CMD 25-H2.47

Date: 2025-05-08

## Written Submission from the **Brilliant Energy Institute at Ontario Tech University**

# Mémoire de la **Brilliant Energy Institute at Ontario Tech University**

In the matter of the

À l'égard d'

### **Ontario Power Generation Inc.**

#### **Ontario Power Generation Inc.**

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

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

## **Commission Public Hearing** Part-2

Audience publique de la Commission Partie-2

June 24-26, 2025

24-26 juin 2025





May 8, 2025

To: Canadian Nuclear Safety Commission 280 Slater Street P.O. Box 1046, Station B Ottawa, ON K1P 5S9

# RE: Support for Ontario Power Generation's application to renew power reactor operating licence for the Darlington Nuclear Generating Station

Dear Commission Members,

On behalf of the Brilliant Energy Institute at Ontario Tech University, I write to express our strong support for the renewal of the power reactor operating licence for the Darlington Nuclear Generating Station (DNGS), as proposed by Ontario Power Generation (OPG).

As an institute dedicated to advancing clean energy technologies—including nuclear, hydrogen, and integrated energy systems—the Brilliant Energy Institute recognizes the strategic importance of DNGS to Ontario's energy resilience and climate commitments. Darlington not only delivers consistent low-carbon electricity but also provides a collaborative platform for academic-industry research and knowledge mobilization.

Our researchers are actively engaged with OPG on initiatives supporting safety enhancements, digital innovation, and sustainable reactor operations. The facility also serves as a practical training ground for our students, preparing them to lead in fields such as nuclear engineering, radiation protection, and system design.

OPG's commitment to operational transparency, Indigenous engagement, and environmental protection gives us confidence in its ability to maintain the high safety standards required for continued operation. Its longstanding track record of safe and reliable operations further reinforces our confidence in the organization's capacity to manage the facility responsibly over the long term. OPG's demonstrated leadership in building trust with host communities and Indigenous partners is commendable and essential to ensuring sustainable nuclear development in Canada.



For these reasons, we support OPG's request for a 30-year licence term. Such a term reflects both the operational maturity of the Darlington site and the strategic foresight necessary to enable long-term planning, investment, and innovation in support of Canada's clean energy objectives.

We respectfully submit this intervention to highlight the critical alignment between the Darlington Nuclear Generating Station and our institutional mission to support clean, reliable, and innovative energy systems.

Sincerely,

R. El. Eman

Rami El-Emam, PhD, P.Eng. Director, Brilliant Energy Institute Ontario Tech University rami.elemam@ontariotechu.ca

The Brilliant Energy Institute operates within Ontario Tech University's office of Vice President of Research and Innovation, which has proudly served as Canada's only IAEA Collaborating Centre since 2021, underscoring our global role in advancing peaceful nuclear applications.