

Performance Report for Darlington Nuclear

THIRD QUARTER OF 2010

This report discusses performance for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the third quarter of 2010.



OPG continues to maintain a high standard of Public Safety

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. An excellent measure demonstrating that the public is protected at all times from radiation emissions, is provided by the continuous measurement of radiation exposure at the perimeter of our stations. 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 Darlington Nuclear, the estimated additional exposure during the second quarter in 2010 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.3 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.

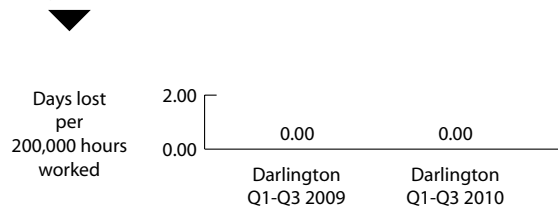
OPG's pursuit to Platinum began in 2005, when OPG was first recognized with the Gold Award, following detailed document reviews and employee interviews at Corporate, Nuclear, Thermal and Hydro sites. OPG succeeded in achieving Platinum by sustaining this Gold level over the next four years based on annual 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 more than 2,500 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. During the third 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.

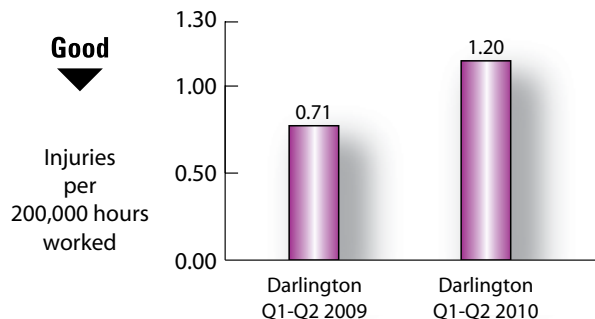
Good



Employee All Injury Rate

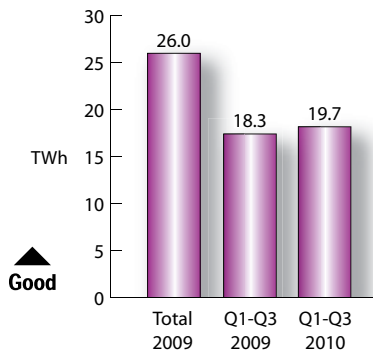
Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the third quarter, Darlington recorded 0.85 per 200,000 hours worked achieving excellent performance and below the top quartile industry performance category set by the CEA.

Good



Electricity Production

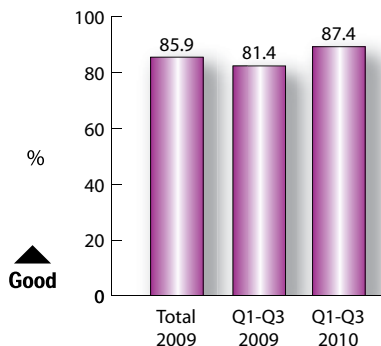
Darlington Electricity Production (TWh)



Darlington's four units produced 19.7 TWh of electricity, up from 18.3 TWh for the same period in 2009. Overall performance was affected due to equipment challenges on Unit 2 fuel trolley systems. During the first nine months of 2010, Darlington provided 18 per cent of Ontario's electricity demands.

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 achieved improved performance compared to the same period last year recording an 87.4 per cent Unit Capability Factor.

Protecting the Environment

During the third quarter of 2010, Darlington Nuclear did not record any major or moderate spills to the environment.

Milestones & Items of Interest

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

- OPG's Darlington Refurbishment organization moved to the GM Building in Oshawa. The temporary office brings staff who are working on the planning phase to one location and close to Darlington Nuclear.
- OPG has leased two floors in the new office tower being constructed on Pickering Parkway (near Liverpool and Highway 401). This agreement will accommodate about 170 staff currently working at other OPG locations.
- On September 15, OPG successfully completed the Pickering Units 2 and 3 Safe Storage Project safely, ahead of schedule and under budget. This challenging and complex project was the first to permanently remove two commercial CANDU reactors from service while a multi-unit station continued to produce electricity.



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