

SPRING 2012

A proud part of the community since 1978

DARLINGTON NUCLEAR

Neighbours Newsletter

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OPG PROUD PARTNER OF VALLEYS 2000 FISH BY-PASS PROJECT

Construction of by-pass will preserve native fish species for generations to come

Each spring and fall Bowmanville Creek hosts migrations of spawning adult Rainbow Trout (Steelheads) & Brown Trout as well as Chinook, Coho & Atlantic Salmon. Unfortunately, as many fish are too large to make it past the Goodyear dam in the Bowmanville Valley, they're unable to spawn and their genetic traits are lost to future generations of fish, affecting fish stocks in our local tributaries as well as Lake Ontario.

Recently community members came together at Bowmanville's Applefest to launch a fundraising campaign in support of a Fish By-pass project. The by-pass will allow native species of fish to get past the dam and access spawning grounds upstream. Funded through community donations, construction of the by-pass is estimated to cost around \$375,000.

A viewing bridge will overlook the bypass so that the public and school groups can watch the fish make their way up the creek.

OPG is a collaborative partner in the Valleys 2000 Fish By-Pass Project along with the Municipality of Clarington, the Central Lake Ontario Conservation Authority (CLOCA), Veyance



Technologies (Goodyear), the Float Fishing Conservation Group, and St. Mary's Cement. For more information, or to contribute to the project, visit: <http://valleys2000.ca/>



In North America, Ptarmigans live in arctic and alpine habitats, as long as vegetation is present. Feathers cover their legs and feet, which keep them warm and help them walk in the snow.

A Rare Discovery at Darlington

Highlights of 2011 - Darlington Nuclear was host to a flutter of activity when 150 bird enthusiasts gathered to view a Willow ptarmigan, a species of bird last spotted in Durham over 100 years ago.

A photo taken of the rare bird at the site prompted station environment staff to track it, and confirm that it was a male Ptarmigan. A viewing was quickly organized and birders from across North America travelled to Darlington to see the ptarmigan and add another checkmark to their birding list.

Darlington Nuclear is home to more than 1,000 species of flora and fauna. While there have been no recent sightings of the ptarmigan at Darlington, this off-course visitor from the Arctic could still be on the property.



ISO 14001 Certification - Darlington Nuclear
Environmental Management System

ONTARIOPOWER
GENERATION



SVP Message Brian Duncan

As a 32-year veteran with Ontario Hydro/OPG's nuclear team, I was pleased to take the helm at Darlington late last year as the Senior Vice President,

following my colleague Stu Seedhouse's retirement. I first joined Ontario Hydro in 1980 as a Nuclear Operator and have held a variety of positions within the company, including an Authorized Nuclear Control Room Operator and Director of Operations and Maintenance.

As the new Senior Vice President of the Darlington station, I commit that we will continue to earn your trust by safely and efficiently operating our plant, maintaining open and transparent lines of communication, and by continuing to focus our collective efforts on the betterment of our community through outreach, sponsorship and employee volunteerism.

Darlington's vision to be among the best nuclear stations in the world extends beyond our station and into our community. Darlington employees are very proud to be a part of the Municipality of Clarington and respect the relationship we have with our community. I am proud of the performance of our employees, as we continue to operate the station with a focus on continuous improvement to meet and exceed the expectations and standards of our community and regulator.

I am pleased to tell you that we retained our ISO 14001 certification for Environmental Management System and reached an all-time high of more than 12 million hours worked without a lost-time accident.

Both these milestones are significant achievements and a source of pride. However, it's not the milestones we're most proud of, but the behaviours leading to the milestones -the safe, day-to-day work of effectively producing electricity for our community neighbours and all Ontarians.

I look forward to meeting many Clarington residents at our upcoming March Break program and other community events, and speaking with you about our plans and goals at Darlington Nuclear.

Brian Duncan,
Senior Vice President,
Darlington Nuclear

2011 Highlights - 11th Annual Family Safety Day Helping to keep your family safe

Families from across the community gathered once again at Clarington's Family Safety Day, where members of the Darlington Nuclear emergency response team provided fire safety tips at the one-day event, sponsored in part by OPG.

