

Performance Report for Pickering Nuclear

Q1 2017 Results

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation’s Pickering Nuclear in the areas of safety, operational and environmental performance and significant accomplishments during the first quarter of 2017.



Electricity Production – (the electrical energy generated, minus station needs):

OPG’s nuclear electricity generation for Q1 of 2017 totalled 10.0 terawatt hours (TWh) compared to 12.3 TWh in 2016 in the same quarter. In Q1, Pickering Nuclear produced 5.2 TWh of electricity, which was 14 per cent of the electricity produced in Ontario.



Reliability – Unit Capability Factor:

Compared to Q1 in 2016, Pickering’s unit capability factor for Q1 2017 was higher (78.48) primarily as a result of a decrease in the number of days the station was shut down for maintenance outages.



Environment – Spills to the Environment:

During Q1 2017, there were no spills to the environment at Pickering Nuclear that were reportable to a regulatory authority.

Safety

Accident Severity Rate:

The Accident Severity Rate (ASR) measures the number of lost days due to employee injuries per 200,000 hours worked. In Q1 2017, Pickering Nuclear recorded zero days lost per 200,000 hours worked which is better than the Canadian Electricity Association top quartile industry performance.

Employee All Injury Rate:

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. In Q1 2017, Pickering Nuclear recorded zero injuries per 200,000 hours worked which is better than the Canadian Electricity Association top quartile.



Legend



About OPG's Nuclear Power Stations

Ontario Power Generation owns and operates the Pickering and Darlington Nuclear Generating Stations. The two stations have a combined generating capacity of about 6,600 megawatts. Accounting for 26 per cent of the electricity produced in Ontario in Q1, OPG's 10 nuclear units generated 10.0 terawatt hours.



Keeping you informed about milestones and items of interest achieved by Pickering Nuclear and across OPG:

- Families from across Durham Region once again enjoyed our combined Darlington and Pickering March Break programs. Thousands attended the educational and environmental programs held in conjunction with our community partners including: Ganarska Region Conservation Authority, Claremont Conservation Area, Durham Children's Safety Village, Municipality of Clarington, WindReach Farm, Let's Talk Science, Pickering Public Library, City of Pickering and Central Lake Ontario Conservation Authority.
- Grade six students from Bayview Heights Public School joined OPG at the Pickering Information Centre in early February for the launch of the educational salmon hatchery. As part of the Bring Back the Salmon program held in partnership with the Ontario Ministry of Natural Resources and the Ontario Federation of Anglers and Hunters, the program is designed to restore the Atlantic salmon population in Lake Ontario by 2020. The salmon raised at the Information Centre become part of the overall number released into target streams annually. The students returned in late spring to release salmon fry into Duffins Creek in Claremont Conservation Area. Over the past six years, more than 700 salmon fry have been raised as part of the restoration program.
- Darlington and Pickering Nuclear proudly supported the Big Brothers Big Sisters (BBBS) annual 'Bowl for Kids Sake' fundraising initiative. OPG employees participated in various bowling events which took place throughout Durham Region. This is one of the organization's largest fundraising initiatives of the year. Proceeds raised, benefitted the wide arrange of mentorship programs offered within our host communities.
- After shutting down the Unit 2 reactor at the Darlington Nuclear Generating Station last fall, the Darlington Refurbishment project hit another milestone when the team successfully defueled and isolated the unit from the power plant on April 9. This work included removing 6,240 fuel bundles, draining critical nuclear systems and installing physical barriers between the shutdown reactor and the power plant. This milestone was achieved safely and ahead of schedule, concluding Segment 1 of the Unit 2 refurbishment schedule. The next phase of the project involves opening both airlock doors, removing interferences, installing shielding, and severing pressure tubes and bellows. The plan to continue operation of Pickering to 2024 is aimed at ensuring a reliable, clean source of base load electricity to offset the production impact of the Darlington and initial Bruce refurbishments. Pickering continued operations is a direct reflection of a positive Environmental Assessment, and an Integrated Safety Report, which confirms the safety and strength of the station's condition. OPG has started work on a licence application for Canadian Nuclear Safety Commission approval in 2018.

For more information go to: www.opg.com/generating-power/nuclear

Do you want to discuss any of our performance results with us? If so, please call us at 905-623-7122.