



OPG's March Break Madness

Looking for something to do to help chase away those winter chills? Join us for fun, free, educational, and interactive March Break programs beginning Monday, March 12 through to Friday, March 16.

With an awesome line up of activities, including swimming, skating, a visit to the Robert McLaughlin Gallery, WindReach Farm or Purple Woods, discovering the science of sound and laws of motion with Scientists in School – you are sure to feel the warmth of the long awaited spring! For more details on Darlington and Pickering's March Break Madness program, see page 4.



Families experiencing animal magic at Windreach Farm.



Salmon raised in the Information Centre hatchery become part of the overall number released into the target streams annually.

Bring Back the Salmon

Enthusiastic students from St. Elizabeth Seton C.S. joined Ontario Power Generation (OPG) staff at the Pickering Nuclear Information Centre for the opening of an educational salmon hatchery in February. This year, Pickering Nuclear received 100 salmon eggs for the hatchery. OPG is the lead partner in the Bring Back the Salmon program, along with the Ontario Ministry of Natural Resources, the Ontario Federation of Anglers and Hunters, and a number of other organizations.

"We are thrilled to take part in this important program designed to help restore the Atlantic salmon population in Lake Ontario by 2020, and to help educate local public school students about the importance of habitat, stewardship, and biodiversity," Cheryl Johnston, Senior Communication Advisor, Pickering Nuclear, said. "Over the next few months, students will track the progress of the eggs. In late spring, they will release the fry (young salmon) into Duffins Creek in Claremont Conservation Area." ■

Pickering Relicensing – Have Your Say

If you have an interest in participating in upcoming Pickering licence hearings, you may file a Request to Intervene with the Canadian Nuclear Safety Commission. These requests must be filed with the Commission Secretariat by May 7, 2018. You may also attend the CNSC open house on March 8 from 4 to 7 p.m. at the Pickering Recreation Complex, 1867 Valley Farm Rd, Pickering, ON. More information is available at: cnsccsn.gc.ca

DID YOU KNOW?

Province Green Lights Unit 3 Refurbishment

The Ontario government recently confirmed its commitment to begin the refurbishment of Unit 3 at Darlington Nuclear. Durham MPP Granville Anderson made the announcement at an event at the Darlington Energy Complex to celebrate the halfway mark of refurbishing Unit 2.

"The Darlington refurbishment will ensure that reliable, nuclear energy continues to be the backbone of our generation fleet," the Minister of Energy said in a news release. "This multi-phase project will continue to boost economic activity across Ontario, create jobs and secure a clean supply of affordable electricity for the future."

"The go-ahead to move forward with the next unit is a testament to the hard work and dedication of the Darlington Refurbishment team," said OPG President and CEO Jeff Lyash. "Darlington is an essential source of electricity in Ontario and plays a key role in our economy. The station has delivered clean, reliable, low-cost power since 1990, and we are continuing to deliver on our commitment to complete this project on time and on budget."

Refurbishment and continued operation of Darlington to 2055 will contribute \$90 billion to Ontario's GDP, and increase employment across the province by an average of 14,200 jobs annually. ■



Durham MPP Granville Anderson and Bill Owens, OPG Vice President of Unit 3 Refurbishment Execution, at the Darlington Energy Complex, Feb. 15, 2018.

Thanks for Joining us for our Community Information Sessions



Members of the public getting an close-up view of the mock up Calandria.

In late October, OPG hosted a series of community information sessions in Scarborough and Pickering.

Staff members from OPG were on hand to share information on all aspects of operations at Pickering Nuclear, and to answer questions from attendees. Representatives from the Durham Region Emergency Management Office, Durham Health Department, City of Toronto Emergency Management Office and the office of Fire Marshal and Emergency Management were also on hand to provide information and answer questions about their role in emergency planning and preparedness. A site representative from the Canadian Nuclear Safety Commission also attended the sessions to share information about the federal regulator's role.

If you were unable to attend, the session materials are available on OPG.com. If you have questions about operations at Pickering Nuclear, please call 905-837-7272 or email pickeringnuclear@opg.com. ■



Focus on Emergency Response Capabilities

In December, OPG and more than 30 partner organizations successfully completed a large-scale, emergency preparedness exercise at Pickering Nuclear Generating Station.

