

Performance Report for Darlington Nuclear

FIRST QUARTER OF 2008

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 2008.



OPG continues to maintain high standard of Public Safety

OPG's ongoing goal is to maintain and continue building 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 example, the food and water we ingest each year accounts for approximately 300 of those microsieverts.

For Darlington Nuclear, the estimated additional exposure during 2007 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 1.1 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.



Keeping Our Employees Safe

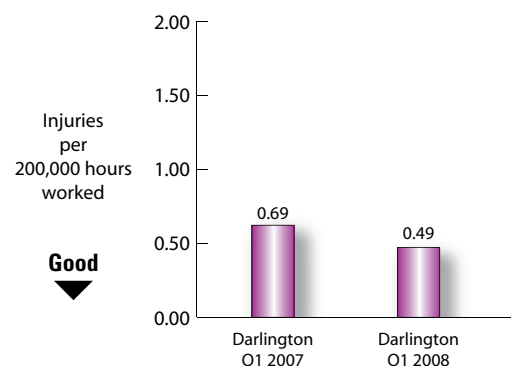
Darlington's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. Darlington continues to record excellent performance with no days lost due to injuries.

Employee Accident Severity Rate



Darlington did well in another key safety measure – the employee All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the first quarter, Darlington recorded 0.49 injuries per 200,000 hours which is favourable compared to Canadian Electricity Association top quartile performance.

Employee All Injury Rate



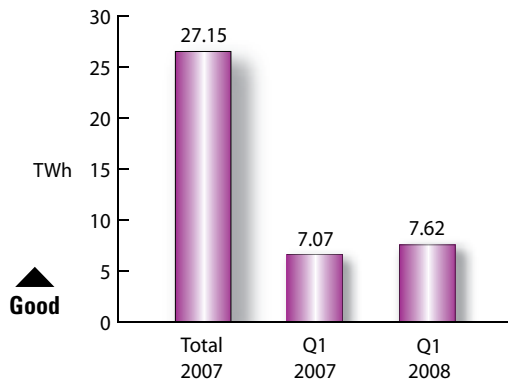
Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation.

During the first quarter of 2008, Darlington employees achieved over 4.7 million hours without a lost-time injury.

Electricity Production

Darlington Electricity Production (TWh)



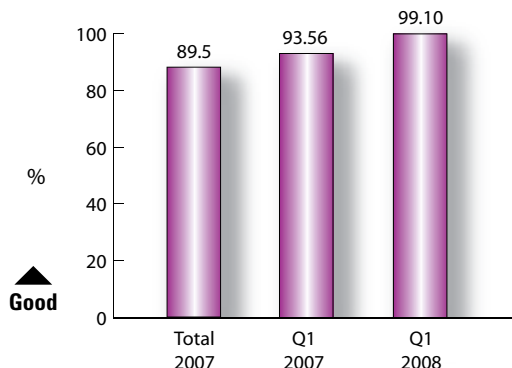
Darlington Nuclear achieved strong levels of performance due to the operational focus of station employees.

Darlington's units performed very well during the first quarter of 2008 producing 7.62 TWh, compared to 7.07 TWh for the same period last year.

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 a superb record during the first quarter achieving nearly 100 per cent unit capability factor. In addition, three of Darlington's four units achieved top quartile performance compared to other CANDU units worldwide.

Unit Capability Factor (%)



Protecting the Environment

During the first quarter of 2008, the Darlington station did not record any major or moderate spills to the environment.

Milestones & Items of Interest

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

- In February, Darlington was granted a new, five-year operating licence by the Canadian Nuclear Safety Commission. The licence runs from March 1, 2008 to February 28, 2013.
- Darlington Nuclear and Pickering Nuclear received an environmental award from the international Wildlife Habitat Council. The "Signatures of Sustainability Award" is awarded for exemplary involvement in biodiversity conservation and credits recipients for going above and beyond the certification standards.



OPG Chief Nuclear Officer Tom Mitchell, VP Sustainable Development Cara Clairman, Darlington Senior Vice President, Wayne Robbins and Wildlife Habitat Council President Bob Johnson. The award ceremony took place in Darlington's newly renovated Information Centre in February.

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