The event, held to increase safety awareness in our community, is hosted by the Municipality of Clarington in partnership with Clarington Emergency and Fire Services, Durham Regional Police Services, and OPG.

Six-month Public Comment Period Begins Proposed Deep Geologic Repository

A six-month public comment period has been announced by the federally-appointed Joint Review Panel (JRP) for Ontario Power Generation's proposed Deep Geologic Repository (DGR) project for low and intermediate level waste to be built in Kincardine.

The public comment period provides an opportunity for the JRP, the public and Aboriginal communities, to review and comment on the Environmental Impact Statement (EIS) and Preliminary Safety Report (PSR) documents. These documents and more information on the project can be found at www.opg.com/dgr.

All public comments will be posted to the Canadian Environmental Assessment Agency registry as part of the public

record for the DGR project.

The EIS and PSR conclude the DGR is not likely to result in any significant adverse residual effects to human health or the environment, given mitigation.

Once the JRP is satisfied all information, documents and comments have adequately addressed the environmental guidelines for the project, the public comment period will conclude and a public hearing will be held. The JRP will then submit a report to the federal Minister of Environment.

If you have any questions about the process or how you can get involved, please contact: dgrinfo@opg.com or call 519-368-1639.

What Is Low and Intermediate Waste?

Low level waste includes items such as mop heads, paper towels, and protective clothing that have become contaminated during maintenance activities.

Intermediate level waste consists primarily of used reactor core components, resins and filters used to purify reactor water systems.

Low and intermediate waste does not include used fuel bundles.

Ninety-five percent of the waste produced is low level and five percent is intermediate.

Ontario Power Generation reduces the amount of low and intermediate waste produced in its nuclear stations in a number of ways, including eliminating unnecessary packaging and using longer-lasting metal pallets rather than wood pallets.

Retention of Environmental Certification

Following an extensive bi-annual audit, Ontario Power Generation has successfully retained its ISO 14001 certification for Environmental Management Systems at Pickering Nuclear, Darlington Nuclear, and support organizations.

This quality standard and certification process exists to help organizations:

- minimize how their operations negatively affect the environment;
- comply with applicable laws, regulations, and other environmentally oriented requirements; and
- continuously improve environmental stewardship.

Safety Enhancements post-Fukushima

This month marks the first anniversary of the devastating earthquake and series of massive tsunamis off the northeast coast of Japan. That nation continues to recover from the physical devastation and tragic loss of human life and suffering. Ontario Power Generation and nuclear operators around the world have lent support to Japan's Fukushima Nuclear Power Plant and looked for opportunities to improve our own stations.

Our studies, and the Canadian Nuclear Safety Commission's, confirmed our stations are safe. We confirmed the geology at our sites is stable and our nuclear safety systems are robust – with redundant back-up power. A Fukushima-type accident could not happen here as our stations provide a strong defense against both external and internal threats to safety. We also identified opportunities for even greater measures of defense.

Here are some of the actions we've taken to address key lessons from Fukushima.

- Installation of new hydrogen mitigation equipment to prevent hydrogen build-up. This technology operates without the need of power.

- Portable diesel generators and pumps have been purchased to add flexibility in supplying essential fuel cooling through multiple paths. This is in addition to our numerous existing stand-by generators, emergency generators and auxiliary back-up power systems.
- We are providing added protection to used fuel bays and speeding up the process of safely storing used fuel in above ground dry-fuel containers.

There are other Fukushima-related projects underway or planned for implementation between now and the end of 2016. We are committed to strengthening the already significant robust safety systems at our nuclear stations. These initiatives represent a substantial investment in public safety and environmental protection.

When it comes to safety we believe we must constantly learn, constantly improve, and constantly earn the confidence of the communities and people we serve.

Regulatory Milestones Achieved for Darlington Refurbishment

Two important Darlington Refurbishment project milestones were reached at the end of last year.

