

Performance Report for Darlington Nuclear

THIRD QUARTER OF 2009

This report discusses performance for Darlington Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the third quarter of 2009.



OPG continues to maintain a 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 Darlington Nuclear, the estimated additional exposure during the first quarter of 2009 for people living nearest the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.3 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than the 1,000 microsieverts permitted by the Canadian Nuclear Safety Commission regulation.

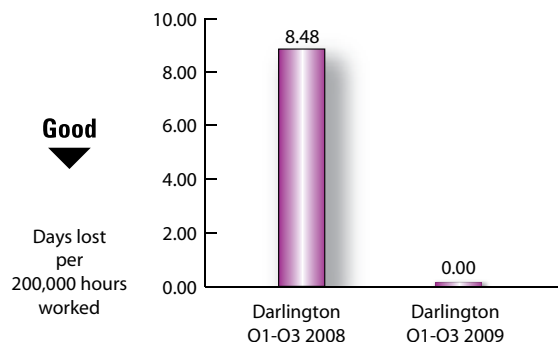
Keeping Our Employees Safe

OPG's first priority is the health and safety of employees and the public. In 2009, OPG received a ZeroQuest Gold Award from the Electrical and Utility Safety Association. The award recognizes OPG's effort to continuously improve our safety performance, health and safety management systems and safety culture. OPG was first recognized with the Gold Award in 2005, this latest award recognizes OPG's maintenance of this high level of performance for four consecutive years.

At OPG's nuclear operations, we are on a continuous journey toward excellence in our safety performance. Its defining features include striving for zero injuries and creating a work environment where more than 1,800 employees at Darlington Nuclear take personal responsibility to consistently build safety into every task they perform.

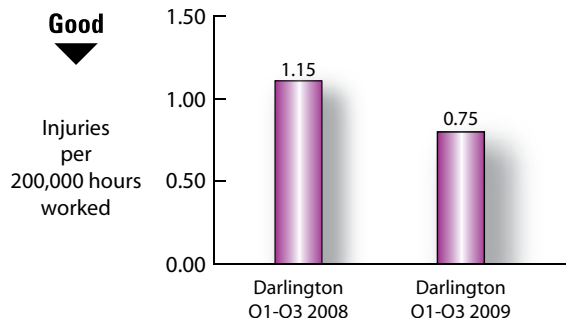
Employee Accident Severity Rate

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. During the first nine months of 2009, Darlington recorded 0.00 days lost per 200,000 hours. This is excellent performance and better than Canadian Electricity Association top quartile performance.



Employee All Injury Rate

Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. During the first nine months of 2009, Darlington recorded 0.75 injuries per 200,000 hours. This is very good performance and better than Canadian Electricity Association top quartile performance.



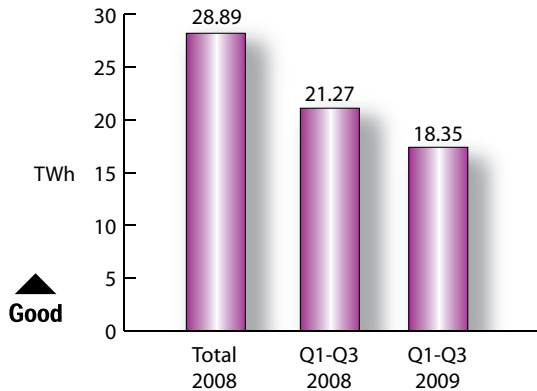
Safety Milestones

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

During the third quarter of 2009, Darlington employees achieved four million hours without a lost-time injury.

Electricity Production

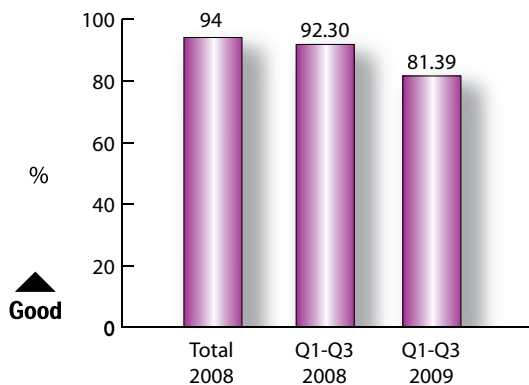
Darlington Electricity Production (TWh)



During the first nine months of 2009, total production for Darlington was 18.35 TWh which is a decrease compared to the same period last year. During the third quarter, Darlington safely and successfully completed a major planned outage on Unit 3. Overall generation was affected due to maintenance required on the Primary Heat Transport System on Units 2, 3 and 4.

Unit Capability Factor

Unit Capability Factor (%)



Following the planned spring Vacuum Building Outage, Darlington Unit 3 remained offline for a planned outage that lasted until July 12. The planned outage resulted in a lower unit capability factor of 81.39 compared to the same period last year.

Protecting the Environment

During the third quarter of 2009, Darlington Nuclear did not record any major or moderate spills to the environment.

Milestones & Items of Interest

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

- Chief Nuclear Officer Wayne Robbins has been named 2009 “Leader of the Year” by the Ontario Energy Association (OEA). The award was presented September 16 at the OEA’s annual conference in Niagara Falls. In announcing the award, Paul McMillan, OEA Interim President and CEO, praised Robbins as “a true leader whose integrity is renowned among his peers and staff, and whose dedication to his work and employees is exemplary.”
- OPG was recognized in 2009 with the Zero Quest Gold Award from the Electrical and Utilities Safety Association. The award recognizes a company’s ability to maintain a high level of safety management and safety performance for four consecutive years. OPG is the only company in the Zero Quest Program to reach this milestone.
- OPG submitted the Pickering B Integrated Safety Review Study to the CNSC. The report concludes the existing Pickering B station demonstrates a high level of compliance with modern codes and standards and can be operated safely today and in the future should the decision be made to refurbish the plant.
- The Darlington New Nuclear Project achieved a significant milestone in OPG’s efforts to bring new nuclear to the Darlington site. OPG submitted the “Environmental Impact Statement” and the application for a “Licence to Prepare Site” to the federal authorities. The EIS and technical support documents are available at www.opg.com/newbuild.



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