

2005 Performance Report

DARLINGTON NUCLEAR

This report discusses performance statistics for Darlington Nuclear during 2005 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 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 2005 (most recent data) 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.

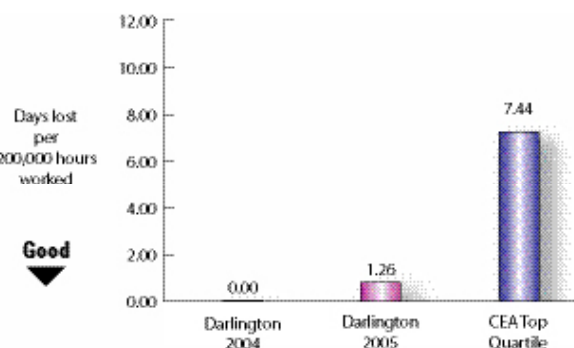


Keeping Our Employees Safe

Darlington's employee safety performance continues to measure up well against other electricity companies. One measure is the employee Accident Severity Rate (ASR)

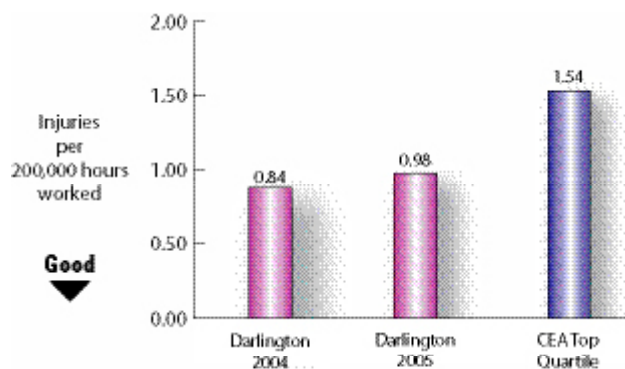
which measures the number of days lost due to injuries per 200,000 hours worked. In 2005, Darlington recorded 1.26 days lost per 200,000 hours worked. This was up from the perfect record posted in 2004, when no days were lost. The 2005 results are still significantly better than the threshold for top quartile safety performance of 7.44 days lost per 200,000 hours (2002-2004 average) established by members of the Canadian Electricity Association (CEA).

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. The station recorded 0.98 injuries per 200,000 hours worked in 2005. This was a slight increase from the 0.84 injuries per 200,000 hours worked in 2004. As a result Darlington stayed well within the top quartile industry performance category, set by the CEA at 1.54 or lower (2002-2004 average).

Employee All Injury Rate



Both safety indicators reflect the priority OPG places on a safe workplace. Extensive ongoing training, constant refreshers and key messaging all play a role in putting employee safety first and foremost into our work plans.

Please note that the results for both ASR and AIR may differ from the 2004 Performance Report due to a change in method of calculation.

Safety Milestones

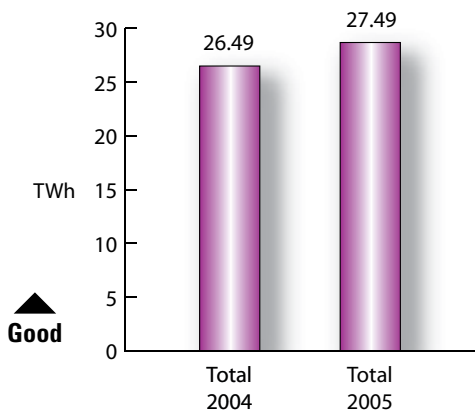
The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. In 2005:

- Darlington's Fuel Handling employees achieved 10 years without a lost time accident.
- OPG was honoured for its outstanding employee safety record when it received the first-ever Gold Award for excellence from the Electrical and Utilities Safety Association. Darlington was one of the sites visited during the evaluation process.



Electricity Production

Darlington Electricity Production (TWh)



OPG's nuclear units performed well during 2005 when we experienced one of the hottest and driest summers ever recorded in Ontario. OPG's nuclear production for the year totalled 45 TWh, an increase of 6.4 percent over 2004. This represented 41.5 percent of OPG's total 2005 generation. Production from Darlington Nuclear's four units in 2005 was 27.49 TWh, up 3.77 percent over 2004's 26.49 TWh. Darlington accounted for 61 per cent of OPG's nuclear production in 2005.

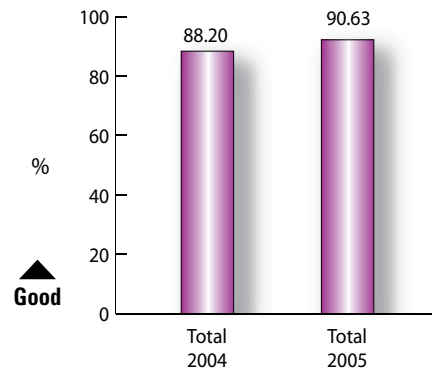
A terawatt hour is the equivalent of one billion kilowatt hours. The average home uses between 800 and 1,000 kilowatt hours a month.

Unit Capability Factor

Another measure of a 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 continues to rise, reaching 90.63 per cent at the end of 2005. This was an increase of almost 3 per cent over a similarly good performance in 2004 when the unit capability factor was 88.20. Over the past three years, Darlington Nuclear has had the best average unit capability factor of any nuclear station in Ontario.

Unit Capability Factor (%)



Protecting the Environment

During 2005, the Darlington station did not record any major or moderate spills of chemicals or other substances, which are reported to the Ontario Ministry of the Environment.

Significant Accomplishments

Some significant accomplishments registered by Darlington Nuclear in 2005 include the following:

- OPG announced a major investment of \$10 million in the University of Ontario Institute of Technology to ensure the best-prepared candidates are available to OPG and the energy industry in the future.
- Clarington Council recognized the Darlington Nuclear Public Affairs group for its support and involvement in the Clarington Family Safety Day which promotes safety awareness in the community.
- Darlington employees collected more than \$5,000 in cash in just a few hours in December in support of the annual Durham Regional Police Services' holiday food and toy drive. It took six loaded vans to transport all the collected items.



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