OPG, the Region of Durham, City of Toronto, City of Pickering, and other provincial and federal government agencies worked together, tested each organization's emergency response plans, and ensured all participants were able to work together to help safeguard the health and safety of the public in the extremely unlikely event of a nuclear emergency.

"Safety is a core value at OPG," said Glenn Jager, OPG Nuclear President and Chief Nuclear Officer. "This exercise clearly demonstrates that, in the unlikely case of a nuclear incident, we have a plan in place that will protect the health and safety of the public and the environment."

Conducting drills and practicing response capabilities is an ongoing part of OPG's emergency preparedness program and commitment to safety. All participating groups are now evaluating lessons learned will be evaluated and shared with participating organizations and the public. ■



Community representatives participated in a focus group to evaluate the communications during the second day of the exercise.

Courtice Secondary School Helps get Nest Boxes Ready for the Winter



High School volunteers cleaned out more than 20 nest boxes on a cold December morning.

In early December, students from Courtice Secondary School took part in the annual cleaning out of the Darlington site nesting boxes. This on-site habitat enhancement program is recognized by the Wildlife Habitat Council (WHC), and is one of the many environmental activities that allows Darlington to earn certification in the WHC Wildlife at Work program.

The purpose of the nesting box project is to provide additional locations for small birds that nest at the Darlington site. Part of the project also includes examining each nesting box and recording usage patterns. The boxes are also cleaned each year to reduce the chance for disease and increase the likelihood that birds will return.

With the support of Courtice Secondary school, the nest box program has made Darlington an ideal location for learning about bird ecology and migration.

In addition to ongoing efforts around the nest box program, OPG has partnered with Central Lake Ontario Conservation Authority (CLOCA), Courtice Secondary School and Courtice North Public School to build and install bee hotels at the Darlington site and Enniskillen Conservation Area. Installation of the bee hotels will take place this coming spring. This new initiative will help support environmental education and the creation of pollinating gardens to help support healthy pollinator habitats. ■

ONTARIO POWER GENERATION

MARCH BREAK MADNESS 2018

BROUGHT TO YOU BY OPG'S PICKERING AND DARLINGTON NUCLEAR STATIONS

MON. MARCH 12

FOREST FRIENDS

WHEN: 10 a.m. and 1 p.m.
WHERE: Clarendon Conservation Area – Field Centre
4290 Westney Rd. N., Goodwood

Come meet the wildlife that call our forest home, learn about animal tracks and explore the trails around the Clarendon Field Centre. Finish up with hot chocolate by the campfire.

FREE

WED. MARCH 14

COMMUNITY SWIM

WHEN: 1 p.m. to 3 p.m. and 7 p.m. to 9 p.m.
WHERE: Pickering Recreation Complex
1867 Valley Farm Rd., Pickering

Lots of splashing, lots of laughing—and great exercise for all! Admission is free during program hours.
Pool has maximum occupancy, so it's first come, first served.

FREE

MON. MARCH 12

OBEY NEWTON: IT'S THE LAW!*

WHEN: 10 a.m. and 1 p.m.
WHERE: Darlington Nuclear Information Centre
1855 Energy Drive, Courtice

Join **Scientists in School** for an action-packed science adventure. Explore Sir Isaac Newton's Laws of Motion and learn about the importance of colour in science through cool experiments and fun activities.
**Registration is required at opg.com.*

FREE

THU. MARCH 15

FAMILY FUN AT THE FARM*

WHEN: 10 a.m. to 2 p.m.
WHERE: WindReach Farm (see windreachfarm.org)

Enjoy snowshoeing, wagon rides and a campfire. Make crafts and meet the farm animals.
**A \$20 charitable donation to the farm is appreciated. Please dress for the weather. Food and refreshments are available for purchase.*

FREE

TUE. MARCH 13

FAMILY ART TAKEOVER

WHEN: 10 a.m. to 2 p.m.
WHERE: The Robert McLaughlin Gallery,
72 Queen Street, Civic Centre, Oshawa

Let the team from **The RMG** guide you and your family in creating amazing artwork through fun, hands-on activities. All you need to bring is your imagination and your creative spirit!
Free parking available at Midtown Centre.

