

2004 Performance Report for Pickering Nuclear

This report discusses performance statistics for Pickering Nuclear during 2004 in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the year.



Ensuring Public Safety

The number one priority at each of OPG's nuclear stations is to ensure that there are no public safety concerns as a result of our operations. Our nuclear stations are designed with multiple safety systems and are staffed by station personnel who are extremely well trained.

In the four decades that nuclear energy has served Canada's energy needs, no member of the public has ever been harmed as a result of a radiation leak 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.

The most recent (January to September 2004) data on radiation exposure at the perimeter of the Pickering A and B stations shows that a person living beside the station and eating food produced there would have received just over 4 microsieverts of radiation from the station. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

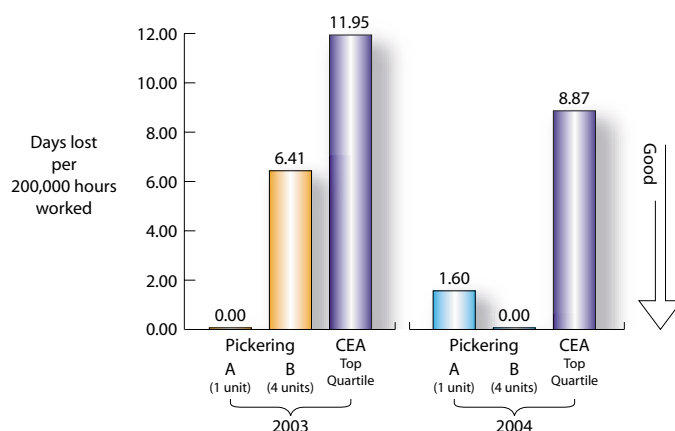
Keeping Our Employees Safe



Pickering Nuclear's employee safety performance is very good as measured against other companies. This is evidenced by the stations' employee Accident Severity Rate (ASR), which measures the number of days lost due to injuries per 200,000 hours worked. In 2004, Pickering A Unit 4 lost only 1.6 days per 200,000 hours worked. In the period that Pickering A operated after returning to service in September 2003 it had no days lost due to injuries per 200,000 hours worked. Pickering B had no days lost in 2004, significantly bettering its 2003 ASR performance. These

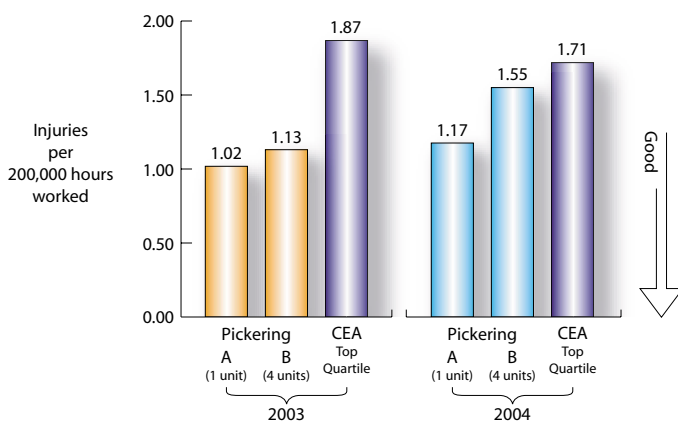
results are better than the threshold for top quartile safety performance of 8.87 days lost per 200,000 hours (2001-2003 average) established by members of the Canadian Electricity Association (CEA).

Employee Accident Severity Rate



Pickering Nuclear also achieved strong performance in another key safety measure - the employee All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. In 2004, Pickering A had 1.17 injuries per 200,000 hours worked; while Pickering B had 1.55. These results were slightly worse than in 2003 at each station, but they bettered the CEA's All Injury Rate top quartile threshold (2001-2003 average) for 2004, which was 1.71.

