

2008 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 2008.



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.

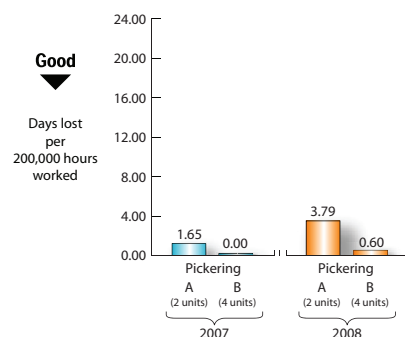
For Pickering Nuclear, the estimated additional exposure during the third quarter (most recent data) for people living nearest the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.9 microsieverts. This is a very small percentage of the amount we each receive 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

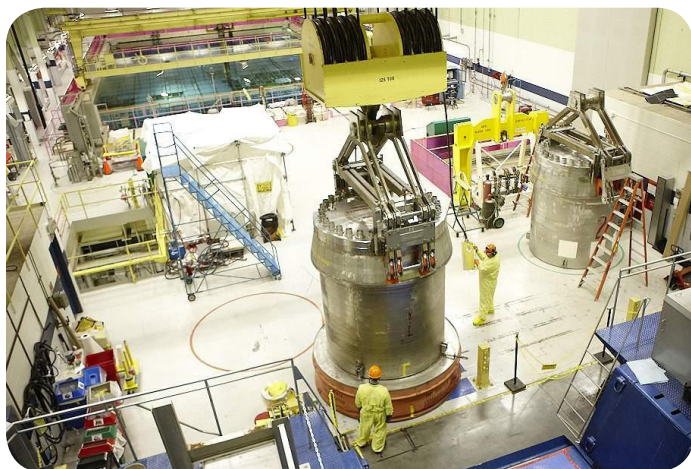
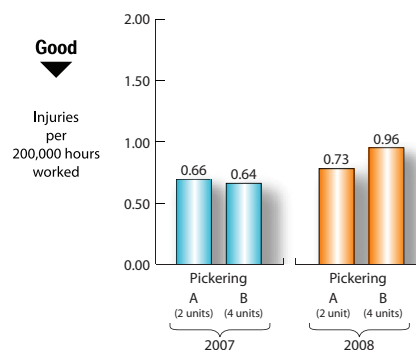
Canadian Electricity Association and the Electrical and Utilities Safety Association in recognition of OPG's safety management system and safety culture. In 2008, Pickering A reported an Accident Severity Rate (ASR) of 3.79. The most prevalent type of injury contributing to employee injuries involved muscle strains. Pickering B achieved excellent performance with a 0.60 ASR per 200,000 hours worked and better than Canadian Electricity Association top quartile performance.

Employee Accident Severity Rate



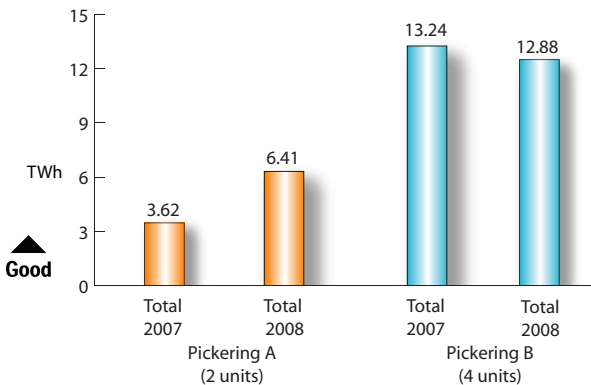
Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. Pickering A recorded 0.73 injuries while Pickering B recorded 0.96 injuries per 200,000 hours worked in 2008. This is excellent performance and places Pickering A and Pickering B below the top quartile industry performance category set by the Canadian Electrical Association.

Employee All Injury Rate



Electricity Production

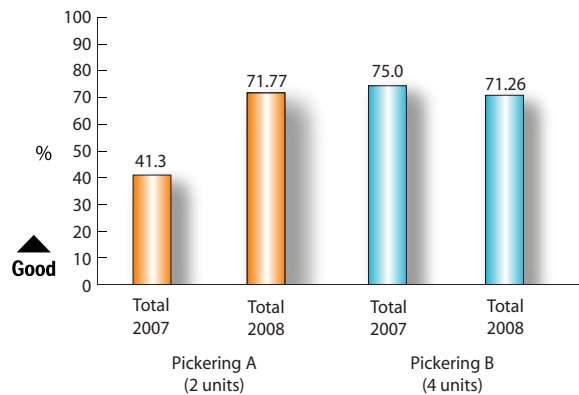
Pickering A and B Electricity Production (TWh)



In 2008, Pickering A produced 6.41 TWh generation surpassing its generation production in 2007. Pickering B produced 12.88 TWh generation in 2008 which is a minor decrease from 2007. Challenging maintenance outages impacted overall generation output.

Unit Capability Factor

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 significantly improved its unit capability factor to 71.77 compared to 41.46 in 2007. Unit 4 achieved a mid-year unit capability factor of 92.7 per cent – the highest capability factor of any Pickering unit and fourth highest of OPG's 10 nuclear reactors.

In 2008, Pickering B's capability factor was 71.26 – a decrease compared to 74.65 per cent in 2007. Pickering B Units 5 and 6 achieved excellent unit capability factors of over 90 per cent.

Protecting the Environment

During 2008, 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:

- On November 28, the Canadian Nuclear Safety Commission approved an Environmental Impact Statement which allows OPG to continue its ongoing work with placing Pickering Nuclear Units 2 and 3 in a state where they would not be returned to service.
- In 2008, as part of OPG's annual charity campaign Pickering and Darlington Nuclear employees donated \$847,000 to charities and local organizations..
- In celebration of their 20th Anniversary, the Wildlife Habitat Council also awarded 21 sites with the Signatures of Sustainability. This designation was received by both Pickering and Darlington.
- OPG is helping drive the future of mass transportation with cleaner, environmentally-friendly buses. With OPG's financial support, the University of Ontario Institute of Technology (UOIT) restored two electric buses rerouted from the rim of the Grand Canyon. Previously used to transport tourists, the buses were refurbished to make them roadworthy for environmental research and education in Ontario.
- Darlington Nuclear was selected from 146 sites across North America to be recognized as Corporate Habitat of the Year Award from the international Wildlife Habitat Council. The award recognizes continuous site improvement in wildlife habitat enhancement and restoration, and use of lands for teaching. Pickering Nuclear received this same recognition in 2007.



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