

Performance Report for Darlington Nuclear

Q4 2015 Results

Performance Update

As part of our commitment to keep you informed, this report tracks performance for Ontario Power Generation's Darlington Nuclear in the areas of safety, operational and environmental performance and significant accomplishments during the fourth quarter of 2015.



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

OPG's nuclear electricity generation for Q4 of 2015 totalled 8.8 terawatt hours (TWh) compared to 12.7 TWh in 2014 in the same quarter. In Q4, Darlington Nuclear produced 3.2 TWh of electricity, meeting 10 per cent of Ontario's electricity needs.



Reliability - Unit Capability Factor

Compared to Q4 in 2014, Darlington's unit capability factor for Q4 2015 was lower (76.87) primarily as a result of an increase in the number of days the station was shut down for maintenance outages.



Environment - Spills to the Environment

There were no spills to the environment at Darlington Nuclear in 2015 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 Q4 2015, Darlington Nuclear ASR is 2.20.



Employee All Injury Rate

The All Injury Rate (AIR) measures the number of workplace injuries per 200,000 hours worked. In Q4 2015, Darlington Nuclear recorded 0.22 injuries per 200,000 hours worked which is better than the Canadian Electricity Association top quartile industry performance.



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 almost 27 per cent of Ontario's electricity needs in Q4, OPG's 10 nuclear units generated 8.8 terawatt hours.



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

- The Canadian Nuclear Safety Commission has granted Darlington Nuclear a ten year operating licence, valid from Jan. 1, 2016 to Dec. 31, 2025. This is the longest licence ever granted to a Canadian nuclear power plant, reflecting the strong performance of the Darlington station and preparations for refurbishment.
- Delivery of Potassium Iodide (KI) pills to 200,000 homes and businesses within 10 km of the Pickering and Darlington Stations was completed in October by OPG, the City of Toronto and the Region of Durham, following an extensive awareness campaign. Residents and businesses requiring additional pills, or residents living within 50 km of the stations may order online at prepartobesafe.ca. New residents within the 10km zone will receive pills automatically.
- In November, OPG hosted an Aboriginal Trade Fair - a Day in the Trades - in collaboration with the Durham-GTA Chapter of Partners on Aboriginal Inclusion (PAID). The event showcased OPG's partnerships with Aboriginal communities and representatives within the skilled

trade industry. Over 20 vendors/contractors committed to Aboriginal inclusion participated. Attendees had the opportunity to experience various interactive demonstrations while learning about present and future employment opportunities within skilled trades.

- A battalion of pipefitters, electricians, carpenters, millwrights, boiler makers, maintenance staff and contractors safely completed 11,650 inspection and maintenance tasks to wrap up OPG's largest project of 2015 – the Darlington Vacuum Building Outage (VBO). The vacuum building is a 71-metre high cylindrical concrete structure connected to the reactor buildings by a pressure relief duct and is a unique safety feature of the CANDU system. OPG executed Darlington's VBO six years ahead of schedule to ensure the station is available during the upcoming multi-year refurbishment.
- Thanks to the extreme generosity of Darlington Nuclear employees, upwards of \$12,000 worth of food and toys were donated to the Durham Regional Police Service (DRPS) Food & Toy Drive on Thursday, Dec. 3. This annual charity campaign supports families and shelters in the Durham Region.

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