

Performance Report for Darlington Nuclear FIRST QUARTER OF 2011

This report discusses performance for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the first 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 stations to ensure that there are no public or employee safety concerns as a result of our operations.

In the four decades that nuclear energy has served Canada's electricity needs, no member of the public has ever been harmed as a result of a radiation emission from a nuclear power plant or waste storage facility. Continuous monitoring of radiation exposure at the perimeter of our stations consistently demonstrates the public is protected at all times from radiation emissions. All Canadians are exposed to naturally-occurring radiation, mostly 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 Darlington Nuclear, based on their actual lifestyle characteristics and food consumption patterns, the estimated additional exposure for all of 2010 was 0.6 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than the 1,000 microsieverts permitted by the Canadian Nuclear Safety Commission regulation.

Keeping our employees safe

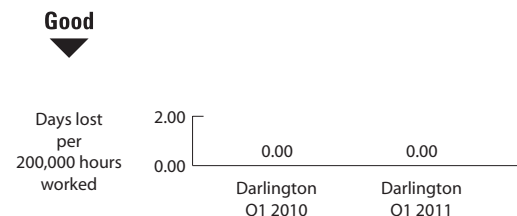
OPG's primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in the ZeroQuest program and recognizes OPG's efforts to sustain and continuously improve our safety performance, health and safety management systems, and safety culture.

OPG's pursuit of Platinum began in 2005, when OPG was first recognized with the Gold Award, following detailed document reviews and employee interviews at Corporate, Nuclear, Thermal and Hydro sites. OPG succeeded in achieving Platinum by sustaining this Gold level over the next four years based on annual assessments at OPG sites.

At OPG's nuclear operations, we are on a continuous journey toward excellence in our safety performance. We strive for zero injuries and to create a work environment where employees at Darlington Nuclear take personal responsibility to consistently build safety into every task they perform.

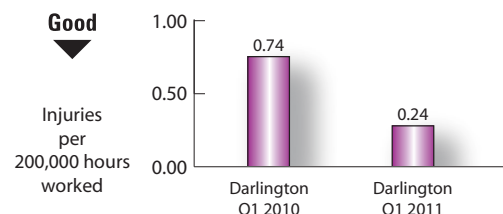
Employee Accident Severity Rate

Darlington's employee safety performance is 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. Overall safety performance is strong at OPG's nuclear sites where most of the safety metrics are considered industry top quartile, including the All Injury Rate (AIR) and the ASR. During the first quarter, Darlington recorded zero days lost per 200,000 hours worked. This is excellent performance and better than 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 first quarter, Darlington recorded 0.24 injuries per 200,000 hours worked. This is excellent performance and better than CEA top quartile industry performance.

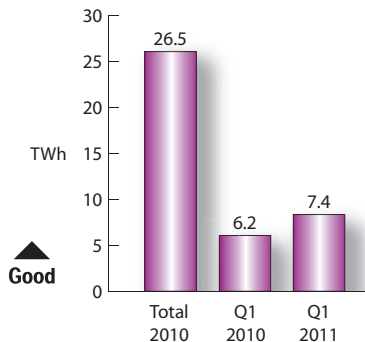


Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors is a top priority. During the first quarter of 2011, Darlington employees achieved over 9.7 million hours without a lost-time injury.

Electricity Production

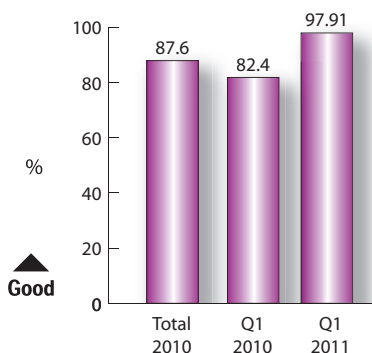
Darlington Electricity Production (TWh)



Darlington's units demonstrated excellent reliability during the first quarter of 2011. Darlington produced 7.4 TWh of electricity compared to 6.2 TWh for the same period in 2010. Unit 1 was shut down at the end of the month to allow for a planned maintenance outage.

Unit Capability Factor

Unit Capability Factor (%)



Another measure of the station's performance is its unit capability factor, basically a percentage of perfect generation a unit is capable of producing during a specified period. Darlington had an excellent record during the first quarter achieving 97.91 per cent unit capability factor.

Protecting the Environment

During the first quarter of 2011, Darlington Nuclear did not record any major or moderate spills to the environment.

Milestones and Items of Interest

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

- Through the World Association of Nuclear Operators (WANO), OPG has offered assistance to Japan in its recovery efforts at the Daiichi Nuclear Power Plant. A co-ordinated effort by the Canadian nuclear industry is underway to learn and share from the Japan crisis. All Canadian nuclear operators have committed to the Canadian Nuclear Safety Commission to review the safety and accident management processes of our operations and that timely action is taken to address any lessons learned from Fukushima Daiichi. Progress will be reported to both the CNSC and WANO.
- OPG Nuclear employees raised money in support of relief aid directed to the natural disasters in Japan where lives were impacted by the earthquake and tsunami. More than \$50,000 was collected in support of charitable organizations.
- OPG announced a \$300,000 contribution to the Rouge Valley Ajax-Pickering hospital as part of its continuing commitment to health care in the Durham community. The donation is in support of the Image is Everything campaign to raise funds for the purchase of an MRI machine.
- Darlington Nuclear and Pickering Nuclear hosted more than 4,000 local residents during our March Break activities with a focus on environmental, science and recreational activities.



Do you have any questions about our performance results? If so, please give us a call at 905-623-7122.