



**Written submission from  
AECOM**

**Mémoire d'AECOM**

In the Matter of the

À l'égard d'

**Ontario Power Generation Inc.**

---

**Ontario Power Generation Inc.**

---

Application for a licence to construct one BWRX-300 reactor at the Darlington New Nuclear Project Site (DNNP)

Demande visant à construire 1 réacteur BWRX-300 sur le site du projet de nouvelle centrale nucléaire de Darlington (PNCND)

**Commission Public Hearing  
Part-2**

**Audience publique de la Commission  
Partie-2**

**January 8, 2024**

**8 janvier 2024**



AECOM Canada Ltd.  
105 Commerce Valley Drive West, 7<sup>th</sup> Floor  
Markham, ON L3T 7W3  
Canada

T: 905.886.7022  
F: 905.538.8076  
www.aecom.com

Senior Tribunal Officer  
Commission Registry  
Canadian Nuclear Safety Commission Headquarters  
280 Slater Street  
Ottawa, Ontario K1P 5S9

November 4, 2024

**Subject:** Ontario Power Generation's application for a License to Construct the first BWRX-300 power block.

AECOM Canada Nuclear Services Inc. (ACNS) brings decades of experience in delivering innovative solutions across the Canadian nuclear industry. Our team has supported major nuclear facilities in Ontario by providing engineering, project management, environmental assessments, and decommissioning support. With a deep commitment to safety, regulatory compliance, and sustainability, we leverage our varied expertise in the industry paired with trusted relationships to enhance operational efficiency and safety in all stages of nuclear projects. Our experience spans the lifecycle of nuclear facilities, from design and construction to maintenance, upgrades, and safe decommissioning, making us a trusted partner in Canada's evolving nuclear landscape.

AECOM is writing to you in support of OPG's application to obtain a License to Construct the first unit of the Darlington New Nuclear Project. We have observed firsthand that OPG has operated and maintained facilities under its authority in a manner that meets obligations and expectations under its operating license. More important we observe and appreciate their excellent nuclear safety culture. Furthermore, we believe that OPG has met all environmental and licensing application requirements in its submission and believe that this project should be supported based on the above.

The proposed first unit of the DNNP is an important step in achieving Canada's goal of becoming a Net Zero economy by 2050. As the energy transition in our country continues, the demand for electricity is expected to grow 47% from 2021 to 2050 which includes new areas such as electric vehicles and the expected increase in hydrogen production. Nuclear provides a low-carbon, high density, cost-competitive base-load solution to underpin the renewable infrastructure that continues to grow across the nation. Granting a license to construct the DNNP signals the CNSC's endorsement of nuclear power as a critical component of Canada's net-zero 2050 goal. This decision highlights confidence in nuclear energy's role in providing reliable, low-carbon power essential for long-term emissions reduction.

We are confident that the facility design and proposed construction meets the requirements laid out in the Canadian Nuclear Safety Commission's (CNSC Reg Doc-3.5.1) Licensing Process for Class I Nuclear Facilities and Uranium Mines and Mills.

Should you need any additional written interventions from me in advance of the public hearing please feel free to contact me.

AECOM is the world's premier infrastructure firm, delivering professional services throughout the project lifecycle – from planning, design and engineering to consulting, maintenance and construction management. We partner with our clients in the public and private sectors to solve their most complex challenges and build legacies for generations to come.

We are planners, designers, engineers, consultants, and service providers driven by a common purpose to deliver a better world.

Sincerely,  
**AECOM Canada Ltd.**

**Carl Daniel, M.A.Sc., P.Eng.**  
Vice President, Nuclear Sector Lead AECOM  
Canada Nuclear Services, Inc.