

Performance Report for Darlington Nuclear

SECOND QUARTER OF 2008

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 2008.



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.

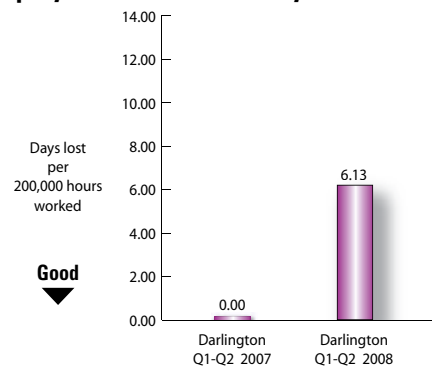
For Darlington Nuclear, the estimated additional exposure during 2007 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 1.4 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.



Keeping Our Employees Safe

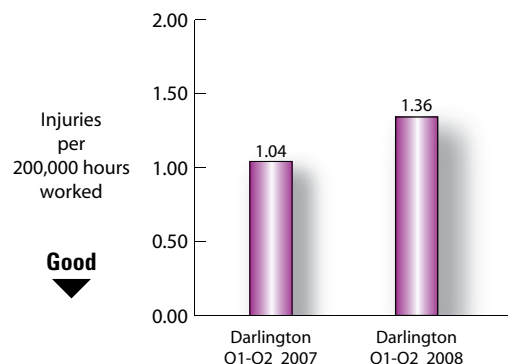
Darlington's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. Darlington's ASR was significantly higher than top quartile Canadian Electricity Association (CEA) performance due to a leg injury resulting in a lost time accident.

Employee Accident Severity Rate



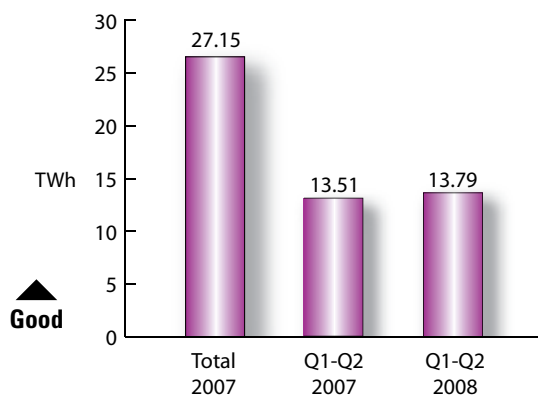
The employee All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. The station recorded 1.36 injuries per 200,000 hours worked in the second quarter. This result is slightly above the top quartile industry performance set by the CEA.

Employee All Injury Rate



Electricity Production

Darlington Electricity Production (TWh)

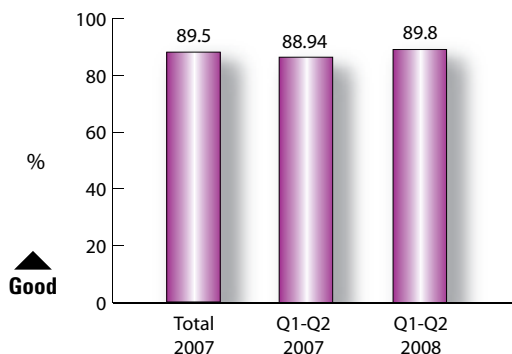


Darlington's units continued to perform well during the second quarter of 2008 producing 13.79 TWh, compared to 13.51 TWh for the same period last year.

In June, Darlington Unit 1 returned to service after a planned maintenance outage. Darlington employees successfully completed the major maintenance outage program on Unit 1 – safely, on schedule and on budget.

Unit Capability Factor

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 second quarter, Darlington achieved 89.8 per cent unit capability factor.

In addition, three of Darlington's four units achieved top quartile performance compared to other CANDU units worldwide.

Protecting the Environment

During the second quarter of 2008, 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 June, the Province announced the Darlington site as its choice for Ontario's next nuclear plant and OPG as the operator of the two new nuclear units.
- Darlington Nuclear Unit 1 planned maintenance outage was completed on June 5 two days ahead of schedule. This is the fourth consecutive Darlington outage completed on time.
- In April, Darlington's Waste Management Facility received the first Dry Storage Container from the station's fuel bay, carrying the first delivery of used fuel. The shipment was supervised by the International Atomic Energy Agency (IAEA), who have oversight of all nuclear materials around the world.
- OPG's Pickering and Darlington stations were the proud co-recipients of an environmental award from the Durham Environmental Advisory Committee (DEAC). The "Jessica Markland Partnership Award" recognizes the co-operative efforts of those who enhance Durham Region's environment by building partnerships with public, community and private organizations.
- In April, Darlington Fire Protection staff and OPG volunteer fire fighters helped to fight a fire in Bowmanville. The fire destroyed a heritage building and neighbouring stores, including the Second Chance clothing store. Second Chance is operated by Bethesda House women's and children's shelter to raise funds for their operations. Darlington employees generously donated dishes, purses, sweaters, jackets, pants, and children's toys to Bethesda House in the weeks following the fire.

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