



Environmental Assessment Information Report: Ontario Power Generation – Darlington Nuclear Generating Station – Licence Renewal

June 2015



EXECUTIVE SUMMARY

The Canadian Nuclear Safety Commission (CNSC) conducts environmental assessments (EA) under the *Nuclear Safety and Control Act* (NSCA) for all projects in accordance with its mandate to ensure the protection of the environment and the health of persons.

This EA Information Report (EA Report), written by CNSC staff for the Commission and the public, describes the findings of the EA under the NSCA completed for the application by Ontario Power Generation (OPG) to renew their existing CNSC operating licence for, and complete proposed refurbishment activities on all units of, the Darlington Nuclear Generating Station (NGS). This EA under the NSCA includes CNSC staff's assessment of the licence renewal application and the documents submitted in support of the application, annual monitoring reports, the results of previous studies, compliance verification activities conducted at the Darlington NGS, as well as the findings of CNSC's Independent Environmental Monitoring Program (IEMP).

This EA Report focuses on items that are of current public and regulatory interest such as radiological releases to the environment, public dose, and updates on actions previously requested by the Commission with respect to specific environmental components.

CNSC staff's findings from this EA under the NSCA include, but are not limited to, the following:

- OPG's environmental protection programs meet CNSC regulatory requirements.
- The maximum effective dose to a member of the public from activities conducted at the Darlington site remains less than 1% of the regulatory limit of 1 millisievert (mSv) per year.
- OPG's radiological releases to the environment (air and water) remain well below the derived release limits.
- The results of the CNSC's IEMP confirm that the public and the environment in the vicinity of the Darlington site are protected from the releases of the facility.

Based on the EA under the NSCA conducted for this application, CNSC staff conclude that OPG has and will continue to make adequate provision for the protection of the environment and the health of persons.