

Performance Report for Pickering Nuclear

SECOND 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 second 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 the first quarter of 2009 for people living nearest the station, based on their actual lifestyle characteristics and food consumption patterns, was 0.4 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

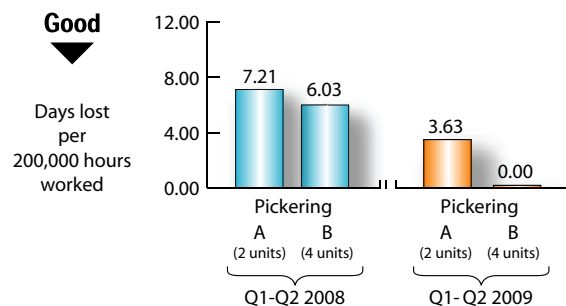
Keeping Our Employees Safe

OPG's first priority is the health and safety of employees and the public. In 2009, OPG received a ZeroQuest Gold Award from the Electrical and Utility Safety Association. The award recognizes OPG's effort to continuously improve our safety performance, health and safety management systems and safety culture. OPG was first recognized with the Gold Award in 2005, this latest award recognizes OPG's maintenance of this high level of performance for four consecutive years.

Employee Accident Severity Rate

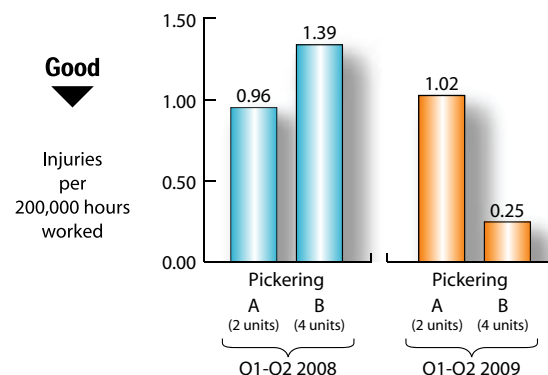
Pickering's employee safety performance is measured against other companies. One measure is the employee Accident Severity Rate (ASR) which measures the number of days lost due to injuries per 200,000 hours worked. During the second

quarter of 2009, Pickering A registered a higher than Canadian Electricity Association (CEA) top quartile ASR of 3.63 due to an employee who sustained a back strain. Increased communications on conventional safety awareness was launched focusing on musculoskeletal injury prevention. Pickering B achieved excellent performance with zero days lost per 200,000 hours worked in the second quarter and better than CEA top quartile performance.



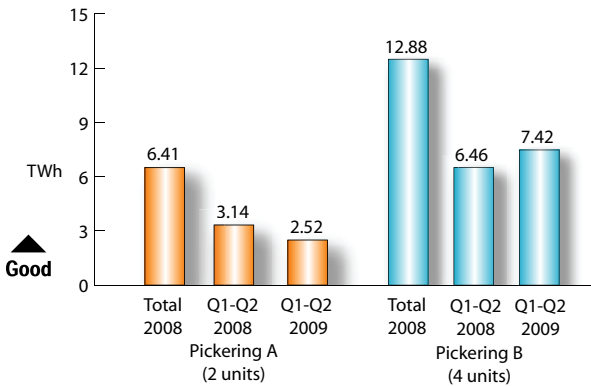
Employee All Injury Rate

Another key safety measure is the All Injury rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. Pickering A recorded an AIR of 1.02 which is slightly below the top quartile industry performance category set by the CEA. Pickering B registered 0.25 AIR achieving excellent performance and better than the top quartile industry performance category set by the CEA.



Electricity Production

Pickering A and B Electricity Production (TWh)

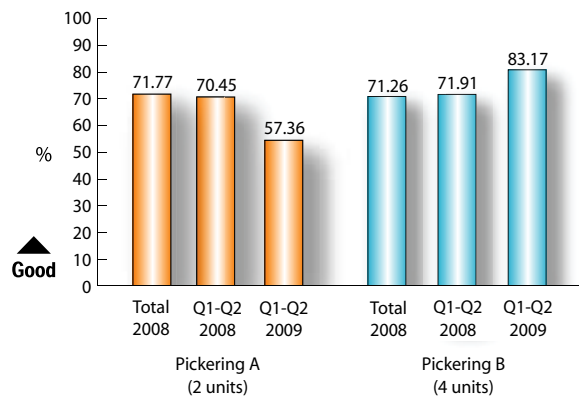


Pickering A produced 2.52 TWh generation in the second quarter of 2009 which is a decrease compared to the same period last year. Overall generation was affected by an extended planned maintenance outage on Unit 4 to allow additional maintenance work on steam release valves.

Pickering B produced 7.42 TWh of electricity reporting an increase compared to the same period last year. Overall generation production was impacted by an extended planned maintenance outage to allow maintenance on the High Pressure Service Water system and Shutdown Cooling Pumps.

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 57.36 per cent during the second quarter of 2009 compared to 70.45 per cent for the same period in 2008. This decrease was due to an extended planned maintenance outage on Unit 4.

During the second quarter, Pickering B achieved a unit capability factor of 83.17 an improvement over the same period last year and very good performance.

Protecting the Environment

During the second 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 released its annual assessment in which "CNSC staff concluded that nuclear power plants in Canada operated safely during 2008."
- In June, Deputy Premier and Minister of Energy and Infrastructure George Smitherman announced the suspension of the Infrastructure Ontario competitive Request for Proposal (RFP) process. The RFP was the method selected last year to procure two new nuclear reactors at the current Darlington Nuclear site. OPG continues the environmental assessment and licensing activities toward the successful preparation for two new units at the Darlington site.
- In support of biodiversity in the community, OPG "Green Team" employee volunteers participated in a tree planting in Alex Robertson Park. OPG and community partners have planted more than 6,000 trees in Alex Robertson Park since 2004.
- OPG Nuclear employees raised more than \$16,000 for the Big Bike for the Heart & Stroke Foundation.



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