

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 third quarter of 2018.

Safety

Total Reportable Injury Frequency (TRIF)

The 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 third quarter, the TRIF was zero. At the end of September Nuclear Waste Management achieved 7.5 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 safety traveled 115,000 additional kilometres. At the end of Sept. 2018, 4.4 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 under **News and Media**.



Operational Performance

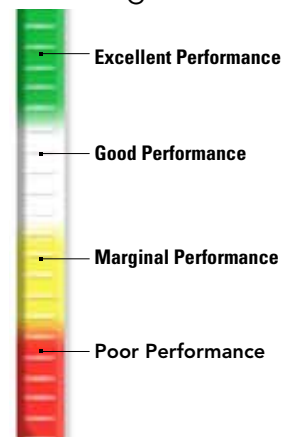
A total of 151 used fuel Dry Storage Containers were processed up to the end of September, which is 15 below the goal of 166. This was due to loading issues at Darlington and power equipment issues earlier in the year at the Bruce Site. Recovery plans have been implemented to reach the year-end target of 209.



Incinerator Production

Due to an extended planned outage the incinerator was unable to process waste in Q3 and did not meet its production target of 582 cubic metres. To reflect this delay, the year end solid waste volume reduction target will be adjusted from 1050 to 585 cubic metres.

Legend



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.



Environment tent at Port Elgin's Pumpkinfest



Grey-Bruce Habitat for Humanity building project



Saugeen POW WOW or HSM Rendezvous

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

Nuclear Waste Operation

- Nuclear Waste Management (NWM) has a key role to play in collaboration on refurbishments. Together OPG and Bruce Power are exploring types of waste packaging, projected volumes and waste minimization efforts for the Bruce Power Major Component Replacement (MCR) project. In the September, 2018 collaboration report, Powering Ontario Together, highlighted one example of a recent collaboration to create extra storage space for 16 steam generators, inside the Steam Generator Storage Building at our WWMF.
- OPG joined a Grey-Bruce Habitat for Humanity building project on the Saugeen (Bruce) Peninsula in August. The homes are being built for members of the Chippewas of Nawash Unceded First Nation, at the Neyaashiinigmiing community on Georgian Bay. The Nawash are one of two communities that form Saugeen Ojibway Nation (SON); the other is Saugeen First Nation near Southampton. Nawash is named after chief Nawash, who fought beside Tecumseh in the war of 1812. The OPG group, installed siding on the first of four homes in a new subdivision, and returned to the site this fall for further work.

OPG News

- The Canadian Nuclear Safety Commission (CNSC) announced its decision to grant OPG's Pickering Nuclear Generating Station a 10-year operating licence, valid from September 1, 2018 until August 31, 2028. OPG's President and CEO Jeff Lyash said, "OPG is very pleased with the CNSC's decision that will save Ontario's electricity customers up to \$600 million and preserve 7,500 jobs across Ontario."

- OPG and our project partners are now past the half-way mark on the Unit 2 Darlington Refurbishment schedule, with 65 per cent of the work complete — all safely executed with a record that is ten-fold better than the construction industry average. The rebuild of the reactor will provide 30 additional years of clean, reliable power production.
- OPG entered into an agreement to purchase Eagle Creek Renewable Energy in the United States. Eagle Creek currently owns and operates 63 hydroelectric facilities representing 216 megawatts (MW) of capacity across the U.S. (primarily in the Northeast, Midwest) 10 MW of ownership interests in 13 other hydroelectric facilities and two solar facilities in New England. This acquisition helps OPG maintain its scale of operations, facilitates a lower carbon future and will support further growth in electricity markets in the U.S., where we already have trading experience.

In the Community

During the third quarter of 2018, NWM provided tours to 10 groups and held 39 meetings with First Nations, Métis, municipal, federal and provincial officials and two Michigan, U.S. environment and energy agency staff. The Western site supported 17 community initiatives in Bruce County such as: Historic Saugeen Metis Rendezvous, Kincardine Lighthouse Blues Festival, the Teeswater, Paisley, Kincardine, Ripley fall fairs, Kincardine Scottish Festival, Bluewater Play House, Nawash and Saugeen POW WOWs, Energy Career Works, Kincardine Summer Music Festival, Southampton Summer Music Camp and Port Elgin's Pumpkinfest.