FREE

FRI. MARCH 16

MAPLE TIME FUN*

WHEN: 9:30 a.m. to 2:30 p.m.
WHERE: Purple Woods Conservation Area
Maple Syrup Festival, North Oshawa

Discover the wonders of Canada's famous sugar maple trees! OPG activities are FREE but there's a \$5+HST per person admission fee to Purple Woods.
**Admission tickets must be purchased in advance at cloca.com; additional cost for non-OPG activities.*

FREE

WED. MARCH 14

COMMUNITY SKATE

WHEN: 9:30 a.m. to 1:30 p.m.
WHERE: South Courtice Arena, 1595 Prestonvale Rd., Courtice

Gather your skates, helmet, family and friends. Beginner or expert, young or old, skating is fun for everyone!
Pad A – Learners Skate; Pad B – General Public Skate.

FREE

FRI. MARCH 16

THE SCIENCE OF SOUND*

WHEN: 10 a.m. and 1 p.m.
WHERE: Pickering Nuclear Information Centre
1675 Montgomery Park Rd., Pickering

What is sound and how does it work? Learn the science behind this and put it to the test with your own harmonica.
**Registration is required at opg.com.*

FREE

Programs are suitable for children ages 6 to 12. All children must be accompanied by an adult.
For more information, please visit opg.com.

NEIGHBOURS
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ONTARIO POWER GENERATION





REPORT TO THE COMMUNITY

Pickering Nuclear Community Advisory Council 2018

PICKERING PLANT AIMS FOR NEW LEASE ON LIFE

During 2015, the Community Advisory Council (CAC) had frequently discussed the repurposing of the Pickering site, where nuclear commercial operations were scheduled to close within three years. In January 2016, the picture changed completely with the Government of Ontario's announcement of plans to extend the operating life of Pickering Nuclear to 2024. Like most people who live and work in the Pickering area and surrounding region, Council members saw this turn of events as good news. But they had to ask OPG: What has changed to lead you to, seemingly all of a sudden, conclude that continued operations to 2024 is feasible? And how are you going to ensure that this can be done safely?

OPG took these questions seriously and organized a series of presentations to demonstrate the safety of the proposed plant life extension activities.

OPG spokesperson Josie Barbato indicated that OPG's ability to gauge the future capacity of the plant has

been constantly improving. These tools and methodologies for assessing the equipment "have been able to reassure us that the plant is sufficiently robust to continue operations to 2024," she said.

Plant manager Ken Gilbert put the life extension project in a larger context: operating the Pickering plant to 2024 will fill the gap in the province's electricity supply while parts of the Darlington and Bruce Power nuclear power stations are shut down during their refurbishment over the next few years. It was noted that the province had concluded that this approach to ensuring an emission-free baseload capacity to 2024 was the best one for Ontario.

The CAC was reassured to hear that Pickering Nuclear continued operations from 2018 to 2024 will avoid the need to call upon natural gas plant-generated power during that timeframe, which will:

- Reduce greenhouse gas emissions by an estimated 17 million tonnes
- Save Ontario electricity consumers up to \$600 million
- Maintain 4,500 jobs across Durham Region

CAC members emphasized the importance of OPG keeping the community informed about the extended operation plans for the Pickering site and the continued commitment to safety. ■



Pickering Nuclear Control Room

CAC SUPPORTS DARLINGTON REFURBISHMENT BUT KEEPING CLOSE EYE ON TIMELINES AND BUDGET PERFORMANCE

The CAC has always been aware of the regional and provincial context in which Pickering Nuclear operates. But this awareness of the broader context has increased markedly in recent years. At the regional level, the Council now conducts joint meetings with the Darlington Community Advisory Committee twice a year to discuss topics of mutual interest to the two groups.

Living and working in Durham Region, Pickering CAC members are particularly interested in the Darlington

refurbishment project. This project, now underway and scheduled to be completed by 2025, will extend the life of the Darlington plant to 2055. Current plans are for all four reactors at Darlington to be refurbished.

When they first discussed the topic in late 2014, CAC members commented positively on the Darlington refurbishment website and the site's open door event at the time that drew 3,500 visitors. However, like many others in Durham Region, they had two questions:

1. Will the refurbishment be completed on time and on budget? (OPG's answer is yes)
2. Why is this project going to be any different than a number of previous OPG nuclear power projects that were not completed on time and on budget?