OPG completed the Integrated Safety Review and submitted the findings to the Canadian Nuclear Safety Commission (CNSC). The report concluded the units at the Darlington station can safely operate for the duration of its current design life and for 25 to 30 years post-refurbishment, posing no risk to the public or station employees.

OPG also submitted the Environmental Impact Statement and technical documents in support of the Environmental Assessment for refurbishment and continued operations. OPG's studies conclude Darlington Refurbishment and continued operations will not result in any significant adverse effects, given mitigation.

The CNSC recently announced they will provide up to \$150,000 in participant funding to assist members of the public interested in taking part in the Environmental Assessment process.

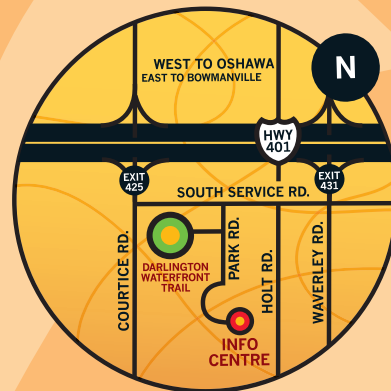
OPG continues to focus on the extensive front-end planning for Refurbishment which is a key to the success of the project. That includes establishing a clear definition of the scope of work to be done, as well as the cost and schedule prior to project execution.

A refurbished Darlington station will provide safe, reliable, cost-efficient electricity for the people of Ontario, for an additional 25 to 30 years. For more information about Darlington Refurbishment, including information about the CNSC's Environmental Assessment participant funding program, visit opg.com/power/nuclear/refurbishment.

Corporate Knights names OPG in Top 50

Corporate Knights Magazine has named Ontario Power Generation one of the 50 best Corporate Citizens in Canada. The magazine, a major advocate of "clean capitalism" and sustainable development, released its rankings in June. The corporate rankings were based on environmental, social and governance indicators as well as on the management of carbon, energy, water usage, and waste production.

OPG DARLINGTON NUCLEAR MARCH BREAK MADNESS MARCH 12 - 16, 2012



**JOIN US FOR FUN, FREE, ENTERTAINING AND EDUCATIONAL ACTIVITIES!
CHILDREN MUST BE ACCOMPANIED BY AN ADULT.**

Signs of Spring - FREE

Monday, March 12 - 10:00 a.m. to 2:00 p.m.

Darlington Waterfront Trail (see map)

Explore the trail, join Friends of Second Marsh for a fun nature activity, go for a horse-drawn wagon ride and warm up with a hot drink and yummy treat.

Community Skate - FREE

Tuesday, March 13 - 9:30 a.m. to 1:30 p.m.

South Courtice Arena (1595 Prestonvale Road, Courtice)

Pad A - Parents & Tots Skate; Pad B - General Public Skate. Gather up your skates, your helmet, your family & friends . . . skating is fun for everyone!

Star Light, Star Bright - FREE

Wednesday, March 14 - 10:00 a.m. to 3:00 p.m.

Sarah Jane Williams Heritage Centre, 62 Temperance St., Bowmanville

Pre-registration required! Register at opg.com/community

Prepare to be amazed as you gaze into outer space with Starlab, a unique and exciting learning exhibit.

Terrific Tree Tales - FREE

Thursday, March 15 - 9:30 to 11:30 a.m. OR 12:30 to 2:30 p.m.

Darlington Information Centre (see map)

Pre-registration required! Register at opg.com/community

Durham Folklore Storytellers present a unique 2012 World Storytelling Day program of stories, songs and crafts with a TREES theme. Program is suitable for ages 4 and up.

Breakfast with the Birds

Friday, March 16 - 10:00 a.m. to 2:00 p.m.

Create your own 'breakfast with the birds' feeder and discover what life was like for early pioneers. Purple Woods is located in Oshawa, ~ 20 minutes north of Taunton Road, at the intersection of Simcoe Street and Coates Road. **(Note: \$8 per family admission fee to Purple Woods. OPG-sponsored activities are FREE.)**

For more information: phone - 905-623-7122 or email darlingtonnuclear@opg.com

Neighbours



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