

Performance Report for Nuclear Waste Management

Q1 2021 Results

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 2021.

Safety

Total Recordable Injury Frequency:

TRIF is a measure of the number of injuries involving OPG employees that result in a fatality, lost time, restricted work or medical treatment per 200,000 hours worked. An injury occurred in Q1 placing the TRIF at 1.97. The year-end target is not to exceed 0.13.



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 travelled 135,609 additional kilometres marking over 5.49 million kilometres safely travelled to-date.



Environment – Spills to the Environment

There were no spills to the environment at our waste facilities that were reportable to a regulatory authority. For detailed environmental information, please refer to the environmental data reports available on www.opg.com under Reporting.



Operational Performance

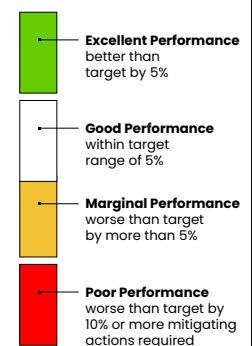
A total of 58 Used Fuel Dry Storage Containers (DSC) were transferred up to the end of Q1, coming in below the target of 60. The year-end commitment is to meet 227 DSC's.



Waste Minimization

Through incineration and compaction, a total of 765 cubic metres of low-level waste was processed. This was above the year-to-date target of processing 663 cubic metres. The year-end goal is 3,796 cubic metres processed.

Legend



About OPG's Nuclear Waste Management

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



WWMF Gold Certification.



McMaster Innovation Park.



Incinerating nuclear by-products.

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

Nuclear Waste Operation

- OPG's WWMF was awarded Gold Certification from the Wildlife Habitat Council in recognition of its biodiversity program at the Bruce nuclear site. The program included: protection for turtles and birds, planting trees, and public education programs. This award demonstrates WWMF's high standards of environmental stewardship.
- The WWMF incinerator continued to process waste efficiently, due to refurbishment and maintenance programs. Operating the incinerator safely and efficiently, focusing on low-level waste minimization, demonstrates OPG's commitment to environmental stewardship.
- The Pickering Waste Management Facility's new Used Fuel Storage Building 4 (SB4) met Canadian Nuclear Safety Commission's commissioning requirements and was approved to proceed with operation to store 624 DSCs. Construction of this 70,000 sq. foot building began in July 2019 and was completed in December 2020.

OPG News

- The Western Waste Management Facility in Q1 continued to support a program of research into advanced methods and technologies

to sort and recycle nuclear by-products. In 2020, Laurentis Energy Partners, a company of OPG, in partnership with McMaster University initiated the Clean-Energy Materials Sorting and Recycling Research Initiative. The initiative is exploring new techniques to manage low-level nuclear materials, in a custom-designed research laboratory at McMaster Innovation Park in Hamilton, Ontario.

- Darlington's Unit 1 Nuclear Generating Station reactor took a well-deserved break, after a world-record run of 963 days of continuous operation. As a key component of OPG's commitment to be a net-zero carbon company by 2040, the 878-megawatt unit was taken offline February 5 for inspection and maintenance outage, prior to refurbishment in 2022.

In the Community

Due to COVID-19 restrictions, no community tours were provided and information-sharing meetings with Bruce County's First Nations, Métis, and Community representatives continued through virtual options. Support for the Bluewater Regional Science and Technology Virtual Fair, Port Elgin Breakers Swim Team, and OPG's Virtual Power Kids continued for youth in Bruce County.