

# Performance Report for Nuclear Waste Management

Q1 2014

January 1 to March 31

## Performance Update

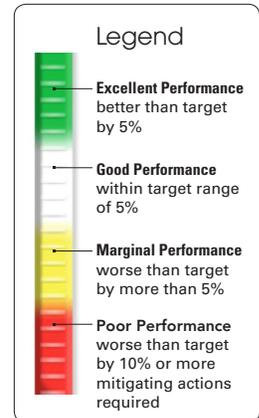
As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation’s Nuclear Waste Management Facilities in the areas of safety, operations, environmental performance and significant accomplishments achieved during the first quarter of 2014.



### Environment - Performance Index

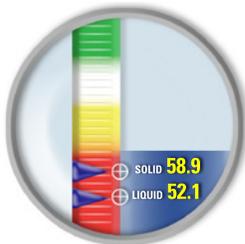
During the first quarter, our waste facilities continued to demonstrate exceptional performance. No spills to the environment were recorded.

Also during this first quarter, the 2013 Ministry of the Environment yearly required incinerator stack testing results were received and all parameters were well below the Environmental Compliance Approval limits.



### Operational Performance

A total of 48 used fuel Dry Storage Containers (DSC's) were processed in the first quarter. This is below the 62 planned for this quarter. This was due to adverse weather, station and transporter issues. The target for the year is to process 220. Recovery schedules are in place to meet the year end target.



### Incinerator Availability - per cent of time operating

A three-year reliability plan is in place to improve equipment reliability and increase working performance of the WWMF Incinerator for low level waste. During this period the incinerator was available 58.9 per cent of the time to burn liquid nuclear waste and 52.1 per cent for solid nuclear waste (the quarterly targets were 73.3 per cent and 68.3 per cent respectively). Incinerator performance was below target due to a forced shut down. The availability target for the year to burn liquid waste is 56.3 per cent and 68.1 per cent for solid waste.

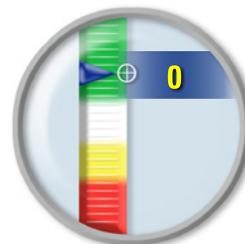
## Safety

### Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. During the first quarter our AIR was 0 which was excellent and well below the year-end target of 0.89 (lower is better). Our employees have worked just under three years without a lost-time accident.

### Transportation Safety

The transportation of waste to Western from Darlington and Pickering is managed by experienced and skilled drivers. In this period all shipments were safely made – accident free. In this quarter the fleet safely traveled just over 56 thousand additional kilometers. This adds to the 3 million kilometers safety traveled up to the end of 2013.



## About OPG's Nuclear Waste Management Division

OPG's Nuclear Waste Management Division (NWMD) 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. At this facility low level waste is received and its volume-reduced through incineration or compaction. Facilities that manage interim Used Fuel Dry Storage containers are located at Pickering, Darlington and at the WWMF.



Support for Rotary's Winterfest activities



Saugeen Shores PLAY program winning class



Port Elgin Salvation Army's new Food Bank van

Keeping you informed about milestones and items of interest achieved by the Nuclear Waste Management Division and across Ontario Power Generation:

### OPG's DGR Project

Additional hearing days will be held for OPG's proposed Deep Geologic Repository (DGR) Project for the long-term management of low and intermediate level radioactive waste. OPG and the Canadian Nuclear Safety Commission (CNSC) have also been asked to provide additional information to the Joint Review Panel (Panel or JRP) about the DGR Project. Once the Panel has received adequate responses to its information requests, it plans to schedule additional hearing days. The initial federal JRP hearings for the DGR Project were hosted in Kincardine and Saugeen Shores last fall.

Once OPG completes the information requests, the following are the next steps in the regulatory approvals process:

- JRP to hold additional Public Hearing Days;
- JRP to provide notice of decision to close the public registry;
- Registered interveners and proponent have opportunity to provide closing comments;
- JRP has 90 days to submit Environmental Assessment Report to federal Minister of Environment once record closes;
- Environment Minister has 120 days to render decision; and
- JRP will have 90 days to deliberate site preparation and construction licence.

For additional information about the DGR Project and regulatory approvals process, please visit [www.opgdgr.com](http://www.opgdgr.com)

### Nuclear Waste Management

- The CNSC issued a Licence to Abandon for OPG's Bruce Heavy Water Plant (BWHP) following a Feb. 3, 2014 hearing. The BWHP produced heavy water from 1973 until March 1998. In 2004, OPG was issued a decommissioning licence and has since completed the decommissioning of the facility. OPG can now use the site for other industrial purposes.

- The Canadian Nuclear Safety Commission (CNSC) completed its third compliance inspection for 2013/14 (their fiscal year runs from April to March) at the Western Waste Management Facility. The facility continues to meet CNSC's inspection criteria and expectations. Once again its excellent housekeeping practices were noted.
- Efforts to reduce the amount of waste stored on an interim and long-term basis are showing results. The WWMF Likely Clean program is effectively reducing waste produced during operations. At the Stations, a waste sorting and segregation pilot has demonstrated we can significantly reduce original waste volumes.

### OPG News

- Starting this year close to 100 per cent of the electricity OPG produces now comes from our nuclear and hydroelectric facilities that are virtually free of smog or climate change-causing emissions. Our remaining thermal plants – Lennox, Thunder Bay and Atikokan – will continue to play a key role in providing capacity for the province. Atikokan and Thunder Bay will be converted from burning coal to renewable biomass as a fuel source.

### In the Community

- The NWMD continues to share information about our operations with various groups and the public. During the first quarter of 2014, the NWMD provided tours to five groups and held numerous stakeholder meetings with various municipal, federal and provincial officials. The Western site supported 19 community initiatives in Bruce County such as International Women's Day, Elmwood Homecoming, Explore the Bruce, a van for the Port Elgin Food Bank and Saugeen Shores Kids Winter PLAY Challenge.