

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 2017.

Safety

Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. In the third quarter a medically treated accident occurred, which increased our injury rate to 0.73. During the fourth quarter, the AIR came down to 0.53, but above the year-target of 0.22. Nuclear Waste Management employees have worked over six years without a lost-time accident.



Transportation Safety

The transportation of radioactive waste to our Western facility from Darlington, Pickering and Bruce Power nuclear stations is managed by experienced and skilled drivers. In 2017, all shipments were made safely and accident-free. In Q4 the fleet safely travelled 81,800 additional kilometres. At the end of December, 4.1 million kilometres were safely traveled.



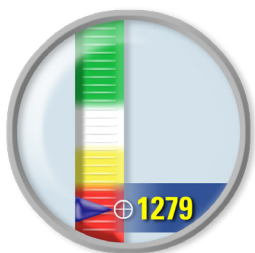
Environment - Spills to the Environment

Our nuclear waste facilities experienced no spills of pollutants (e.g., oil, chemicals) to the environment in 2017 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.



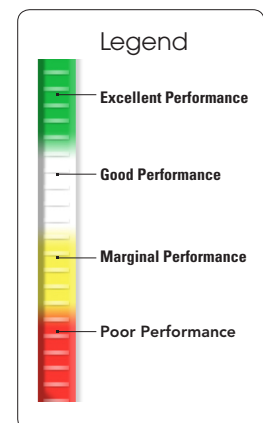
Operational Performance

A total of 229 used fuel Dry Storage Containers were processed up to the end of December, which met the year-end target of 229.



Incinerator Performance

At the end of the fourth quarter, the incinerator processed 1,279 cubic metres of solid waste. This was below the 2017 goal of 1,416 cubic metres due to an extension of a planned outage. Coming out of the outage, incinerator performance has been strong.



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.



Grey Bruce Forest Festival



OPG participation in seasonal events



Mildmay Rotary tours used fuel storage facility

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

Kincardine reaffirms DGR support

Mayor Anne Eadie submitted a letter to the federal Minister of Environment and Climate Change, Catherine McKenna, reaffirming Kincardine's support for the Deep Geologic Repository (DGR) project at the Bruce site. Mayor Eadie's letter was in response to correspondence from other mayors, farther afield, who oppose the \$1 billion lake-protection measure. As Mayor Eadie noted, an independent Joint Review Panel thoroughly reviewed the DGR project, concluding that it is based on sound science, protects the lake and environment, and should be built "now rather than later."

Currently, OPG is engaged in respectful dialogue with Saugeen Ojibway Nation (SON) regarding the DGR; and following the result of SON's community process, OPG will submit an updated analysis to the Canadian Environmental Assessment Agency, leading to an eventual decision by the Minister on the project's Environmental Assessment. While the low- and intermediate-level waste is safely stored at the surface right now, OPG continues to maintain that the DGR is the best way to protect the lake in the very long run – a lasting solution, and the right thing to do for future generations.

OPG News

- Canada's largest clean energy project remained on time and on budget as the refurbishment of Ontario Power Generation's (OPG) Darlington Nuclear Generating Station continued. Toward the end of the year it entered its next

major phase - the removal of the vital reactor components of Unit 2, such as end fittings, pressure tubes and calandria tubes. This phase will continue to June 2018. Work up to this phase included defueling and separating the unit from the rest of the station, and preparing the reactor for disassembly.

- OPG launched "Made in Ontario," a public awareness campaign to highlight our role in providing clean energy. It features a 30-second ad about the importance of clean air. Go to madeinontario.opg.com for other videos and stories.
- Pickering Nuclear on December 6 and 7 with more than 30 partner organizations successfully completed a simulated large-scale, nuclear emergency preparedness exercise called Exercise Unified Control (ExUC). Held every three years - the goals, to reinforce the integration of organizations and to help ensure the health and safety of the general public, were met.

In the Community

During 2017, NWM provided tours to 31 groups and held information-sharing meetings with First Nations, Métis, municipal, federal and provincial officials. The Western site supported 93 community initiatives in Bruce County such as Canada 150 events, 18 environment related initiatives, 17 festivals and fairs including Port Elgin's Pumpkinfest, Kincardine's Scottish Festival and Blues Festival. Through December OPG supported four Santa Claus parades, Saugeen Valley Conservation Authority's Christmas in the Country, and four local food banks.