

2007 Performance Report

DARLINGTON NUCLEAR

This report discusses performance for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during 2007.



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.

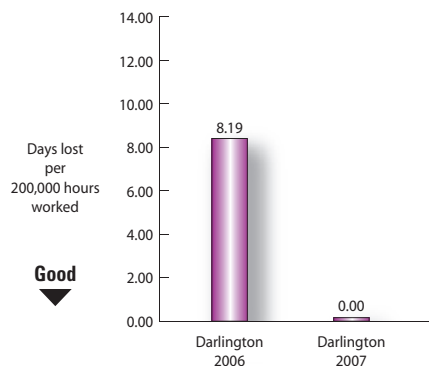
For Darlington Nuclear, the estimated additional exposure during 2007 for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.8 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.



Keeping Our Employees Safe

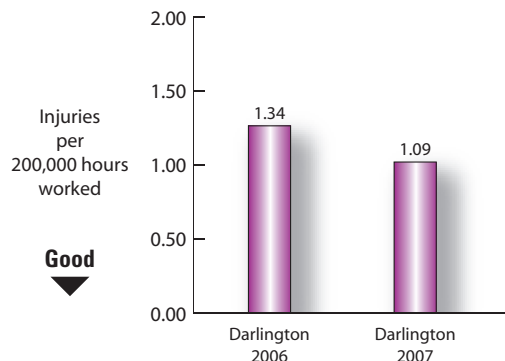
Darlington's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. Darlington recorded excellent performance with no days lost due to injuries.

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 1.09 injuries per 200,000 hours worked in 2007 which is favourable compared to Canadian Electricity Association top quartile performance.

Employee All Injury Rate



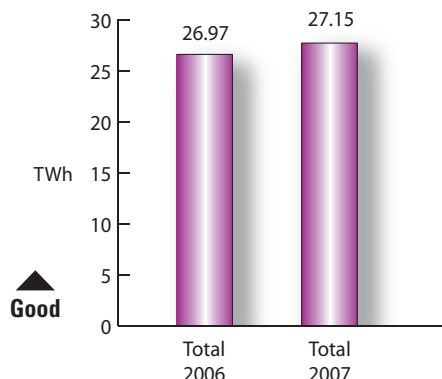
Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. In 2007:

Darlington employees achieved 4 million hours without a lost-time injury.

Electricity Production

Darlington Electricity Production (TWh)



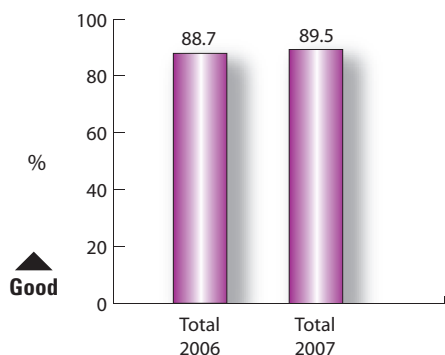
Darlington Nuclear achieved excellent results as demonstrated by its timely maintenance outage completion record, and the operational focus of station employees.

Overall, Darlington's units performed well during 2007 producing 27.15 TWh, compared to 26.97 TWh in 2006.

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 year achieving a nearly 90 per cent unit capability factor, receiving international peer recognition for improved performance, and ending the year with a major safety, environmental and planned outage achievements to its credit.

Unit Capability Factor (%)



Protecting the Environment

During 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:

- During a CEO Conference of the Institute of Nuclear Power Operations, Darlington Nuclear was honoured with a prestigious Performance Improvement Award. The award recognizes Darlington's strong performance among international nuclear plants and continued improvement as the station strives for excellence.
- Darlington Nuclear was awarded the World Class ALARA performance award for exemplary performance in occupational dose reduction. This international recognition demonstrates OPG Nuclear has the expertise, experience and commitment to excellence to play a significant role in Ontario's generation future.
- Pickering Nuclear was recognized as Corporate Habitat of the Year by the international Wildlife Habitat Council. Pickering Nuclear also earned this award in 2001. Darlington Nuclear is also certified by the Habitat Council and was the first nuclear plant in North America to earn this in 1997.



Darlington Senior Vice President Wayne Robbins (centre) accepts the Institute of Nuclear Power Operations Performance Improvement award from industry colleagues in Atlanta.

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