At a joint meeting of the Pickering and Darlington CAC's in June 2016, Chief Nuclear Officer Glenn Jager answered the second question. "We have done a lot of advance planning," he said. "We are drawing on the hard lessons of past experience." He focused on the full-scale model of the reactor in place at Darlington, a realistic mock-up that allows engineers to test out all the refurbishment tooling in advance, "so that many kinds of delays will not happen." Since the meeting took place at the Darlington site, CAC members were able to see the mock-up for themselves. To date, at least, the advance planning and mock-up have kept the project well on schedule and yielded millions of dollars in savings.

Noting that there are critics of the nuclear industry strongly opposed to the refurbishment, CAC members have asked OPG how they are going to help the public understand that the company is doing a good job on the project. The Council has been pleased to hear that OPG will continue to regularly provide Darlington refurbishment progress updates to the public. ■



Joint meeting with Pickering and Darlington CAC members at Darlington in October 2016

NUCLEAR WASTE MANAGEMENT: CAC FOCUSES ON SAFETY

The benefits of nuclear power are well known: affordable energy that is essentially emission free. The challenge is what to do with the radioactive waste. The CAC has, therefore, always been interested in the short-term and long-term management of nuclear waste at OPG. They have learned much over the years. They have concluded that OPG is meeting the

challenge of safely handling the short and long term waste.

There are three grades of radioactivity in the waste produced by nuclear power plants:

- Low Level (e.g. paper, rags, gloves, clothing and tools)
- Intermediate Level (e.g. used pipes and valves, resins, chemical sludges)

and contaminated material from reactor decommissioning)

- High Level (used nuclear fuel)

Low and intermediate level wastes are shipped to OPG's Western Waste Management Facility (WWMF) near the Bruce Power site, where they are carefully handled by qualified staff. Low level wastes are processed for volume reduction (through incineration and other measures) and stored in above ground concrete warehouse-like structures. Intermediate level wastes are stored in steel-lined concrete containers set into the ground. This is safe, temporary storage for low and intermediate level waste.

In 2013, a number of CAC members visited the site in Kincardine for OPG's proposed Deep Geologic Repository (DGR) for the long-term storage of low and intermediate level nuclear waste. They talked to OPG scientists about the type of rock layers deep underground in which the waste will be stored. Because low and intermediate level waste from the Pickering site



Dry Storage Container transport vehicle at Pickering Waste Management Facility

will continue to be transported to the facility in Kincardine, the CAC decided to intervene in a federal review panel public hearing on the proposed project. They wrote a letter in support of the project, citing their own experience in working with OPG and its openness to public input; and noting that the waste materials in question are already stored on the site at Kincardine adjacent to the proposed project.

The federal review process for the DGR proposal turned out to be one

of the most thorough in Ontario's history and, as of this writing, is still being finalized.

HIGH LEVEL NUCLEAR WASTE

High level nuclear waste (used fuel bundles) accounts for just 3% of the volume but 95% of the total radioactivity of waste from nuclear power plants. It is handled accordingly to ensure safe storage. When first removed from a reactor, the used fuel bundles are stored in pools of water for seven to 10 years

COUNCIL Q&A

WHAT IS THE CAC?

A core vehicle for OPG dialogue with the community, the Community Advisory Council assists Pickering Nuclear Generating Station in identifying and responding effectively to the concerns of the community. The group is made up of citizens, representatives of community organizations and members of local government staff and agencies, all of whom examine a wide range of issues associated with the station.

Meetings are open to the public and local media, and minutes are posted on the OPG website (<https://www.opg.com/communities-and-partners/host-communities/Pickering-Ajax-Whitby/Pages/Pickering-Community-Advisory-Council.aspx>).

HOW ARE CAC MEMBERS ABLE TO UNDERSTAND TECHNICAL NUCLEAR ISSUES?

The process of nuclear power generation is complex, as is the operation of any large industrial facility. The CAC approach is to encourage OPG to communicate issues and progress in non-technical language, so that Council members can provide advice from an informed perspective. There is a two-way flow of information, as

the management of Pickering Nuclear also needs to understand community concerns and attitudes, and incorporate community advice into decision-making at the site. At no time does the Council seek to displace direct communications between OPG and local municipal governments or other organizations.

