



CMD 25-H2.49A

Date: 2025-06-03

Supplementary Information

Presentation from Kinectrics Inc.

In the matter of the

Ontario Power Generation Inc.

Application to renew power reactor
operating licence for the Darlington
Nuclear Generating Station

Commission Public Hearing Part-2

June 24-26, 2025

Renseignements supplémentaires

Présentation de Kinectrics Inc.

À l'égard d'

Ontario Power Generation Inc.

Demande concernant le renouvellement
du permis d'exploitation d'un réacteur de
puissance pour la centrale nucléaire de
Darlington

Audience publique de la Commission Partie-2

24-26 juin 2025



**Kinectrics' Support for Ontario Power Generation's (OPG)
Application to Renew its Power Reactor Operating Licence (PROL)
for the Darlington Nuclear Generating Station (DNGS)**

**Intervention to the Canadian Nuclear Safety Commission
June 2025**

Sean Donnelly, P.Eng. - Senior Director, Licensing & New Build

Who We Are



[Company](#)
[Video](#)

Kinectrics is a trusted global provider of electricity lifecycle services

We deliver innovative solutions that help to sustainably power a clean energy future.

Serving distinct global markets:

**Nuclear
+ T&D**

70+ Complete range of services across:

T&D Field Services & Testing
PPE Testing & Servicing
Design & Engineering
Business & Project Management
Nuclear Safety & Licensing
Lifecycle Management
Nuclear Outage & Site Support

Nuclear Equipment Development & Supply
Materials & Nuclear Component Testing
Forensic & Failure Analysis
Chemistry & Assaying
Radioactive Waste Management
Medical Isotopes

People



~**1300** highly technical staff

Facilities



Over **30+** unique laboratories

Customer



High satisfaction rating

Our People & Growth

We are a growing global company. We work alongside the brightest technical experts.



Safety is our Culture | Quality is our Promise

Statement of Support

Kinectrics shares OPG's vision that continued operation of the DNGS for an additional 30 years will have many benefits, including reducing CO₂ emissions, extending the need for skilled jobs, and ensuring a stable supply of medical isotopes.

- OPG and Kinectrics staff have developed long-standing working relationships and we have observed the high level of attention to detail and rigor that OPG staff exercise.
- Kinectrics is supported by over 100 companies and consultants on our Approved Suppliers List. Combined with our suppliers, Kinectrics' support of OPG contributes to thousands of high-quality, long-term jobs.
- Canada has a well-established regulatory framework that can support a 30-year operating licence. The comprehensive Periodic Safety Review (PSR) process and strong operating history at the DNGS further support a 30-year operating licence.

Relevant Projects to Continued Operation of the DNGS

- Supported the completion of a PSR to confirm the design, condition and operation of the DNGS supports continuing commercial operation from 2025 to 2035, which included a PSR Basis Document, Safety Factor Reports, a Global Assessment Report and an Integrated Implementation Plan for the implementation of safety enhancements.
- Supported the following DNGS Refurbishment projects:
 - Refurbishment Design Replication;
 - Primary Heat Transport Liquid Relief Valve Replacement Modification;
 - Addition of Unit 2 Auxiliary Shutdown Cooling Pumps;
 - Reduced Pressure Temperature Envelope Modifications: Emergency Coolant Injection Setpoint Changes;
 - Hydrogen Cooling Temperature Control Valve Control System Re-Design; and
 - Shutdown Cooling Heat Exchanger Replacement.

Relevant Projects to Continued Operation of the DNGS

- Performing a climate change resilience assessment to assess all the DNGS Structures, Systems, and Components for their potential vulnerability to the impacts of climate change and identification of strategies to mitigate these potential vulnerabilities.
- Updating Probabilistic Safety Assessments (PSAs), to ensure that the PSA models accurately reflect the current design and operation of the DNGS, including Level 1 and 2 Internal Events At-Power and Outage Internal Events PSAs, Seismic PSA, High Wind PSA and Fire PSA.

OPG and Indigenous Relations

Kinectrics is committed to maintaining positive, respectful and mutually beneficial relationships with Indigenous communities and groups in the past and present traditional territories where we operate.

- Kinectrics is a proud member of the Canadian Council for Indigenous Business (CCIB) which aims to strengthen the relationship between Indigenous and non-Indigenous peoples, businesses, and communities.
- We are pleased to work with OPG, which is also a member of the CCIB and has demonstrated a strong commitment to Indigenous peoples through initiatives such as:
 - Creation of an Indigenous Opportunities Network (ION)
 - Preparation of a Reconciliation Action Plan
- OPG has demonstrated a commitment to building and growing long-term, mutually beneficial working relationships with Indigenous communities.



Summary

- We are confident that OPG has undertaken a rigorous, systematic evaluation to demonstrate that the DNGS can continue to operate safely and reliably.
- The strong operating history at DNGS and comprehensive PSR process support a 30-year operating licence.
- On this basis, we support the approval of OPG's application to renew its PROL for the DNGS for the requested 30 years.





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