

Performance Report for Pickering Nuclear

FIRST QUARTER OF 2009

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



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 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 2008 (most recent data) for people living nearest the station, based on their actual lifestyle characteristics and food consumption patterns, was 4.1 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

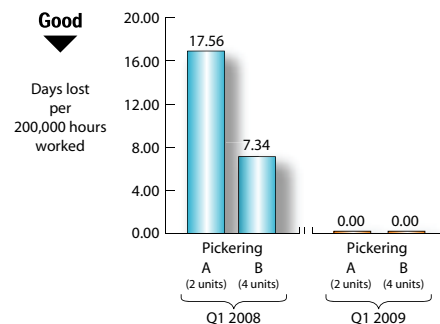
OPG's first priority is the health and safety of employees and the public. In 2008, OPG received two major safety awards from the



Canadian Electricity Association and the Electrical and Utilities Safety Association in recognition of OPG's safety management system and safety culture.

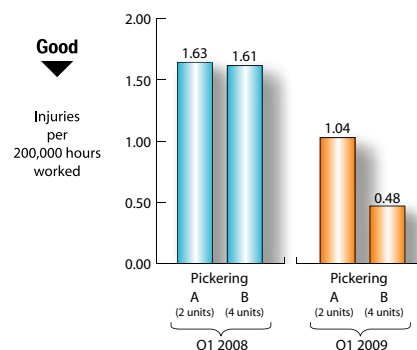
Employee Accident Severity Rate

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. Pickering A and Pickering B recorded 0.00 days lost per 200,000 hours worked in the first quarter of 2009. 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 quarter, Pickering A recorded 1.04 injuries while Pickering B recorded 0.48 injuries per 200,000 hours. This is excellent performance and better than the top quartile industry performance category set by the Canadian Electrical Association.



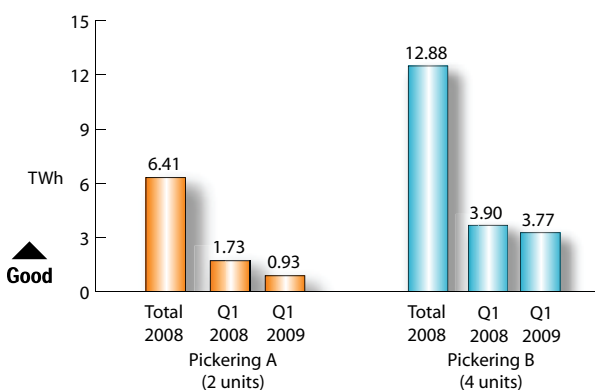
Safety Milestones

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

During the first quarter of 2009, Pickering B employees achieved over 3 million hours without a lost-time injury.

Electricity Production

Pickering A and B Electricity Production (TWh)

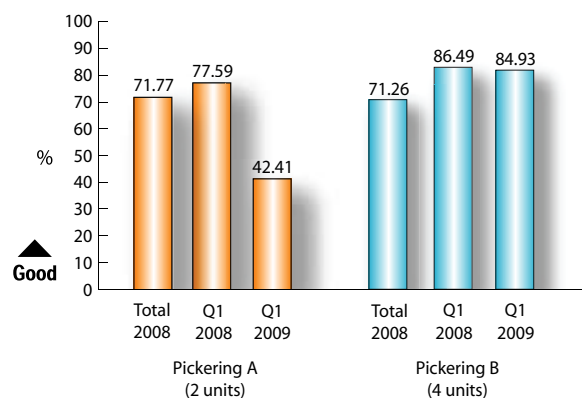


Pickering A produced 0.93 TWh generation in the first quarter of 2009 which is a decrease compared to the same period last year. Overall generation was affected by an unplanned maintenance outage on Unit 1 required to repair a shutdown cooling pump. The lower production can also be attributed to a planned maintenance outage on Unit 4.

Pickering B produced 3.77 TWh of electricity meeting 9 per cent of Ontario's electricity needs during the first quarter of 2009. Overall generation production was impacted by a planned maintenance outage and grid derates requested by the Independent Electricity System Operator.

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 42.41 per cent during the first quarter of 2009 compared to 77.59 per cent for the same period in 2008. This decrease was due to an unplanned maintenance outage on Unit 1 and an extended planned maintenance outage on Unit 4.

During the first quarter, Pickering B, Unit 6 recorded a capability factor of 99.90 which is excellent performance. In 2008, Pickering B Unit 6 achieved top quartile performance compared to other CANDU units worldwide.

Protecting the Environment

During the first quarter of 2009, 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 Nuclear and across OPG include the following:

- The Canadian Nuclear Safety Commission announced its decision on the environmental assessment for the refurbishment of the Pickering B station. The CNSC concluded the refurbishment and continued operation of Pickering B is not likely to cause significant adverse environmental effects, taking into account the identified mitigation measures.
- Pickering Nuclear and Darlington Nuclear hosted thousands of local residents at our March Break activities with a focus on environmental, science and recreational activities.
- In February, OPG was the recipient of the Corporate citizenship Award from United Way of Ajax-Pickering-Uxbridge.



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