WHERE DOES THE CAC MEET AND WHEN?

Meetings take place on the third Tuesday of the month, eight to 10 times a year (the Council does not meet during the summer) at the Pickering Nuclear Information Centre Auditorium. The meetings run from 6:00 pm to 8:30 pm and are open to the public. The CAC is managed by an external facilitator and the process is funded by OPG.

to provide cooling and shielding against radiation. After seven to 10 years, the used fuel can be safely transferred to dry storage. Each OPG nuclear plant stores its own used fuel bundles and will continue to do so until the Nuclear Waste Management Organization implements a long-term solution under federal legislation.

Dry storage containers (DSC's) are stored in large warehouse-type buildings. About 800 such containers are currently stored at the Pickering Waste Management Facility (PWMF). In May 2016, the CAC toured the PWMF, including the area where the DSC's are welded and sealed and the area where the containers are stored. Council members also saw the custom-built container transport vehicles – which resemble a giant municipal grader, and operate safely at just a few kms per hour, inside the Pickering facility.

The CAC visitors focused on safety and security. Among their questions to PWMF manager Glenn Pringle:

- Are any DSC's stored outdoors? (The answer was no.)
- How does OPG ensure security of supply from DSC manufacturers? (There are two suppliers, and a number of extra containers are always on the site in case of a production difficulty.)
- Has a DSC ever failed to operate properly? (Very rarely. On a few occasions over the 23 years that we have been using DSC's, we have experienced a minor problem concerning the fit of the lid bolts. When this happens, the unit is returned to the manufacturer for retooling.)
- Is anyone from OPG involved in testing the containers at the manufacturer's plant? (OPG's program to qualify and re-qualify suppliers occasionally involves site inspections.)
- How do you know that the internal temperature and pressure of the unit is at the levels for which the container is engineered? (As a result of CAC questions on a previous visit, a select number of

DSC units have been equipped with internal monitors that provide data. Experience from this additional information has demonstrated that the DSC units do perform as expected.)

Based on this visit and their general experience of OPG's forthcoming answers to their questions about nuclear waste management, the CAC decided to write a letter of support for OPG's application to the federal regulator to renew the PWMF licence to operate.



PWMF used nuclear fuel storage canisters

TERMS OF REFERENCE

<https://www.opg.com/communities-and-partners/host-communities/Pickering-Ajax-Whitby/Pages/Pickering-Community-Advisory-Council.aspx>

WHO ARE THE CAC MEMBERS?

Constituency Members

City of Pickering
Deborah Wylie

Town of Ajax
Sean McCullough

Durham Region
Greg Lymer

Toronto and Region Conservation
Mary Gawen

**Pickering West Shore
Community Association**
Currently vacant

**West Rouge Community
Association**
Mahen (Moe) Perera

Pickering Naturalists
Dan Shire

Scouts Canada, Durham Region
John Earley

Business
Tim Kellar, Donna Fabbro

Student Representatives
Kristin Hall, Anna-lisa Tersigni

Durham Tamil Association
Dinesh Kumar, Kira Shan

Citizens at Large

Pickering
Keith Falconer, Pat Mattson,
Donald Hudson, Ralph Sutton

Ajax
Bill Houston

Whitby
Zachary Moshonas

Waterfront
Jim Dike

Toronto
Helen Shamsipour, John Stirrat

The Council's letter was included at the regulator's public hearing on the application in April 2017, and stimulated a number of questions about the work of the Council.

A LONG-TERM SOLUTION

The Nuclear Waste Management Organization (NWMO) has a mandate to implement Canada's plan which involves identifying a site for a deep geological repository for the long-term storage of used nuclear fuel. The CAC understands that this is a decades long process, but that the NWMO has made significant progress. The organization has conducted preliminary assessments in areas where communities expressed interest in hosting a long-term repository and narrowed the process down to five areas at the time of writing (details at <https://www.nwmo.ca/en/Site-selection/Study-Areas>). The next step is to conduct more detailed assessments of preferred locations, looking at geological suitability, safety, transportation and partnership factors.

The NWMO emphasizes that the project will only proceed with the involvement of the interested community, First Nation and Métis communities in the area, and surrounding communities working together to implement it.

