

Performance Report for Pickering Nuclear

THIRD 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 third 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 second quarter in 2010 (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 the 1,000 microsieverts permitted by the Canadian Nuclear Safety Commission regulation.

Keeping Our Employees Safe

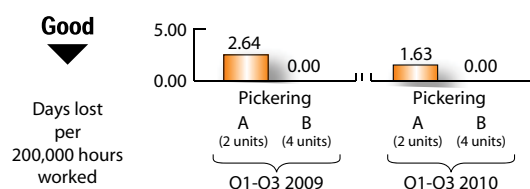
OPG's primary focus is the health and safety of employees and the public. In 2010, OPG became the first employer in Ontario to be awarded the ZeroQuest Platinum Award from the Infrastructure Health and Safety Association (IHSA). This award is the highest level of recognition a company can achieve in 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.

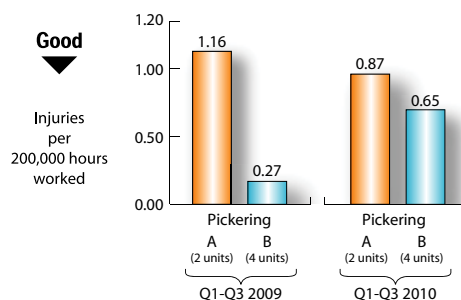
Employee Accident Severity Rate

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 third 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 third 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 third quarter, Pickering A recorded 0.87 AIR per 200,000 hours worked achieving good performance and better than the top quartile industry performance category set by the CEA. Pickering B registered 0.65 AIR achieving good performance and better than top quartile industry performance category set by the CEA.

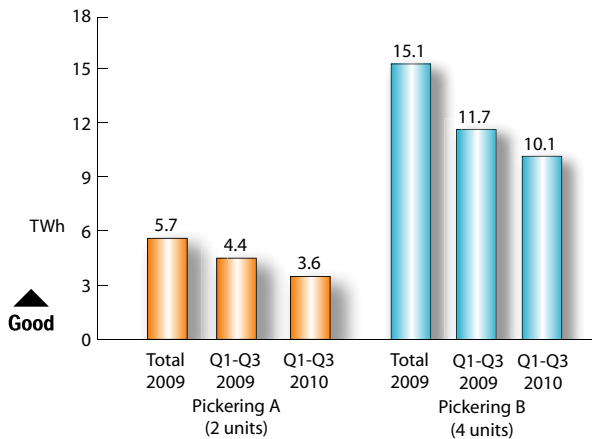


Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors is a top priority. During the third quarter of 2010, Pickering Waste Management employees achieved 16 years without a lost-time injury.

Electricity Production

Pickering A and B Electricity Production (TWh)



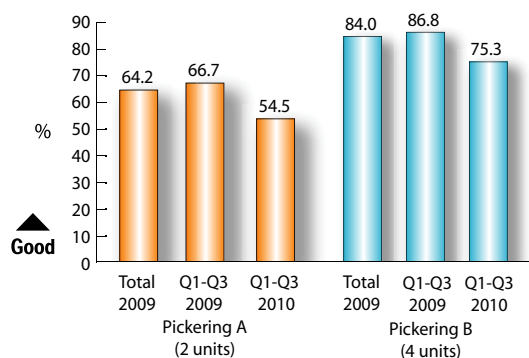
During the first nine months of 2010, Pickering A produced 3.6 TWh generation, a slight decrease for the same period in 2009. The slight decrease in generation was largely due to the successful planned outage for inspection and maintenance of the station's vacuum building. There were also brief unplanned maintenance outages for repairs on shutdown cooling pump seals.

During the first nine months of 2010, Pickering B produced 10.1 TWh generation, a decrease from the same period in 2009. The decrease in generation was again largely due to the completion of the successful planned outage for inspection and maintenance of the station's vacuum building.

Year-to-date, Pickering Nuclear produced 13.7 terawatt hours of electricity, meeting 12.5 per cent of Ontario's electricity needs.

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 registered a decrease in unit capability factor of 54.5 percent and 75.3 per cent respectively compared to the same period last year. This performance was largely due to the 39-day Vacuum Building planned outage.

Protecting the Environment

During the third 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:

- OPG has leased two floors in the new office tower being constructed on Pickering Parkway (near Liverpool and Highway 401). This agreement will accommodate about 170 staff currently working at other OPG locations.
- On September 15, OPG successfully completed the Pickering Units 2 and 3 Safe Storage Project safely, ahead of schedule and under budget. This challenging and complex project was the first to permanently remove two commercial CANDU reactors from service while a multi-unit station continued to produce electricity.
- OPG's Darlington Refurbishment organization moved to the GM Building in Oshawa. The temporary office brings staff who are working on the planning phase to one location and close to Darlington Nuclear.



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