

SUMMER 2014

A proud part of the community since 1978

DARLINGTON NUCLEAR

Neighbours Newsletter

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THANKS FOR JOINING US - TUESDAYS ON THE TRAIL



Tuesdays on the Trail participants learned about wildlife with a biodiversity walk and cool experiments with the Clarington Public Library.

We're wrapping up another successful summer of Tuesdays on the Trail. Thanks to the hundreds of children and their families who joined us - we really enjoyed the opportunity to learn together along Darlington Nuclear's portion of the Water-front Trail. It was wonderful to see so many returning families and meet new ones too.

It's because of the generosity of our community partners that we are able to bring high-quality, educational, and free activities to the community each year. Thanks to our enthusiastic partners: Clarington Public Library; Lifestyle Karma Yoga; A Gift of Art; Central Lake Ontario Conservation Authority; Driftwood Theatre Group; and Kim Wheatley from Shawanaga First Nation Reserve.

Annual Environmental Monitoring Results for 2013

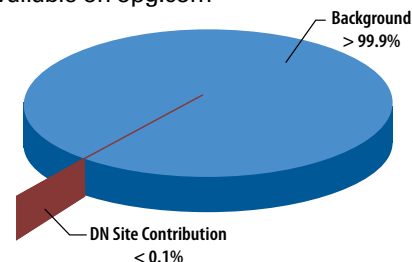
Environmental monitoring has confirmed the impact of OPG's nuclear stations on nearby communities continues to be a small fraction of the allowable regulatory limit. This has been the case for the entire operating history of both stations. In 2013, the highest radiation dose to members of the public from the Pickering or Darlington nuclear stations was less than one per cent of the regulatory limit, as demonstrated by OPG's extensive Environmental Monitoring Program (EMP).

Exposure for most people living in Durham Region is even less. "We practise the ALARA Principle (As Low As Reasonably Achievable) and set our own

internal targets at less than one per cent of the regulatory limit," said Glenn Jager, OPG's Chief Nuclear Officer. "We're proud to be within our target year after year." Darlington's annual public dose for 2013 was 0.6 microsieverts and Pickering's was 1.1 microsieverts. The annual regulatory limit set by the Canadian Nuclear Safety Commission is 1,000 microsieverts.

The results are based on routine monitoring of any station emissions and thousands of environmental samples taken from a variety of sources including air, lake water, beach sand, fish, vegetables, milk, and soil. An independent third-party expert verifies the results each year.

Results of the full monitoring report are available on opg.com



Typical Doses from Exposure to Natural and Anthropogenic Sources	
Source	Exposure (in microsieverts)
CNSC regulatory limit	1,000
Natural background in Durham	1,400
Chest X-ray	10
Airplane flight (2 hrs)	12
Pickering station contribution in 2013	1.1

ONTARIOPOWER
GENERATION



Jim Coles
Director, Emergency
Management & Fire
Protection
Ontario Power Generation

Public and employee safety has been a primary goal both in the design and operation of OPG's nuclear stations.

While the chance of a severe nuclear emergency is remote, it only makes sense to plan and practice the response to all manner of emergencies.

Just as my family practices what we would do in case of a fire in our home, at OPG we have comprehensive plans to ensure we're trained and ready for any event. And we maintain that readiness by doing frequent practices, drills and exercises.

For three days this past May, Ontario was the scene of unprecedented activity as more than 1,000 people and 54 Federal, Provincial and Municipal agencies, including OPG, participated in Exercise Unified Response; a large multi-jurisdictional nuclear emergency exercise designed to test how well all levels of government and OPG could work as a team during an emergency and to test the integration of our respective emergency plans. The exercise was also designed to test OPG's emergency mitigation equipment and the response capabilities of our own staff. No one agency could manage the response to an emergency alone. All levels of government, numerous organizations and the community at large have a role to play.

This was more than just an emergency response drill, it was an exercise in partnership and collaboration. We are very pleased with the outcome, which successfully demonstrated our preparedness and ability to collectively respond. One of the reasons we perform drills is to validate our emergency plans and look for ways to improve. Exercise Unified Response was a unique opportunity to do this and we will incorporate the lessons we learned to make our plans even better.

Like me, many OPG employees are proud to call Durham Region our home and enjoy raising our families here. Our employees take pride in making this community a healthy and vibrant place to live and work. We demonstrate this through the ways we contribute to the community as residents, and most importantly, in the way we safely operate our generating stations.



Never Be in the Dark with Your Safety

Residents living in the immediate vicinity of the Pickering and Darlington nuclear stations recently received a Nuclear Safety Guide in the mail. The handy reference tool, packaged as a working flashlight, explains what residents should do in the unlikely event of a nuclear emergency. It includes contact information for the partner agencies that are responsible for ensuring the safety of residents in the vicinity of the stations.

The guides are being distributed in partnership with the Region's Durham Emergency Management Office, the City of Toronto (Office of Emergency Management), Province of Ontario (Office of the Fire Marshall and Emergency Management) and Ontario Power Generation.

To request a guide, contact the Durham Emergency Management Office at (905) 430-2792.

Protecting You and Your Family | WHO IS IN CHARGE DURING AN EMERGENCY?

A number of organizations work together to ensure public safety in the unlikely event of a nuclear emergency, each with their own distinct area of emergency response. The Province of Ontario has the overall responsibility for managing the off-site response to nuclear emergencies. Ontario Power Generation, Emergency Management Ontario, and the regional and local governments work together to protect the public. Briefly, the nuclear emergency response is divided into three areas of responsibility.

OPG's responsibility is to make sure our reactors are operated, maintained and designed in such a way that accidents won't happen. If an accident occurs, our responsibility is to make sure it is controlled and radiation releases are minimized. We are also responsible for the safety of our employees.

