

Performance Report for Darlington Nuclear

SECOND 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 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 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

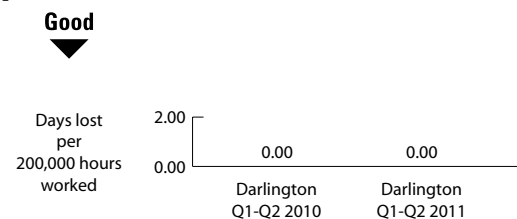
OPG's primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in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

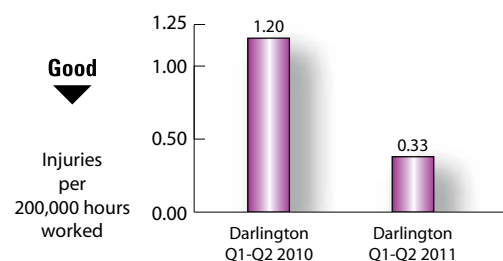
Employee Accident Severity Rate

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 second 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.



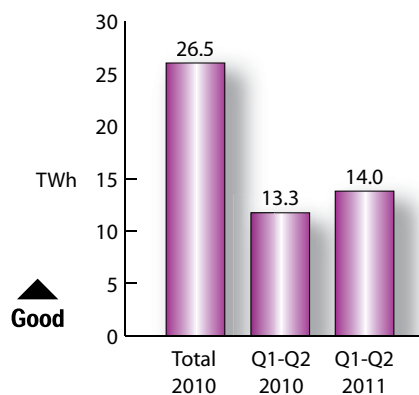
Employee All Injury Rate

Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the second quarter, Darlington recorded 0.33 injuries per 200,000 hours worked. This is excellent performance and better than CEA top quartile industry performance.



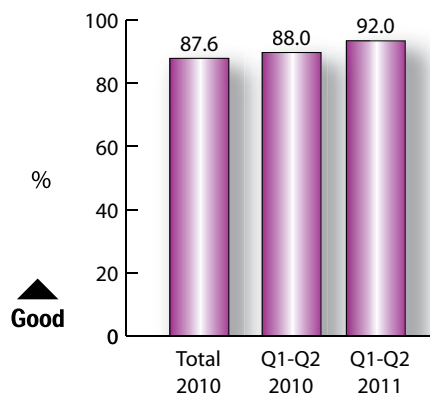
Electricity Production

Darlington Electricity Production (TWh)



Darlington increased its generation output in the first half of 2011. From January to June, Darlington's four units produced 14.0 TWh of electricity, up from 13.3 TWh for the same period in 2010. During that time, a 60-day maintenance outage on Unit 1 was completed safely and ahead of schedule.

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's improved performance over the same period in 2010 is reflected by its strong unit capability performance.

Protecting the Environment

During the second 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:

- 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 rating and all other Canadian stations received a satisfactory rating.
- OPG successfully completed three intensive 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.
- In support of biodiversity in the community, Darlington Nuclear hosted its annual Scouts Canada tree planting event in May. OPG staff and community volunteers helped plant 500 large Silver Maple, tamarack and White Spruce trees on the Darlington site.
- In May, there was a historic event in the largest and most economical clean energy project in Ontario as Big Becky broke through to daylight. Completion of the tunnel's 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.



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