

2006 Performance Report

DARLINGTON NUCLEAR

This report discusses performance statistics for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during 2006.



OPG continues to follow high standards of Public Safety

OPG's ongoing goal is to build a strong safety culture at each of our nuclear stations to ensure that there are no public 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.

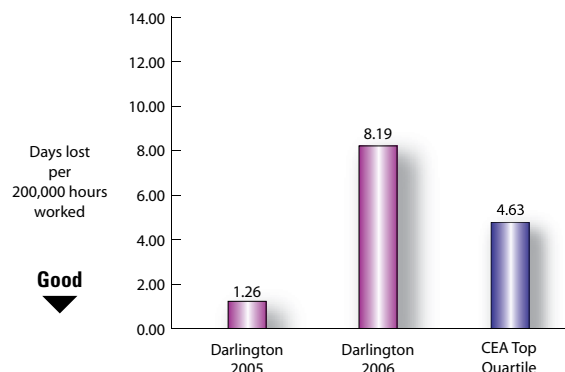
For Darlington Nuclear, the estimated additional exposure in the first nine months of 2006 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.9 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

Keeping Our Employees Safe

Darlington's employee safety performance is measured against other electricity companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost

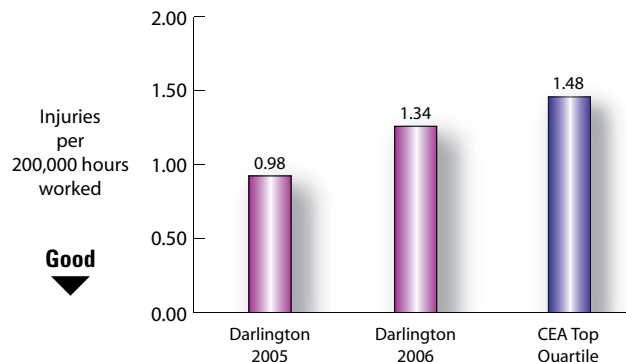
due to injuries per 200,000 hours worked. In 2006, Darlington recorded 8.19 days lost per 200,000 hours worked. Darlington's ASR was higher than top quartile Canadian Electricity Association (CEA) performance due to lost time accidents involving hand injuries and slip and fall injuries. Two safety awareness campaigns were launched in 2006 focusing on hand safety/proper glove use and slips, trips and falls.

Employee Accident Severity Rate



The employee All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. The station recorded 1.34 injuries per 200,000 hours worked in 2006. As a result, Darlington stayed well within the top quartile industry performance category, set by the CEA at 1.48 or lower.

Employee All Injury Rate



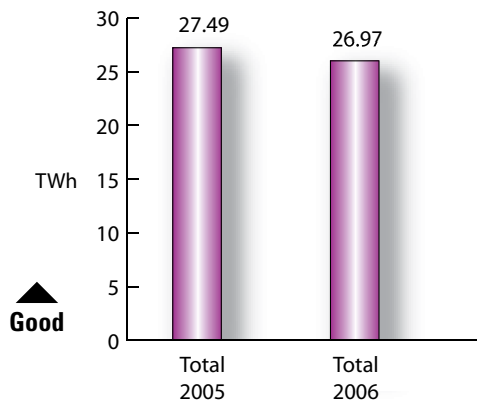
Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. In 2006:

- Darlington achieved over 1 million person-hours without a lost time accident.
- Darlington's Field Engineering staff achieved 10 years without a lost time accident.

Electricity Production

Darlington Electricity Production (TWh)



Company-wide, Nuclear production was higher in 2006 compared to 2005. OPG's nuclear production for the year totaled 46.92 TWh, an increase of 4.76 percent compared to 2005.

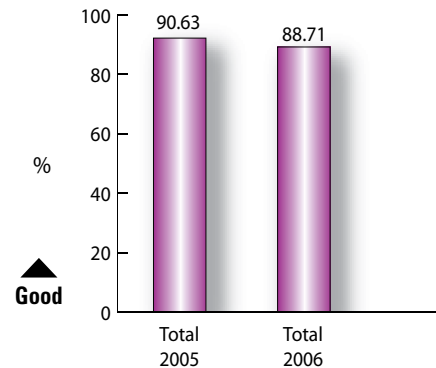
Overall, Darlington's units performed well during 2006 with all four units operational in August when the electricity demand in Ontario reached a record high of 27,005 MW.

In 2006, Darlington's electrical production of 26.97 TWh, registered a decrease of 1.89 per cent compared to 2005. This can be attributed to the extended Unit 3 planned maintenance outage in the Spring. In the Fall, Unit 1's planned maintenance outage was notable in that it was Darlington's first multiple feeder pipe replacement using advanced tooling equipment developed specifically for the task. This is seen as a first step in further enhancing Darlington's reliability, performance and life-span.

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 unit capability factor was 88.71 per cent at the end of 2006, representing a 2.12 per cent decrease from 2005.

Unit Capability Factor (%)



Protecting the Environment

During 2006, Darlington station did not record any major or moderate spills of chemicals or other substances.

Milestones & Items of Interest

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

- OPG was honoured to be named as one of Toronto's Top 50 Employers for 2006. The award recognized OPG's leadership in attracting quality employees and providing them with excellent career opportunities and benefits.
- In 2006, as part of OPG's annual charity campaign and holiday giving campaign, Darlington Nuclear employees donated over \$246,500 to charities and local organizations.
- OPG Darlington Nuclear contributed 100 new titles to the Clarington Public Library system introducing books covering a range of subjects, focusing primarily on environment, stewardship, electricity generation, and conservation.



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