

2004 Performance Report for Darlington Nuclear

This report discusses performance statistics for Darlington Nuclear during 2004 in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the year.



Ensuring Public Safety

The number one priority at each of OPG's nuclear stations is to ensure that there are no public safety concerns as a result of our operations. Our nuclear stations are designed with multiple safety systems and are staffed by station personnel who are extremely well trained.

In the four decades that nuclear energy has served Canada's energy needs, no member of the public has ever been harmed as a result of a radiation leak 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.

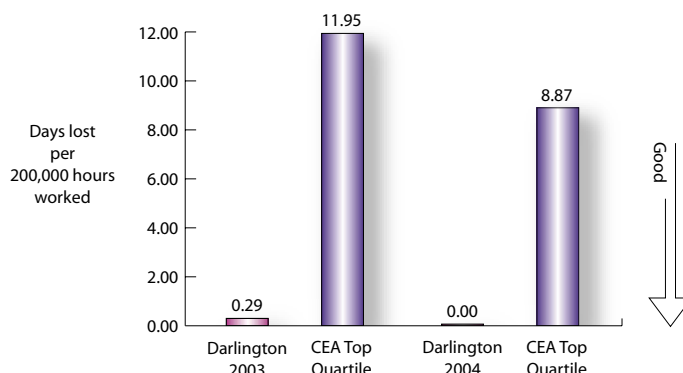
The most recent (January to September 2004) data on radiation exposure at the perimeter of the Darlington station show that a person living beside the station and eating food produced there would have received just over 1 microsievert of radiation from the station. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

Keeping Our Employees Safe



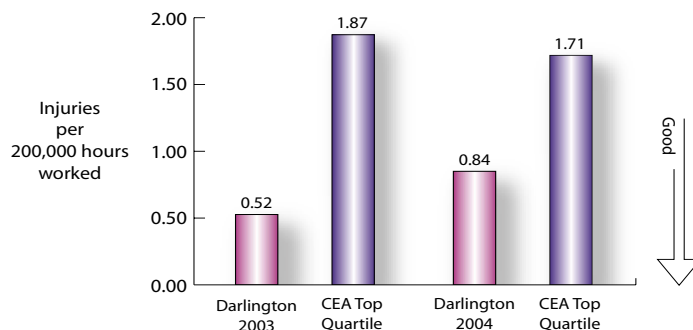
Darlington's employee safety performance is very good as measured against other electricity companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. In 2004, Darlington surpassed its 2003 ASR performance by not losing any days due to workplace injuries. These results are better than the threshold for top quartile safety performance of 8.87 days lost per 200,000 hours (2001-2003 average) established by members of the Canadian Electricity Association (CEA).

Employee Accident Severity Rate



Darlington also performed well in another key safety measure - the employee All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. In 2004, the station had 0.84 injuries per 200,000 hours worked. These results were slightly worse than in 2003, but they bettered the CEA's All Injury Rate top quartile threshold (2001-2003 average) for 2004, which was 1.71.

Employee All Injury Rate



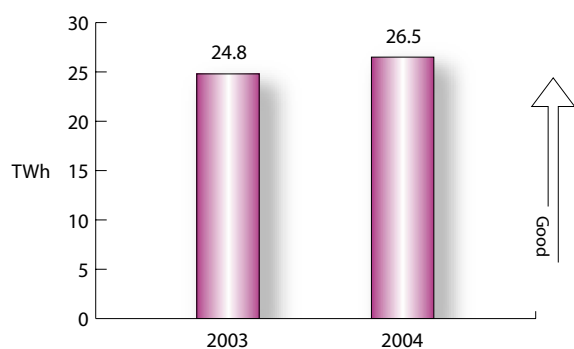
Safety Milestones

In 2004, Darlington achieved several important safety milestones. For example:

- In December 2004, Darlington celebrated a milestone of two million hours without a lost-time accident.
- Unit 1 outage (Spring) was performed with no Lost Time Accidents and no potentially serious (high MRPH) workplace safety events.
- Darlington Fuel Handling went ten years without a lost time accident.

Electricity Production

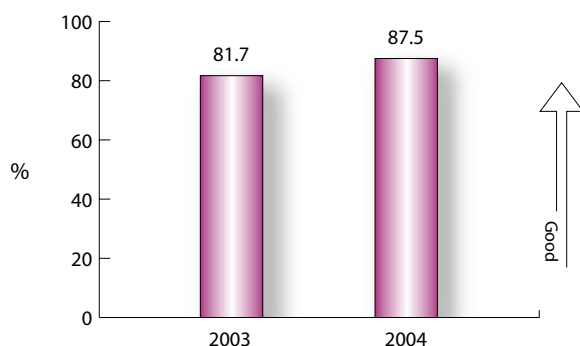
Darlington Electricity Production (TWh)



During 2004, the Darlington nuclear station produced 26.5 terawatt hours (TWh) of electricity, an increase over the 24.8 terawatt hours produced in 2003. The Darlington station produced about 17 per cent of the electricity used by the province in 2004.

The station is dedicated to continuously improving its electricity production. Its gross capability factor - which measures how much electricity the station produced compared to how much it could have supplied if there had been no maintenance outages - increased from 81.7 per cent in 2003 to 87.5 per cent in 2004. In fact, the Darlington station recorded the highest capability factor of any multi-unit nuclear station in Ontario during 2004.

Gross Capability Factor (%)



Protecting the Environment

Darlington Nuclear maintained its ISO 14001 accreditation in 2004, which signifies that the station has an environmental management system in place that meets a high international standard. During the year, the station did not record any major or moderate spills of chemicals or other substances, which are reported to the Ontario Ministry of the Environment. This improves on 2003 performance, in which one spill occurred.



Significant Accomplishments

Some of the other significant accomplishments registered by Darlington Nuclear in 2004 include the following:

- Darlington Nuclear hosted a periodic evaluation by a team of inspectors from the World Association of Nuclear Operators, which delivered a report that showed major improvements in the performance of the station.
- Darlington achieved a Certificate of Authorization from the Technical Standards Safety Authority to allow station staff to modify and repair the station's pressure boundary systems. OPG's nuclear stations are the first in Canada to receive such an authorization, which will save the company about \$2.5 million per year in contracting expenditures.
- The Canadian Nuclear Safety Commission issued a license to OPG for the construction of a used fuel dry storage facility at Darlington.
- The Canadian Electricity Association presented OPG with a Bronze Award for its employee safety performance.
- Research involving 22 community (government, business and media) leaders in the Darlington area showed that the station receives high marks for its community citizenship. The rating of the station by the community leaders improved from 8.1 out of 10 in 2003 to 8.3 out of 10 in 2004.



Do you have any questions about our 2004 performance results? If so, please give us a call at 905-623-7122