across a range of disciplines including communications, supply management, human resources, union representation and finance. We have also implemented a Canada-wide Indigenous Policy that provides the framework for our program. The Policy is made publicly available at nec.bwxt.com.

The PAR Working Committee recently underwent Indigenous training that was conducted by Bear Standing Tall & Associates which provide Indigenous Cultural Sensitivity Training & Consulting for corporations in Canada.

ANNUAL COMPLIANCE REPORT AVAILABLE

BWXT Nuclear Energy Canada's (BWXT NEC) 2017 Annual Compliance Report was submitted to Canada's nuclear regulator, the Canadian Nuclear Safety Commission (CNSC) on March 31, 2018. The purpose of this report is to demonstrate that BWXT NEC has successfully met the requirements of the Nuclear Safety and Control Act and its Class 1B Nuclear Fuel Facility Operating Licence. BWXT NEC holds a 10-year licence which expires December 31, 2020.

The report, which is reviewed by CNSC staff, provides the CNSC with information related to BWXT NEC's performance in 14 Safety and Control Areas (SCAs). The 14 SCAs are: management system, human performance management, operating performance, safety analysis, physical design, fitness for service, radiation protection, conventional health and safety, environmental protection, emergency management and fire protection, waste management, security, safeguards and non-proliferation and packaging and transport.

The report is available to members of the public on BWXT NEC's website at nec.bwxt.com/safety. For any questions about the Annual Compliance Report please contact questions@bwxt.com or 1.855.696.9588.

2017 AIR RESULTS

Air and water emissions are routinely measured for the presence of uranium. BWXT NEC performs both continuous in-stack sampling and boundary air monitoring. Boundary samples are drawn at five positions around the Toronto facility perimeter using high-volume air samplers. The filters run 24/7 and are collected from the monitors every week and sent to a lab for analysis. New filters are then inserted into the air samplers so the air along the boundary is being tested continually throughout the year. The results show the Toronto facility has very low emissions.

Toronto Air (Boundary)	2016	2017
Number of boundary samples taken	260	260
Number of samples > action level (0.08 µg/m ³)	0	0
Average concentration (µg/m ³)	0.001	0.000
Highest value recorded (µg/m ³)	0.039	0.008

BWXT NEC samples its stacks daily for the presence of uranium. In 2017, BWXT NEC emitted 7.4 grams of uranium to the air – the equivalent of less than two teaspoons. The regulatory limit for uranium in air is 760 grams.

Toronto Stack	2016	2017
Number of samples taken	1,506	1,488
Number of samples > action level (1.0 µg/m ³)	0	0
Highest value recorded (µg/m ³)	0.809	0.440
Total discharge to air (grams U)	10.8	7.4

2017 WATER RESULTS

Water is used in the production process and to clean protective clothing, walls, floors and other janitorial functions. The water is first held in storage tanks in the facility, treated to remove uranium dioxide, tested and only released in batches once the test results confirm it meets regulatory requirements to be released.

In 2017, BWXT NEC emitted 0.94 kilograms of uranium to the sewers in the one year period – which is the equivalent to less than two standard 500 mL water bottles. The release limit for uranium water emissions is 9,000 kg/year.

Toronto Water	2016	2017
Number of samples exceeding 6 ppm batch release action level	0	0
Average uranium concentration in undiluted water (ppm)	0.81	1.13
Highest uranium concentration in undiluted water (ppm)	2.80	2.56
Total discharge to sewer (kg uranium)	0.65	0.94

IN THE COMMUNITY

BWXT NEC supports the community through a range of initiatives including sponsorships and volunteer activities. Here's a look at what we've been up to so far in 2018:

- ⇒ In late March, BWXT NEC sponsored the WARP7 First Robotics team from Western Technical Commercial High School. The team is currently ranked 15th out of 157 schools in Ontario and 1st out of all Toronto District School Board teams.
- ⇒ BWXT NEC is also working with Western Technical Commercial High School to establish a bursary award for a graduating student who is pursuing post-secondary education in a Science, Technology, Engineering or Math field.
- ⇒ Early in 2018, BWXT NEC provided a donation to Pauline Junior Public School to assist in the purchasing of classroom tools that support learning in Science, Technology, Engineering and Math.



OUR PEOPLE



Meet Amoi Leavene, Maintenance Manager and Manufacturing Engineer, from our BWXT Toronto operation.

She has a Master's degree in Electrical and Computers Engineering from New York Institute of Technology and was a National College Athletic Association Scholarship recipient at NYIT 2002- 2004.

Amoi is a member of NSPE (National Society of Professional Engineers) USA, and her Canadian Professional Engineering designation is in process. In her spare time she enjoys playing the piano and giving lessons to neighbourhood kids.

TALK TO US

WE WANT TO HEAR FROM YOU!

Contact us via the following methods:

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