

Performance Report for Darlington Nuclear

SECOND QUARTER 2007

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 2007.



OPG continues to follow high standards 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.

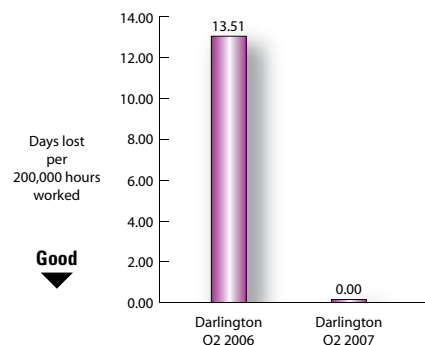
For Darlington Nuclear, the estimated additional exposure during the first quarter of 2007 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.2 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.



Keeping Our Employees Safe

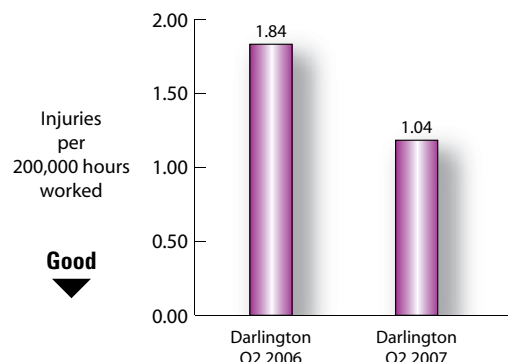
Darlington's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. Darlington recorded excellent performance with no days lost due to injuries in the second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

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. Darlington recorded 1.04 injuries per 200,000 hours worked during the second quarter which is favourable compared to Canadian Electricity Association top quartile performance.

Employee All Injury Rate

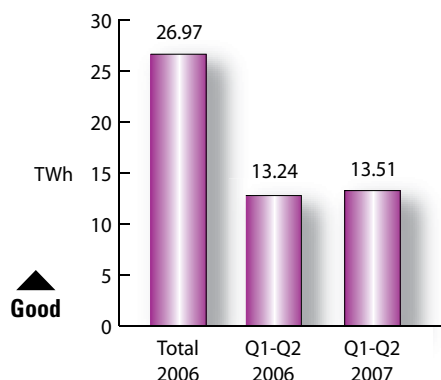


Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. During the second quarter of 2007, Darlington employees achieved over 2.4 million hours without a lost-time injury.

Electricity Production

Darlington Electricity Production (TWh)



Darlington Nuclear reported excellent generating performance in the first half of 2007. Darlington increased its electrical output in the first half of 2007 compared to the same period in 2006. From January to June, Darlington's four units produced 13.51 TWh of electricity, compared to 13.24 TWh for the same period in 2006. A terawatt hour is the equivalent of one billion kilowatt hours. The average home uses 1,000 kilowatt hours per month.

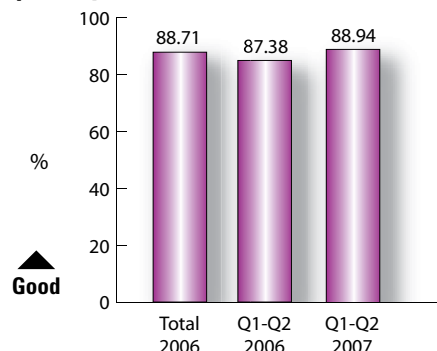
During the second quarter, Darlington achieved excellent performance in reliability with a Forced Loss Rate (the amount of time a reactor is unavailable to produce electricity due to unplanned production losses) of less than one per cent. The best reactors in the world operate with a Forced Loss Rate from one to two per cent.

In May, Darlington Unit 4 returned to service after a planned maintenance outage. Darlington employees successfully completed the major maintenance program on Unit 4 – safely, on schedule and on budget.

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. During the first six months, Darlington's unit capability factor was 88.94 per cent, which represents improved performance for the same period last year. 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 second quarter of 2007, 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 May, Darlington Unit 4 returned to service after a planned maintenance outage. Darlington employees successfully completed the major maintenance program on Unit 4 – safely, on schedule and on budget.
- Darlington Nuclear recognized their long-standing partnership with Scouts Canada's Lakeshore Ridge Area of White Pine Council. Over the 12-year partnership, scouts, cubs, and beavers have planted 24,000 seedlings on the Darlington site.
- The Durham Region Health Department recently issued an update to their 1996 report on radiation and health in Durham Region. Radiation and Health in Durham Region 2007 is a descriptive study that examined rates of various cancers and congenital anomalies and stillbirths in areas surrounding the Pickering and Darlington Nuclear stations. The study concluded that "disease rates in Ajax-Pickering and Clarington did not indicate a pattern to suggest that the Pickering NGS and the Darlington NGS were causing health effects in the population." To view the report, go to the Region of Durham website at www.region.durham.on.ca
- With construction of the Darlington Waste Management Facility nearing completion and commissioning of the new facility ongoing, OPG has applied to the Canadian Nuclear Safety Commission for an operating licence. The operating licence will allow OPG to bring the facility into service.

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