

2007 Performance Report

PICKERING NUCLEAR

This report discusses performance for Pickering Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during 2007.



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 example, the food and water we ingest each year accounts for approximately 300 of those microsieverts.

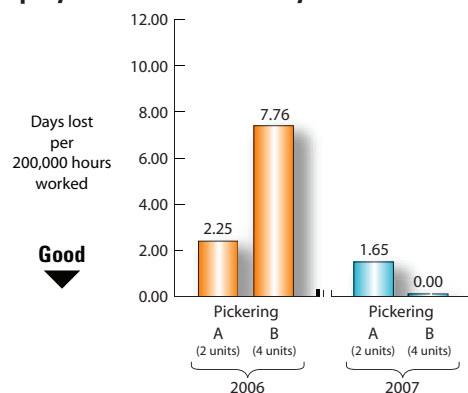
For Pickering Nuclear, the estimated additional exposure during 2007 for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 2.5 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted 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

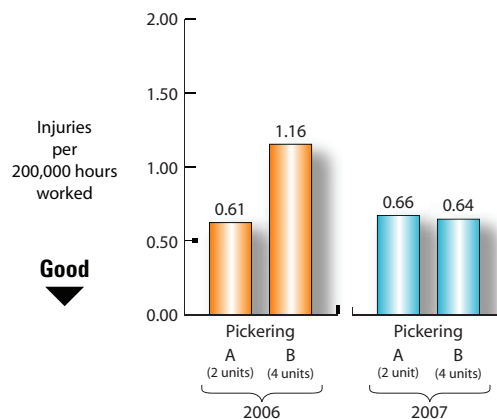
the number of days lost due to injuries per 200,000 hours worked. In 2007, Pickering A registered a better than top quartile ASR of 1.65. Pickering B achieved excellent performance with zero days lost per 200,000 hours worked and better than Canadian Electricity Association top quartile performance.

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. Pickering A registered a 0.66 AIR while Pickering B registered 0.64 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. In 2007:

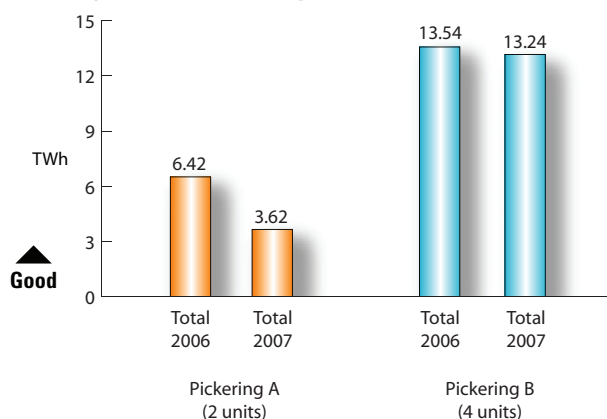
Pickering A employees achieved 1.5 million hours without a lost time injury.

Pickering B employees worked over 4 million hours without a lost time injury.

Pickering Chemistry employees achieved 10 years without a lost time injury.

Electricity Production

Pickering A and B Electricity Production (TWh)



In 2007, generation at Pickering A was impacted by a maintenance outage to make improvements to a backup electricity system, and repair work required due to a component failure during inspection. In addition, production at the Pickering B station during the first quarter of 2007 was affected by an inadvertent release of resin by a third-party contractor from the water treatment plant into the demineralized water system. Despite these events and their effect on production, Pickering A and Pickering B both had strong years in terms of safety and environmental performance.

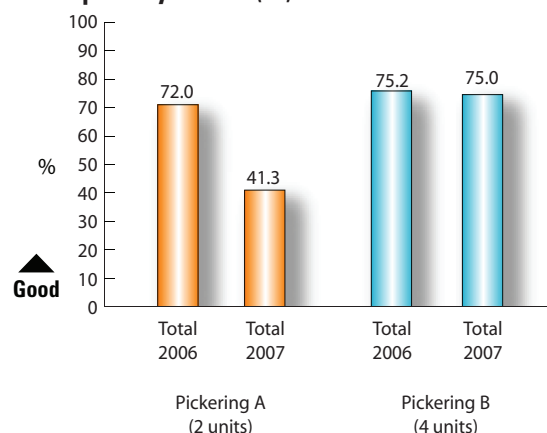
Pickering B registered a significant improvement in planned maintenance outage performance compared to performance in 2006.

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 B maintained its unit capability factor to 75.0 per cent compared to 75.2 for the same period in 2006.

In 2007, Pickering A registered a decrease in its unit capability factor to 41.3 per cent compared to 72.0 for the same period in 2006 due to a lengthy maintenance outage on a backup electrical system on Units 1 and 4.

Unit Capability Factor (%)



Protecting the Environment

During 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:

- Pickering Nuclear was recognized as Corporate Habitat of the Year by the international Wildlife Habitat Council. Pickering Nuclear also earned this award in 2001.
- Pickering Nuclear bettered the Canadian Electricity Association (CEA) All Injury Rate top quartile threshold, a benchmark standard for the electricity industry.
- Darlington Nuclear received an international Performance Improvement Award for its strong performance among international plants.



L-R: OPG's Bob Hester and Don Terry join Pickering Mayor Dave Ryan and Councillor Doug Dickerson in a celebration of OPG's award for Corporate Habitat of the Year.

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