

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 2017.

Safety

Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. During the first quarter, the AIR was zero, well below the year-end target of 0.22. Our employees have worked almost six years without a lost-time accident.



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 just over 88,600 additional kilometres. At the end of March 2017, almost four 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.



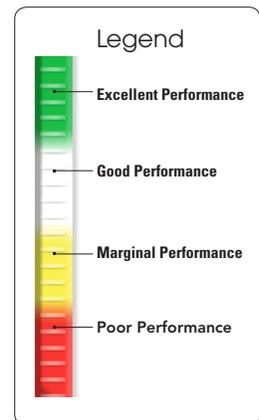
Operational Performance

A total of 64 used fuel Dry Storage Containers were processed up to the end of March, which is five above the goal of 59 for the first quarter. Production remains on track to meet the year-end target of 228.



Incinerator Performance

To the end of the first quarter, the incinerator processed 567 cubic metres of solid waste. This was above the goal of 481 cubic metres for this point in the year and well on its way to meet the year-end solid waste volume reduction target of 1,416 cubic metres.



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.



FAN Club School program



Kincardine 3 on 3 hockey



Saugeen Shores Senior Games

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

OPG's Deep Geologic Repository Project:

A lasting solution, for peace of mind

Progress continues toward an environmental assessment (EA) decision in 2017 on OPG's proposed Deep Geologic Repository (DGR) for low- and intermediate-level nuclear waste (L&ILW). Kincardine municipal council passed a resolution on Feb. 1, 2017, reaffirming its support for the DGR. The Canadian Environmental Assessment Agency (CEAA) extended the period of public comment on the DGR to March 6 to invite comments on information that OPG submitted in December 2016, including a study of the environmental effects of alternate locations for a DGR. CEAA is reviewing these findings – see www.ceaa.gc.ca. Once the Agency's report is completed it will be followed by the Minister's decision in late 2017.

Relicensing of Waste Management Facilities

The Canadian Nuclear Safety Commission (CNSC) held public hearings on April 12 and 13, 2017 in Ottawa, to consider OPG's applications to renew licences for both the Western and Pickering Waste Facilities. The applications sought continued operation of the Waste Management Facility's to support continued safe operations and refurbishment of Ontario's nuclear stations. The CNSC announced that it has renewed the ten-year operating license for WWMF. For more information visit opg.com.

In the Community

- During the first quarter of 2017, NWM provided tours to 9 groups and held 27 information-sharing meetings with First Nations, Métis, municipal, federal and provincial officials. The Western site supported 25 community initiatives in Bruce County such as: Winterama, the Canadian Mental Health Assoc Grey Bruce - FAN Club School program, Kincardine 3 on 3 Hockey, Roots of Bruce and Saugeen Shores Senior Games.

OPG News

- OPG and Canadian Nuclear Partners, plan to create isotopes at the Darlington Nuclear GS, which will help power space probes. OPG uses a similar isotope process in its Pickering units to create Cobalt 60 for use in the sterilization of surgical and medical supplies.
- The provincial government released its "Fair Hydro Plan," which is aimed at reducing the average customer's electricity bill by 25 per cent. As Ontario's lowest price generator, OPG is pleased to do its part to help lessen the burden on customers. As part of this plan, the government will introduce legislation that will enable OPG and the Independent Electricity System Operator (IESO) to work together to finance the Global Adjustment over a longer period of time and be instrumental in maintaining a reliable electricity system by ensuring sufficient generating capacity is available. Refinancing the Global Adjustment will provide immediate relief to customers. For example, someone using 750 kWh a month will save about \$26 a month
- After shutting down the Unit 2 reactor at the Darlington Nuclear Generating Station last fall, the Darlington Refurbishment project hit another milestone when the team successfully defuelled and isolated the unit from the power plant on April 9. This work included removing 6,240 fuel bundles, draining critical nuclear systems and installing physical barriers between the shutdown reactor and the power plant. This milestone was achieved safely and ahead of schedule, concluding Segment 1 of the Unit 2 refurbishment schedule. The project is now progressing through Segment 2A, which involves opening both airlock doors, removing interferences, installing shielding, and severing pressure tubes and bellows.