Jo-Ann Facella, who addresses community issues at the NWMO, has spoken to the CAC on several occasions, most recently in April 2017. The



Observers at Pickering Nuclear emergency drill December 2017



NWMO technicians explore potential siting area for Deep Geological Repository

Council asked Facella why the selection of a site is taking so long. "It has a lot to do with the pace and manner in which people in a given area wish to proceed," Facella said. "This process requires thorough discussion in the community to learn about the project and reflect on how it might fit in the area."

The CAC also asked questions about fault lines and earthquakes, construction costs, reactions of Americans living near the Great Lakes, and other issues. They learned that: an underground repository

will provide better protection from surface events over the long term such as ice ages; as a requirement in law, nuclear operators have set aside money in a segregated fund for construction, operation and other costs associated with implementing the project; there is time in the process for people on both sides of the Canada-U.S. border to continue to learn about the safe long-term management of used fuel.

CAC members were impressed with the thoroughness of NWMO work. ■

EMERGENCY DRILL AT PICKERING NUCLEAR

On December 6 – 7, 2017, a major emergency drill was held at Pickering Nuclear. The scenario was a severe nuclear accident at the station—the loss of coolant at one of the units. While emergency mitigation equipment was deployed to ensure power and additional coolant, the situation evolved to the point where a decision was taken to evacuate to a three-kilometre radius around the site and shelter to a radius of 10 kilometres. Entitled Exercise Unified Control, the drill involved over 30 agencies from first responders (local police and fire departments) to other municipal bodies to federal and provincial agencies. The event took

two 12-hour days as opposed to the usual four to six hours for such drills.

CAC member Bill Houston participated as an observer during the exercise. While very impressed with the drill, Bill and other observers noted lags in communication as the simulated situation developed. These lags were related to the long approval authority chain of command for information release.

A post-exercise document and video will be made available to the public and posted on the OPG website in the first quarter of 2018. ■

WHAT ARE CAC PLANS FOR 2018?

The primary focus will be on matters of current concern to the plant and the community, on which senior OPG managers seek CAC advice on a timely basis. Among the items the Council will pay particular attention to over the coming year:

- In 2018, the CNSC will hold public hearings on OPG's application to renew Pickering Nuclear's licence to operate for a 10-year term. The licence would cover plant operations to the end of 2024 and, between 2024 and 2028, safe storage activities such as removal of fuel and water from the reactors. The CAC will continue to make comments to OPG on the
- The CAC will discuss the Pickering Nuclear Emergency Response Plan (PNERP), recently updated by the Province of Ontario, and will follow emergency preparedness developments in 2018. The group will continue to offer advice to OPG in refining communication activities around emergency preparedness.
- The CAC remains keenly interested in OPG's annual report on environmental monitoring at the Pickering and Darlington sites. To date, the Council has found the report reassuring. They have urged OPG to provide the information

need for useful and timely public communications on this topic. The Council will also likely participate as an intervenor in the public hearings, where they will comment on OPG's plans.

in a publicly accessible format as well as in full. With both options, busy people can quickly grab the headlines, while those interested in a greater level of detail have the option to drill down.

- CAC representatives will continue to advocate on the need for public information sessions about Pickering Nuclear held every fall at the site's Information Centre and other venues in Durham Region.
- The CAC will continue to follow the progress of the Darlington Nuclear Refurbishment Project, seeking reassurance that the project continues to uphold safety standards and remains on time and on budget. They will continue to hold occasional joint meetings with the Darlington CAC on topics of common interest.
- Pickering Nuclear is also preparing for the end of commercial operations in 2024. OPG has already consulted members of the public and the CAC regarding the repurposing of the Pickering site. A wide range of ideas has come out of this consultation. The next step is evaluating the commercial viability and ease of implementation of suggested activities. CAC members anticipate that this discussion will become more focused as we get closer to the end of plant operations. ■



Pickering Nuclear personnel in discussion; plant in background

HOW CAN I JOIN THE CAC?

For details about joining or other information about the Council, including attending a meeting as a visitor, contact the CAC facilitator, **John Vincett, Public Dialogue Alternatives:** 416-961-4006 • jvincett@pdalternatives.com



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