

Performance Report for Pickering Nuclear

SECOND QUARTER 2007

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 2007.



OPG continues to follow high standards 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 example, the food and water we ingest each year accounts for approximately 300 of those microsieverts.

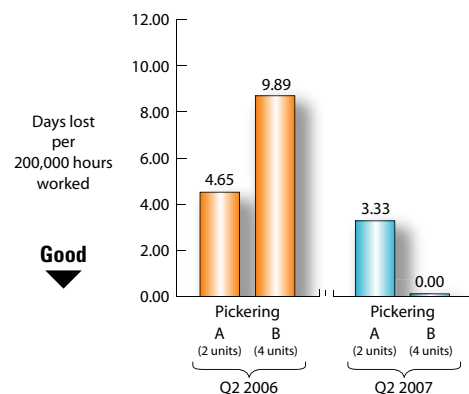
For Pickering Nuclear, the estimated additional exposure during the first quarter of 2007 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.5 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

Keeping Our Employees Safe

Pickering Nuclear's employee safety performance is measured against other companies. Safety performance is measured by the station's employee Accident Severity Rate (ASR), which measures the number

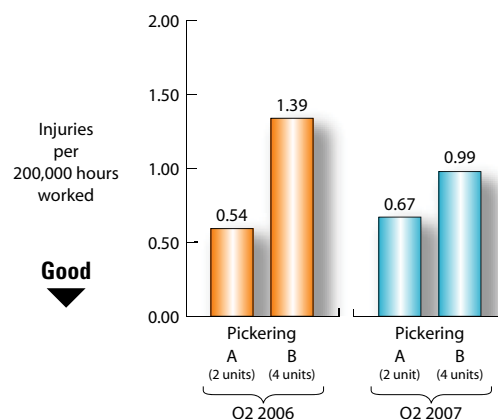
of days lost due to injuries per 200,000 hours worked. Pickering A registered a better than top quartile ASR of 3.33 in the second quarter. Pickering B achieved excellent performance with zero days lost per 200,000 hours worked in the second quarter and better than Canadian Electricity Association top quartile performance.

Employee Accident Severity 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 of 2007, Pickering A registered a 0.67 AIR while Pickering B registered 0.99 AIR. Pickering A and Pickering B both compared favourably against Canadian Electricity Association top quartile performance.

Employee All Injury Rate

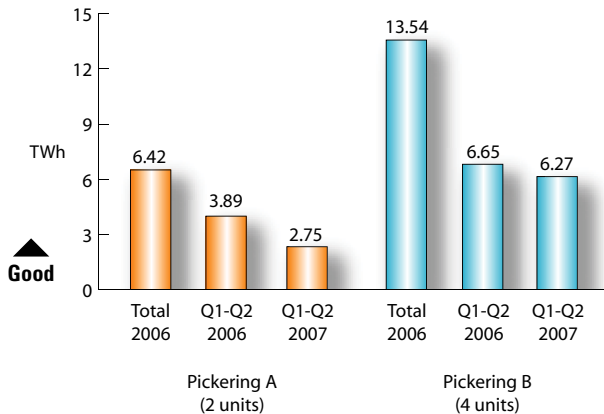


Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. During the second quarter of 2007, Pickering B employees achieved over 2.5 million hours without a lost-time injury.

Electricity Production

Pickering A and B Electricity Production (TWh)



During the first six months, Pickering Nuclear was challenged by unplanned outages and extensions to planned outages which impacted overall performance. Total production shortages at Pickering A and Pickering B can be attributed to a component failure and inadvertent release of resin by a third-party contractor from the water treatment plant into the demineralized water system. Steps are being taken to prevent such a release from occurring in the future.

During the second quarter of 2007, Pickering A registered lower than planned production. A conservative decision was made in June to shut down Unit 1 and Unit 4 to inspect and improve a backup electrical system.

During the second quarter of 2007, Pickering B registered a slight decrease in generation due to an extension on the Unit 5 planned outage and an unplanned maintenance outage on Unit 7.

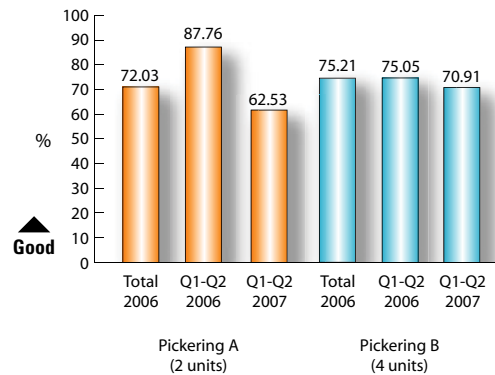
Unit Capability Factor

Another indicator of how well the stations are performing is the unit capability factor – basically a percentage of perfect generation a unit is capable of producing during a specified period.

Pickering A saw a decrease in its unit capability factor to 62.53 per cent compared to 87.76 for the same period last year due to problems with the backup electrical system on Unit 1 and Unit 4.

Pickering B saw a decrease in its unit capability factor to 70.91 per cent compared to 75.05 for the same period last year due to an unplanned maintenance outage on Unit 7.

Unit Capability Factor (%)



Protecting the Environment

During the first half of 2007, Pickering Nuclear did not record any major or moderate spills to the environment.

Milestones & Items of Interest

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

- The Durham Region Health Department recently issued an update to their 1996 report on radiation and health in Durham Region. Radiation and Health in Durham Region 2007 is a descriptive study that examined rates of various cancers and congenital anomalies and stillbirths in areas surrounding the Pickering and Darlington Nuclear stations. The study concluded that “disease rates in Ajax-Pickering and Clarington did not indicate a pattern to suggest that the Pickering NGS and the Darlington NGS were causing health effects in the population.” To view the report, go to the Region of Durham website at www.region.durham.on.ca
- During National Wildlife Week (April 8 to 15), OPG’s Corporate Citizenship Program sponsored visits to five area public schools by the Canadian Peregrine Foundation. OPG also sponsored and/or took part in several environmental events as part of Wildlife Week and Earth Day celebrations.
- Pickering Nuclear has installed a mesh net at the south end of the station’s cooling water intake channel as a measure to reduce the amount of algae (Cladophora) drawn into the intake channel. Mesh barriers have been used in the Great Lakes for more than 20 years to reduce problems from fish getting into power station cooling water intakes.

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