

Performance Report for Pickering Nuclear

SECOND QUARTER OF 2010

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 2010.



OPG continues to maintain a high standard of Public Safety

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. An excellent measure demonstrating that the public is protected at all times from radiation emissions, is provided by the continuous monitoring of radiation exposure at the perimeter of our stations. 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 Pickering Nuclear, the estimated additional exposure during the first quarter in 2010 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.4 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

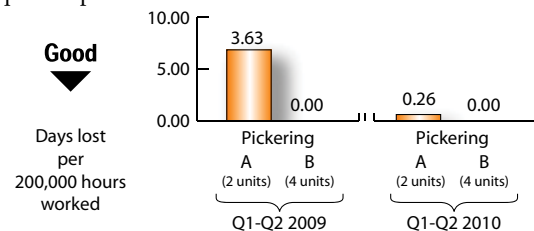
OPG's primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in 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 to 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 more than 3,000 employees at Pickering Nuclear take personal responsibility to consistently build safety into every task they perform.

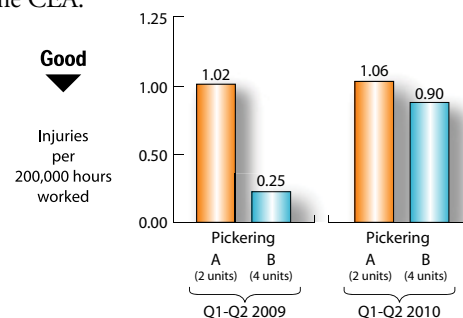
Employee Accident Severity Rate

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. During the second quarter, Pickering A achieved good performance and better than Canadian Electricity Association (CEA) top quartile performance. Pickering B recorded zero days lost per 200,000 hours worked in the second quarter of 2010. This continuous excellent performance is 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 recorded 1.06 per 200,000 hours worked achieving good performance and within the top quartile industry performance category set by the CEA. Pickering B registered 0.90 AIR achieving good performance and better than the top quartile industry performance category set by the CEA.



Safety Milestones

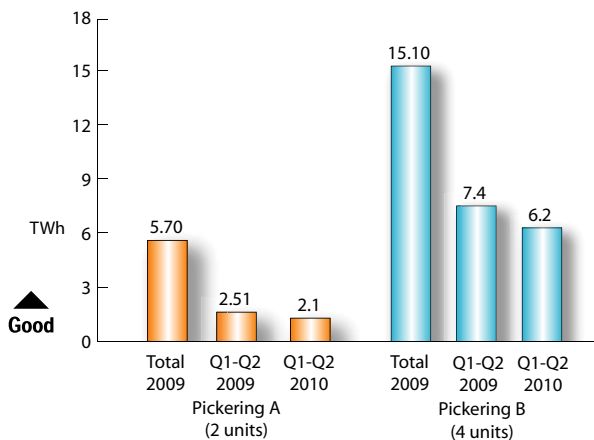
The safety of our employees, like the safe operation of our nuclear reactors is a top priority. During the second quarter of 2010:

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

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

Electricity Production

Pickering A and B Electricity Production (TWh)

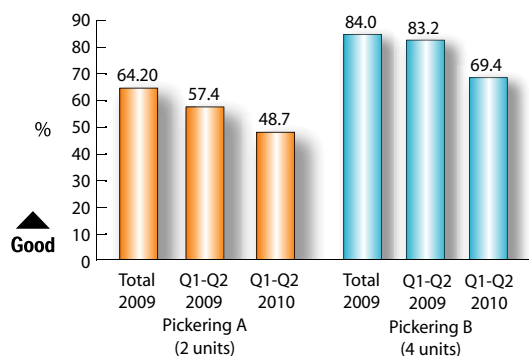


During the first six months of 2010, Pickering A produced 2.1 TWh generation, a slight decrease for the same period in 2009. The overall decrease in electricity production for Pickering Nuclear can be largely attributed to the planned Vacuum Building Outage (VBO). The inspection and maintenance of this important safety system occurs every ten years.

Pickering Nuclear employees, with the assistance of 2,200 temporary employees, safely completed a VBO (the largest and most complex project planned across OPG this year). The Pickering VBO was launched in April following more than two years of preparation. The outage lasted 39 days and about 30,000 tasks were completed in a 6-week window.

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 registered a decrease in its unit capability factor to 48.7 per cent compared to 57.4 per cent for the same period in 2009. Pickering B registered a decrease in its unit capability factor to 69.4 per cent for the same period in 2009. This performance can be largely attributed to the Vacuum Building Outage.

Protecting the Environment

During the second quarter of 2010, Pickering 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 Pickering and across OPG include the following:

- On June 29, the Canadian Nuclear Safety Commission announced its decision to grant Pickering A nuclear station a three-year operating licence. The CNSC commissioners' decision for a three-year rather than the previous five-year licence reflects a desire to harmonize licensing dates for Pickering A and Pickering B during the next decade of operation.
- The Canadian Nuclear Safety Commission (CNSC) released its annual assessment in which "CNSC staff concluded that nuclear power plants in Canada operated safely during 2009."
- Pickering Nuclear employees, with the assistance of 2,200 temporary employees, safely completed a VBO (the largest and most complex project planned across OPG this year). The Pickering VBO was launched in April following more than two years of preparation. About 30,000 tasks were completed in a 6-week window.



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