



**Written submission from
Orano Canada Inc.**

Mémoire d'Orano Canada Inc.

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 2025

Janvier 2025



Orano Canada Inc.

**Written Intervention for Ontario Power
Generation Corporation Application for a
Licence to Construct a Reactor Facility**

CNSC Public Hearing January 8, 2025

October 25, 2024

Orano Canada Inc.

Introduction

Please accept this correspondence as Orano Canada Inc's (Orano Canada) written intervention for Ontario Power Generation Corporation's (OPG) request to construct a reactor facility.

Orano Canada has been operating in Saskatchewan for 60 years in the areas of uranium mining and milling and exploration. Orano Canada is the operator of the McClean Lake Operation, a uranium mine and mill in northern Saskatchewan and a joint venture partner in the Cigar Lake, Key Lake and McArthur River Operations, which are operated by Cameco. Orano Canada is a wholly owned subsidiary of the Orano Group.

The Orano Group (Orano) is an international leader in the field of nuclear materials. Its expertise and mastery of cutting-edge technologies enable Orano to offer its customers high value-added products and services throughout the entire fuel cycle. Orano's 17,500 employees draw on their skills, unwavering dedication to safety and constant quest for innovation, with the commitment to develop know-how in the transformation and control of nuclear materials, for the climate and for a healthy and resource-efficient world, now and tomorrow. Orano is a global player spanning the entire nuclear cycle from uranium ore extraction to reprocessing and recycling used fuel. In addition to being one of the top 3 global producers of uranium, uranium conversion and enrichment, Orano also offers services in nuclear dismantling and nuclear transport.

The world is facing a climate crisis. At Orano we know that nuclear is one of the solutions to decarbonizing the production of electricity, to meet the targets of the 2015 Paris Climate Accords, and ultimately drive global progress toward a sustainable, low-carbon future in the face of increasing energy demands. The BWRX-300 Small Modular Reactor, proposed by Ontario Power Generation (OPG) at the Darlington Facility will play a significant role in mobilizing nuclear power with a quicker to deploy, cost effective and scalable solution in Canada and beyond. Boiling water reactor technology is safely operating at established nuclear facilities outside of Canada and will be operated in Canada by OPG, a proven nuclear operator with over 50 years of safe, reliable nuclear experience.

The Orano Group owns and operates the Georges Besse II enrichment facility in France, capable of producing 7,500,000 Swu. In 2024 Orano Group announced its decision to expand George Besse II total enrichment capacity by 30%. In December of 2023, Orano was pleased to announce a partnership with OPG for the supply of enriched uranium to power the BWRX-300 SMR. This SMR technology uses low enriched uranium fuel, which will be supplied and processed by partners in Canada, France, and the United States. Under this arrangement, Orano will supply part of the enriched uranium to power the SMR. We are pleased to be part of this advancement in Canada's nuclear power fleet. Orano has produced enriched uranium for the fabrication of fuel for nuclear power plants at its Tricastin industrial platform in France, contributing to and confirming the safe supply of fuel for the BWRX-300 SMR. We have confidence in the safety of this fuel type due to successful operating experience in other jurisdictions.

Conclusion

In conclusion, Orano fully supports OPG's application for a 10-year licence to construct a Class 1A Nuclear Facility at OPG's Darlington Nuclear site. Orano is confident that OPG can continue to safely construct this facility, while protecting its staff, the environment and engaging in transparent and appropriate Indigenous and public consultations.