

Performance Report for Nuclear Waste Management

Q3 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 third 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 in Q1 placed the TRIF at 1.97. With no injuries since then, it now sits at 1.20. The year-end target of 0.13 is not expected to be reached.



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. The fleet safely travelled 107,000 additional kilometres and marked over 5.76 million kilometres safely travelled to-date.



Environment – Spills to the Environment

There were no spills to the environment at our 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

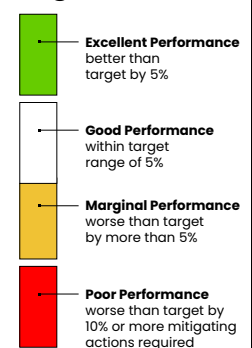
A total of 194 Used Fuel Dry Storage Containers (DSCs) were transferred up to the end of Q3. This was above the goal of 191. The year-end commitment is to transfer 227 DSCs across all three sites.



Waste Minimization

The incinerator processed a total of 1,320 cubic metres of low-level waste up to the end of Q3. This was above the year-to-date target of 1,300. The 2021 year-end projection is to process 1,796 cubic metres of nuclear waste.

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 the 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.



REACH



Pumpkin Pack Wednesdays



Peregrine Falcon Program

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

Nuclear Waste Operation

- In July, Pickering Waste Management Facility (WMF) employees reached a new safety record. Through continuing to work safely employees achieved 27 years of service without a lost time injury.
- Darlington WMF began receiving the first Retube Waste Containers loaded with combined calandria and pressure tube (CT-PT) waste from Darlington Unit 3 refurbishment. Simultaneous removal and processing of CT-PT is a first. This shortens the time required for de-tubing the reactor and reduces the number of containers required for storage.
- OPG continues to reduce its environmental footprint by reducing its nuclear by-product volumes. Incineration reduces the volume up to 90 percent. After completing several updates to the WWMF's incinerator equipment earlier in the year, Western Operations is on track to out-perform the incineration year-to-date targets.

OPG News

- OPG was awarded Gold Designation from the Canadian Council for Aboriginal Business Progressive Aboriginal Relations (PAR) program. PAR Gold companies demonstrate sustained leadership in Indigenous relations and

commitment to working with Aboriginal businesses and communities, through innovative programs and engagement. Previously, OPG held the silver PAR designation.

- In 2020, OPG released its Climate Change Plan and in this quarter launched Net-Zero News, a quarterly digital newsletter to update the company's progress to become a net-zero carbon company by 2040.
- OPG's plan to host a grid-size SMR at Darlington by the end of 2028 is proceeding. Through borehole drilling, geoscientists will assess the site for potential future Small Modular Reactor (SMR) foundations. The project is advancing engineering and design work with three SMR developers: GE Hitachi, Terrestrial Energy and X-energy.

In the Community

During this quarter, information-sharing meetings with Bruce County's First Nations, Métis, and community representatives continued through conference calls and virtual options. Although many fairs and events were cancelled, the WWMF managed to support: Pumpkin Pack Wednesdays, REACH Centre, Canadian Peregrine Foundation, Kincardine Blues Festival, Paisley Blues Festival and Hope for Hospice.