The Province of Ontario, through Emergency Management Ontario, is responsible for the overall Provincial Nuclear Emergency Plan including

public safety. It has responsibility for making decisions on the proper level of public action and response. The Region of Durham, through the Durham Emergency Management Office, and local municipalities all have emergency plans in place. It is their emergency responders, the police, fire and ambulance crews, with support from a host of other groups, who make sure the emergency plans are implemented properly.

Residents near nuclear facilities are responsible for being informed, and knowing what to do in the unlikely event of an emergency. If an emergency were to occur, the province will alert people through a combination of sirens, automated telephone messages and radio, television and social media alerts in your area.

The people, plans and procedures that are put in place for a nuclear emergency response can also be called upon during more common emergencies like ice storms, train derailments or industrial accidents.

Focus on Emergency Response Capabilities



The Canadian Nuclear Safety Commission (CNSC) features interactive nuclear safety and emergency preparedness information at <http://nuclearsafety.gc.ca/cnsconline/fl/index-eng.cfm>

In May, OPG participated in a three-day field exercise at the Darlington nuclear station with more than 50 government agencies and regional organizations, including the Governments of Canada and Ontario, the Regional Municipality of Durham and the Municipality of Clarington.

Construction Update around Darlington Nuclear

The Ministry of Transportation (MTO) has begun tree clearing and construction work required for the Holt Road/401 interchange and the realignment of South Service Road for the Highway 407 East Project. To ensure the safety of trail and soccer field users, there will be a temporary closure of Darlington's portion of the Waterfront Trail (north section between Solina and Park roads) for the 2014 and 2015 seasons, as well as the temporary closure of the upper soccer fields for the 2014 season. The trail once reinstated will be designed and constructed to current municipal standards affording barrier-free access to users.

OPG has been working closely with the Ministry of Transportation, the Municipality of Clarington and the Darlington Soccer Club to minimize the impact to recreational and trail users. Should you have any questions, please contact our information line at (905) 623-7122 or DarlingtonNuclear@opg.com.

Regulator's Annual Report: Nuclear Plants Operated Safely

The Canadian Nuclear Safety Commission's (CNSC) annual safety assessment shows OPG's nuclear facilities continue to operate safely.

For the fourth year in a row, Darlington Nuclear received an overall integrated rating of "fully satisfactory," with all other Canadian nuclear power plants (including Pickering Nuclear) receiving a rating of "satisfactory." Ratings for both Pickering and Darlington remain unchanged from last year, which shows good sustained performance.

The ratings demonstrate the focus and effort by our stations and OPG's Nuclear Waste Management Division on continuous improvement. Each year, the CNSC releases a report on the safety performance of Canada's nuclear stations. To arrive at an overall integrated rating, stations are evaluated in 14 individual safety and control areas. These reports are part of a rigorous industry safety culture and demonstrate a high degree of transparency.

To view the CNSC 2013 Integrated Safety Assessment, visit the CNSC's website at: nuclearsafety.gc.ca



**OUT WITH
THE COAL.
IN WITH
THE NEW.**

This past April, Ontario Power Generation burned its last piece of coal to make electricity. By successfully phasing out coal, OPG has delivered the Province's commitment to cleaner air. It also happens to be North America's single largest climate change initiative.

And now, we're adding to Ontario's cleaner energy mix by expanding our hydroelectric generation and refurbishing the Darlington Nuclear station. We're also converting some of our coal stations to run on biomass - a renewable, plant-based fuel that's better for the environment and good for the North's economy.

To learn more about OPG's efforts to help build a reliable, efficient and clean electricity system for Ontario, visit opg.com.

Deep Geological Repository for Low and Intermediate Level Waste

UPDATE ON REGULATORY APPROVALS

There will be additional hearing days for OPG's proposed Deep Geologic Repository (DGR) project for the long-term management of low and intermediate level radioactive waste.

A federally-appointed Joint Review Panel held public hearings in the Fall of 2013 to consider OPG's environmental impact statement (EIS) and documents in support of a licence to prepare the site and construct the DGR. The panel has set aside two additional weeks this September for hearings in the community of Kincardine, the proposed location of the DGR. Interested parties can participate in the review of the EIS and licensing.

Since the hearings concluded last year, OPG has provided detailed information in response to additional requests from the panel. OPG remains confident in the safety of the proposed DGR project.

For additional information about the project and regulatory approvals process, please visit opgdgr.com



THANK YOU!



**WE COULDN'T HAVE
DONE IT WITHOUT YOU.**



We couldn't have done it without you.

OPG was recently recognized on the national stage for its commitment to safety, the environment, and building relationships in the communities in which we operate.

For building and growing relationships with First Nations and Métis people, the Canadian Electricity Association gave OPG the Sustainable Electricity(TM) Program's 2014 Social Responsibility award. And for stewardship to the environment and corporate sustainability, OPG has again been named to Corporate Knights Best 50 Corporate Citizens in Canada.

We want to share this recognition with all of the communities in which we operate. Without your support and your partnership, we could not be as proud as we are right now.

Thank you.

OFAH/OPG Tackleshare Program

Initiated by the Ontario Federation of Anglers and Hunters (OFAH) and proudly sponsored by OPG, the OFAH/OPG TackleShare Program gives new and young anglers the opportunity to go fishing at no cost.

Since its launch in 1998, the OFAH/OPG TackleShare Program has become a huge success with more than 140 loaner sites across the province, allowing thousands of new anglers to become involved in recreational fishing. Participating anglers simply sign out a rod and reel, as well as an assortment of tackle in the same way that they would borrow library material.

Local loaner sites include Darlington Provincial Park, and Durham Sustainability in Port Perry. Learn more at <http://www.tackleshare.com/>



Neighbours



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