Employee All Injury Rate



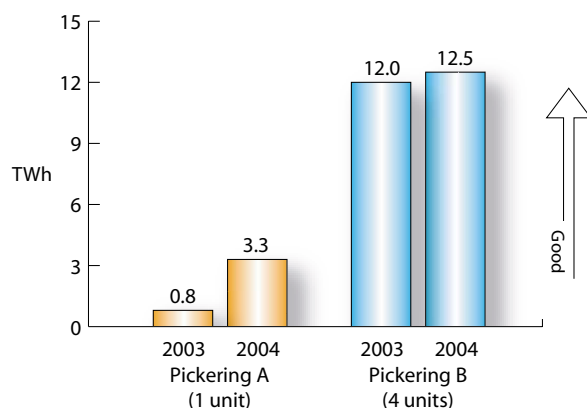
Safety Milestones

In 2004, Pickering Nuclear achieved several important safety milestones. For example:

- In January, the Nuclear Waste Management Division, Pickering Waste Management Facility, achieved 9.5 years without a lost time accident.
- Pickering B's Operation Production A Crew achieved 16 years without a lost time accident, also in January.
- In September, the Pickering Nuclear Chemistry Department achieved 17 years without a lost time accident.
- Pickering B reached more than 3.3 million hours without a lost-time accident.

Electricity Production

Pickering A and B Electricity Production (TWh)

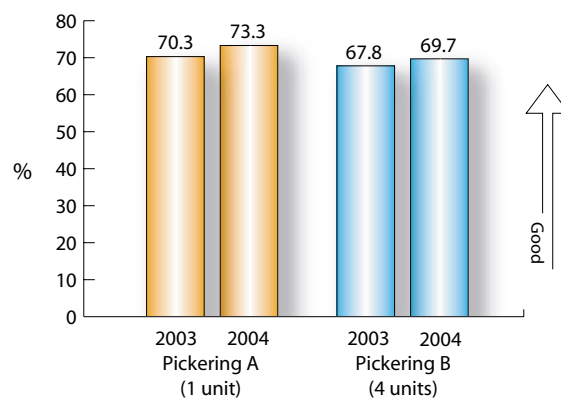


During 2004, Pickering A Unit 4 produced 3.3 terawatt hours (TWh) of electricity, an increase over the 0.8 terawatt hours produced in 2003. This reflects the fact that Unit 4 operated for the full year in 2004, as opposed to for only four months in 2003, when it returned to service in September of that year. Pickering A Unit 4 produced more than 2 per cent of the electricity used by the province in 2004.

The four units of Pickering B produced 12.5 terawatt hours of electricity in 2004, an increase over the 12.0 terawatt hours produced in 2003. The station produced about 8 per cent of the electricity consumed by Ontarians in 2004.

The Pickering nuclear stations are dedicated to continuously improving their electricity production. The stations' gross capability factors - which measure how much electricity the stations produced compared to how much they could have supplied if there had been no maintenance outages - both increased in 2004. Pickering A Unit 4 increased its capability factor from 70.3 per cent in 2003 to 73.3 per cent in 2004, while the Pickering B station's capability factor improved from 67.8 per cent in 2003 to 69.7 per cent in 2004. Pickering B's Unit 5 was one of the best performing nuclear units in Canada, with a capability factor of 92.6 per cent.

Gross Capability Factor (%)



Protecting the Environment

Pickering Nuclear maintained its ISO 14001 accreditation in 2004, which signifies that the stations have an environmental management system in place that meets a high international standard. During the year, Pickering Nuclear recorded one moderate spill (an on-site sewage spill) to the environment, the first in four years. The nuclear stations have not had a major spill in the past four years.

Significant Accomplishments

Some significant accomplishments achieved by Pickering Nuclear during 2004 include the following:

- Pickering Nuclear achieved a Certificate of Authorization from the Technical Standards Safety Authority to allow staff to modify and repair the stations' pressure boundary systems. OPG's nuclear stations are the first in Canada to receive such an authorization, which will save the company about \$2.5 million per year in contracting expenditures.
- The Canadian Nuclear Safety Commission issued a license to OPG for the expansion of the Pickering Waste Management Facility.
- The Canadian Electricity Association presented OPG with a Bronze Award for its employee safety performance.
- Research involving 22 (government, business and media) leaders in the Pickering area showed that the stations receive high marks for community citizenship. The rating of the stations by the community leaders improved from 6.9 out of 10 in 2003 to 7.4 out of 10 in 2004.



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