

Performance Report for Nuclear Waste Management SECOND QUARTER OF 2011

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

One measure demonstrating the public is protected at all times from radiation emissions is provided by the continuous monitoring of emissions at the perimeter of our nuclear facilities. Some people are not aware that we are all exposed to naturally-occurring radiation, most from the sun and from radon which is found in soil. The average exposure for 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 per year limit imposed by the Canadian Nuclear Safety Commission.

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 the interim storage of used fuel are located at Pickering, Darlington sites and at the WWMF.

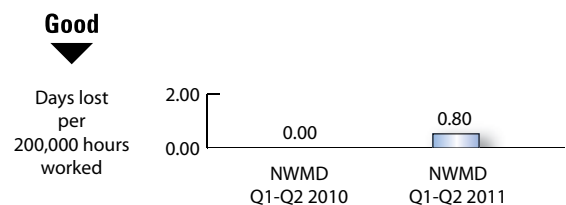
At all of OPG's nuclear waste facilities, we are on a continuous journey toward excellence in our safety performance. We strive for zero injuries and to create a work environment where the more than 300 employees working in the NWMD take personal responsibility to consistently build safety into every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

The Pickering Waste Management Facility which continues to operate without a lost time accident, since starting operation back in 1994, is testimony to the commitment by staff. Another

example of safety excellence within our division is the positive reports received from the CNSC following Inspections at all of the waste facilities.

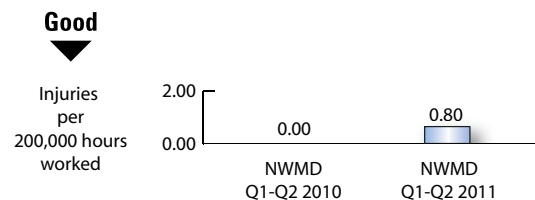
Employee Accident Severity Rate

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 second quarter, performance NWMD recorded 0.80 days lost per 200,000 hours worked. This is excellent performance, and 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 second quarter we recorded 0.78 injuries achieving good performance and better than the top quartile industry performance target set by the CEA.

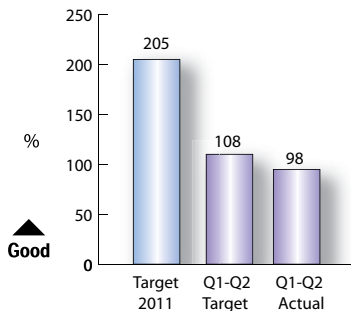


Reliability and Safe Transportation

Another measure of the divisions performance is its capability factor which 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 second quarter the ability to accept low and intermediate level waste recorded a very high unit capability factor of 100 per cent, up from 95 per cent in the first quarter.

The management of used fuel in Dry Storage Containers (DSC's) is also tracked. The number of DSC's processed across all three facilities was 10 percent below target for this point in the year, which is up five percent from the first quarter performance. All three facilities remain on track to meet year end targets.

Processing Targets for DSC's across all sites



The transportation of nuclear waste to the WWMF from Darlington and Pickering sites is managed by experienced and skilled drivers. After making 155 shipments during this period there were no transportation accidents and the preventable collision rate was very good at 0.7 and lower than the year to date target of 1.3.

Protecting the Environment

During the second 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:

- OPG nuclear 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 Facilities. The potential impacts to the workers, the public, and the environment, from potential extreme events were assessed, as well as the need for any mitigating measures. No significant gaps requiring corrective actions were identified during these reviews. Some possible improvements and enhancements were identified and these are being further evaluated for potential implementation.

- OPG continued to educate police, fire and emergency planning departments along the routes that our radioactive transportation program travels along. A total of sixteen presentations were delivered.
- In June, the Canadian Nuclear Safety Commission released its annual report assessing the safety performance of Canadian nuclear stations in 2010. Darlington Nuclear received a fully satisfactory (FS) rating and all other OPG stations received a satisfactory (SA) rating.
- In May, there was an historic event at the largest and most economical clean energy project in Ontario as Big Becky broke through to daylight. Completion of the tunnel boring machine's 10.2 km journey beneath the City of Niagara Falls is a major milestone in the project. When completed in 2013, OPG's Niagara Tunnel will provide enough additional water to the Sir Adam Beck stations to generate clean energy for about 160,000 homes.
- OPG recognized three individuals in the waste division at the Annual Power Within Awards for demonstrating a high calibre of personal commitment. Two individuals were recognized for their work on radiation protection and another for community involvement with Women's House of Grey Bruce.
- OPG successfully completed three weeks of public hearings on the Darlington New Nuclear Project Environmental Assessment and Licence to Prepare Site application, held March 21 to April 8 in the Municipality of Clarington. The hearings marked the final public phase of the environmental review. Following the 'official closure of record' announced on June 3, the Joint Review Panel delivered their report to the Federal Minister of Environment on August 25.



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.