

Performance Report for Nuclear Waste Management

THIRD QUARTER OF 2011

This report discusses performance for OPG's Nuclear Waste Management Facilities in the areas of safety performance, waste processing and production availability, environmental performance, and significant accomplishments achieved during the third quarter of 2011.



OPG Continues to Maintain a High Standard of Public Safety

Ontario Power Generation (OPG) maintains and builds upon a strong safety culture at each of our nuclear waste facilities to ensure that there are no public or employee safety impacts as a result of our operations.

All Canadians are exposed to naturally-occurring radiation, most from the sun and from radon which is found in soil. The average exposure of Canadians is 1,770 microsieverts a year.

For people living near our nuclear facilities, based on their actual lifestyle characteristics and food consumption patterns, the estimated additional exposure for all of 2010 was less than one half of one percent of the 1000 microsieverts permitted by the Canadian Nuclear Safety Commission regulation.

A Focus on Safety

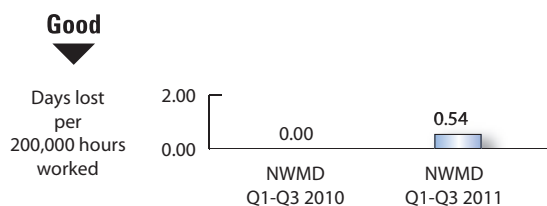
OPG's Nuclear Waste Management Division (NWMD) manages three sites. The Western Waste Management Facility (WWMF) in Bruce County receives and manages the low and intermediate level waste for Darlington, Pickering and Bruce Power nuclear stations. Facilities to manage interim Used Fuel Dry Storage containers are located at Pickering and Darlington and at the WWMF.

At all of OPG's nuclear waste facilities, we are on a continuous journey toward excellence in our safety performance. We strive for zero injuries and to create a work environment where the more than 300 employees take personal responsibility to build safety into every task they perform.

The Pickering Waste Management Facility which has operated without a lost time accident since starting operations in 1994, is testimony to the commitment by staff. Another example of safety excellence within our division during this quarter is the positive results received from the Canadian Nuclear Safety Commission following inspections at all OPG waste facilities.

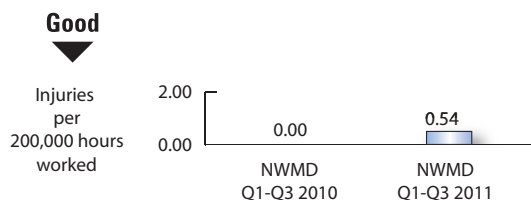
Employee Accident Severity Rate

Our employee safety performance is regularly measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. During the third quarter of 2011 the NWMD had no lost time accidents and recorded 0.54 days lost per 200,000 hours worked. Not only is this down from 0.80 reported in our Q2 report, this meets the Canadian Electricity Association (CEA) top quartile performance.



Employee All Injury Rate

Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the third quarter we recorded 0.54 injuries achieving good performance and better than the top quartile industry performance target set by the CEA.



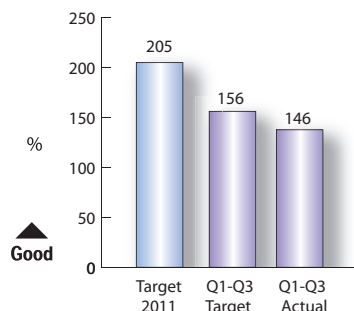
Reliability and Safe Transportation

Another measure of performance is capability factor. This represents the amount of waste managed (received and processed) as a percentage of the potential maximum waste that could be processed over the same period. In the third quarter the ability to accept low and intermediate level waste recorded a very high unit

capability factor of 100 per cent which exceeds NWMD's 95 percent target.

The management of used fuel Dry Storage containers (DSC's) was also tracked. The 146 DSC's processed across all three facilities was 6.4 percent below target, which continues to improve from second quarter (at 10 percent below) and first quarter (15 percent below) production rates. The facilities continue to focus on safe production.

Processing Targets for DSC's across all sites



The transportation of waste to and from Western from Darlington and Pickering is managed by experienced and skilled drivers. After making 155 shipments during this period and a total of 429 year to date there were no transportation accidents and the preventable collision rate (which is a factor of the number of safe trips over 1.6M km) was very good at 0.7 and lower than the year to date target of 1.3.

Protecting the Environment

During the third quarter of 2011, our nuclear waste facilities did not record any major or moderate spills to the environment or incur any environmental infractions.

Milestones and Items of Interest

Some of the milestones and items of interest achieved by NWMD and across OPG include the following:

- Corporate Knights Magazine named OPG as one of the 50 best Corporate Citizens in Canada. The magazine, a major advocate of "clean capitalism" and sustainable development, released its ranks in June 2011. The corporate rankings were based on environmental, social and governance indicators as well as on the management of carbon, energy, water usage and waste production.
- OPG Waste management reviewed the initial lessons learned from the earthquake in Japan, and re-examined the safety cases for the Pickering, Darlington, and the Western Waste Management Facility's. Our facilities are safe and continue to meet all safety design and licence requirements. Some areas for improvements were identified to increase our already safe margin and these are being further evaluated for implementation.

- OPG continued to educate police, fire departments and emergency response agencies along the routes that our radioactive transportation program travels along. A total of eighteen presentations were delivered up to the end of the third quarter.
- In the third quarter our Transportation Emergency Response Team were thoroughly tested and evaluated to ensure our procedures are robust and our trained and experienced personnel can respond to a potential transportation event. Continuous training and testing with realistic drills and exercises ensures our staff maintains the necessary skills and abilities.
- OPG was a key sponsor and contributor at the September Waste Management, Decommissioning and Environmental Restoration conference in Toronto, organized by the Canadian Nuclear Society. OPG presented papers on our operations and projects to the group of international participants who were impressed with our vision and safety record. OPG showcased its waste management expertise to delegates at the conferences exhibit area and while touring OPG's Western and Darlington Waste Management Facilities.
- The Western Waste Management Facility finished the construction of a twelfth building for the interim storage of low level waste.
- The NWMD establishes strategies and systems to improve environmental and safety standards and is certified to the international environmental ISO 14001 and OHSAS 18001 safety standards. Demonstrating our commitment to improve upon standards this September the NWMD successfully completed a surveillance audit for both.



Do you have any questions about our performance results? If so, please give call us at 519 361-6416 x 2764 or email nwmd@opg.com.