

Performance Report for Pickering Nuclear

SECOND QUARTER OF 2011

This report discusses performance for Pickering Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the second quarter of 2011.



OPG continues to maintain a high standard of public safety

Ontario Power Generation (OPG) maintains and builds upon a strong safety culture at each of our nuclear stations to ensure that there are no public safety 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. Continuous monitoring of radiation exposure at the perimeter of our stations consistently demonstrates the public is protected at all times from radiation emissions. Most people are not aware that 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 people living near Pickering Nuclear, based on their actual lifestyle characteristics and food consumption patterns, the estimated additional exposure for all of 2010 was 1.0 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 primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in the ZeroQuest program and recognizes OPG's efforts to sustain and continuously improve our safety performance, health and safety management systems, and safety culture.

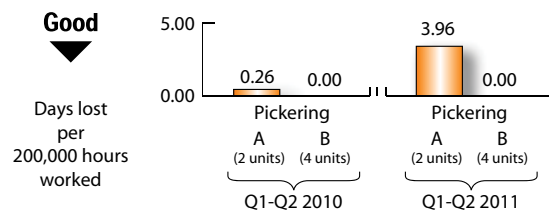
OPG's pursuit of Platinum began in 2005, when OPG was first recognized with the Gold Award, following detailed document reviews and employee interviews at Corporate, Nuclear, Thermal and Hydro sites. OPG succeeded in achieving Platinum by sustaining this Gold level over the next four years based on annual assessments at OPG sites.

At OPG's nuclear operations, we are on a continuous journey toward excellence in our safety performance. We strive for zero injuries and to create a work environment where employees at

Pickering Nuclear take personal responsibility to consistently build safety into every task they perform.

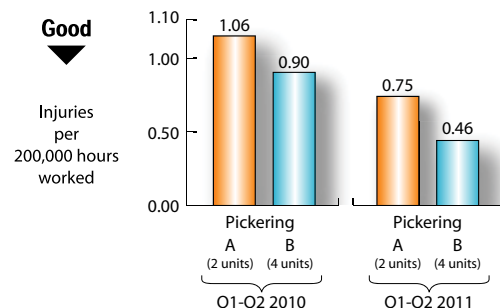
Employee Accident Severity Rate

Pickering'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. Overall safety performance is strong at OPG's nuclear sites where most of the safety metrics are considered industry top quartile, including the All Injury Rate (AIR) and the ASR. Pickering A reported a 3.96 ASR which is slightly above the Canadian Electricity Association (CEA) top quartile performance due to an employee who sustained a back strain. Pickering B reported excellent performance achieving zero days lost per 200,000 hours worked achieving better than CEA 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 second quarter, Pickering A and Pickering B reported an AIR of 0.75 and 0.46 per 200,000 hours worked, achieving excellent performance and better than CEA top quartile industry performance.



Safety Milestones

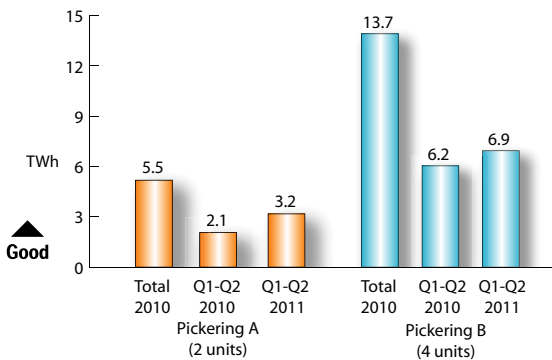
The safety of our employees, like the safe operation of our nuclear reactors is a top priority. During the second quarter of 2011:

Pickering A employees achieved over three million hours without a lost-time injury.

Pickering B employees achieved over five million hours without a lost-time injury.

Electricity Production

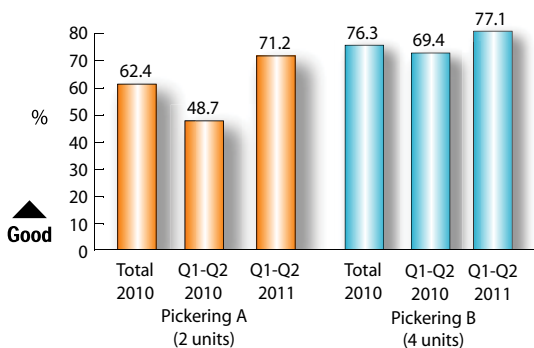
Pickering A and B Electricity Production (TWh)



During the first six months of 2011, Pickering A and Pickering B recorded improved generation compared to the same period in 2010. Overall generation was affected by unplanned outages at Pickering A and an extended Pickering Unit 5 planned maintenance outage. While the bulk of the maintenance work on Unit 5 was completed as planned, the moderator system required extensive cleanup activities.

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.

Pickering A and Pickering B achieved improved performance compared to the same period last year recording unit capability factors of 71.2 and 77.1 per cent respectively.

Protecting the Environment

During the second quarter of 2011, Pickering Nuclear did not record any major or moderate spills to the environment.

Milestones and Items of Interest

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

- In June, the Canadian Nuclear Safety Commission released its annual report assessing the safety performance of Canadian nuclear stations in 2010. Darlington Nuclear received a fully satisfactory rating and all other Canadian stations received a satisfactory rating.
- OPG successfully completed three intensive weeks of public hearings on the Darlington New Nuclear Project Environmental Assessment and Licence to Prepare Site application, held March 21 to April 8 in the Municipality of Clarington. The hearings marked the final public phase of the environmental review. Following the 'official closure of record' announced on June 3, the Joint Review Panel delivered their report to the Federal Minister of Environment on August 25.
- In support of biodiversity in the community, OPG employee volunteers participated in a tree planting in Alex Robertson Park to mark City of Pickering's bicentennial year. OPG and community partners have planted more than 11,000 native trees and shrubs in Alex Robertson Park since 2000.
- In May, there was a historic event in the largest and most economical clean energy project in Ontario as Big Becky broke through to daylight. Completion of the tunnel's boring machine's 10.2 km journey beneath the City of Niagara Falls is a major milestone in the project. When completed in 2013, OPG's Niagara Tunnel will provide enough additional water to the Sir Adam Beck stations to generate clean energy for about 160,000 homes.



Do you want to discuss any of our performance results with us? If so, please call us at 905-837-7272.