

# Performance Report for Nuclear Waste Management

## Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation's Nuclear Waste Management facilities in the areas of safety, operations, and the environment. It also summarizes significant accomplishments achieved during the first quarter of 2019.

### Safety

#### Employee All Injury Rate

TRIF is a measure of the number of injuries involving OPG employees that result in a fatality, a lost time, requiring restricted work and requiring medical treatment per 200,000 hours worked. During the forth quarter, TRIF was zero. At the end of March Nuclear Waste Management achieved 8 years without a lost-time incident.



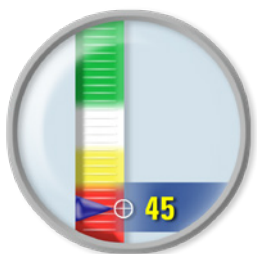
#### Transportation Safety

The transportation of waste to our Western facility from Darlington, Pickering and Bruce Power is managed by experienced and skilled drivers. In this quarter, all shipments were made safely and accident-free and the fleet safely traveled 97,420 additional kilometres. At the end of March 2019, 4.6 million kilometres were safely traveled.



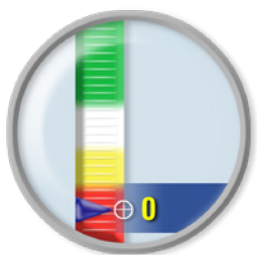
#### Environment - Spills to the Environment

Our waste facilities experienced no spills to the environment this quarter that were reportable to a regulatory authority. For detailed environmental information, please refer to the environmental data reports available on [www.opg.com](http://www.opg.com) under Reporting.



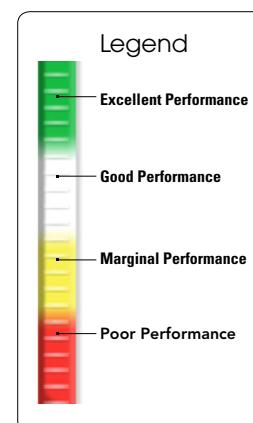
#### Operational Performance

A total of 45 used fuel Dry Storage Containers (DSC) were processed up to the end of Q1. This was 21 below the first quarter goal of 66. Recovery schedules are in place to meet the year end target to process and store 212 DSCs.



#### Incinerator Performance

In Q1 the incinerator upgrade project was in the final stages of commissioning and unable to meet it's production target of 116 cubic metres. It is on track to return to normal operations in the second quarter. The 2019 year-end production target is to burn 1,398 cubic metres of nuclear waste.



## About OPG's Nuclear Waste Management

OPG's Nuclear Waste Management (NWM) manages three sites. The Western Waste Management Facility (WWMF) in Bruce County receives and manages the low- and intermediate-level waste for Darlington, Pickering and Bruce Power nuclear stations. Low-level waste is volume reduced through incineration or compaction. Used-fuel Dry Storage Containers are managed at facilities located at Pickering, Darlington and WWMF.



Fukushima University Students Tour WWMF



Support for the Lake Huron Fishing Club



Saugeen Ojibway Nation DGR Consultation Session

The following summarizes items of interest or milestones achieved by Nuclear Waste Management and across OPG:

### Nuclear Waste Operation

- OPG reached an Interim Measures agreement with Saugeen Ojibway Nation (SON), to begin to address historic issues related to early development of the Bruce nuclear site without SON involvement. As well, OPG launched a series of meetings from February through June, to help SON members make an informed decision in their vote expected the end of 2019 on OPG's Deep Geologic Repository for low- and intermediate-level waste.
- OPG is now a World Leader in Digital Weld Identification. Nuclear Waste Management Dry Storage Facilities are the first locations in the world where the International Atomic Energy Agency (IAEA) has tested and implemented a new laser-mapping technique as a seal verification system on Dry Storage Containers. The system will uniquely identify the "weld fingerprint" of each lid. This scanning will replace the current metal seal system that has been costly and labour-intensive for both IAEA and OPG.
- A new waste container design for Intermediate-Level Waste (ILW) has improved efficiency and safety at OPG. The Intermediate Level Waste Utility Container (ILWUC) is a special design for Refurbishment waste, providing improved efficiency in transportation and storage. In the past, most of the ILW was shipped using drums and stored in trenches, which is a less efficient use of space. This new container will also reduce dose to workers. The ILWUC development was a joint initiative between NWM and Refurbishment. In addition to Darlington's Refurbishment this container can be used in Bruce Power's Major Component Replacement and for normal operational waste.

### OPG News

- OPG Board Chair Bernard Lord announced that OPG President and CEO Jeff Lyash will leave the organization March 31 to take on another role. Ken Hartwick, OPG Chief Financial Officer and Senior Vice President Finance, has been appointed as President and CEO, effective April 1.
- Nuclear facilities conduct Vacuum Building Inspection's (VBI) every 10 years. This year at Pickering, drones were used innovatively to forgo a traditional VBI and, instead, conducted inspections online – an industry first. This in turn will save time and resources.
- OPG, in partnership with the Six Nations of the Grand River Development Corporation and the Mississaugas of the Credit First Nation, completed its first-ever 44-megawatt solar facility at the former Nanticoke Generating Station site. The solar project is yet another OPG project completed on budget and on time.

### In the Community

During this quarter, NWM provided tours to three groups and held 15 information-sharing meetings with Bruce County's First Nations, Métis, and Community, Municipal and Provincial representatives. The Western site supported 14 community initiatives in Bruce County and participated in seven, such as: Kincardine Scottish Pipe Band Robbie Burns Event, Lake Huron Fishing Club, Kincardine Achievement Awards, Bruce County Museum & Cultural Centre's Family Heritage Day, and Southampton's Rotary Winterama.