



**Written Submission from the  
Nuclear Waste Management  
Organization**

**Mémoire de la  
Société de gestion des déchets  
nucléaires**

In the matter of the

À l'égard d'

**Ontario Power Generation Inc.**

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

**Ontario Power Generation Inc.**

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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

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May 5, 2025

NWMO-REG-00531-0241

Senior Tribunal Officer, Commission Registry  
Canadian Nuclear Safety Commission  
280 Slater Street P.O. Box 1046, Station B  
Ottawa, Ontario K1P 5S9

**Intervention in the matter of OPG's application for a power reactor operating licence renewal for the Darlington Nuclear Generating Station**

The purpose of this letter is to support the application by Ontario Power Generation (OPG) for a Power Reactor Operating Licence (PROL) renewal for the Darlington Nuclear Generating Station (DNGS).

In 2002, the Government of Canada enacted the *Nuclear Fuel Waste Act*. Pursuant to that Act, the Nuclear Waste Management Organization (NWMO) was created by the current owners of the nuclear fuel waste in Canada, including OPG, and was given the mandate to first develop and then implement a plan for the long-term management of Canada's used nuclear fuel. The NWMO is obliged by the *Nuclear Fuel Waste Act* to offer its services to all owners of nuclear fuel waste produced in Canada, including irradiated fuel bundles removed from any commercial or research nuclear fission reactor. These services must be provided without discrimination and at a fee that is reasonable in relation to its costs of managing the used nuclear fuel.

In November of 2024, following a community-led site selection process, the NWMO selected a site in northwest Ontario near the Township of Ignace in the traditional territory of Wabigoon Lake Ojibway Nation for the deep geological repository for Canada's used nuclear fuel. We are grateful to Wabigoon Lake Ojibway Nation and the Township of Ignace for their involvement in this process and the positive response that was received in support of moving forward to the next steps of implementing this important infrastructure project. The used nuclear fuel from the Darlington Nuclear Generating Station is planned to be emplaced in this deep geological repository.

The NWMO is currently working through the regulatory decision-making process for the repository to be sited in northwest Ontario. This process is completely independent of the OPG DNGS PROL renewal process, as Canada's Policy for Radioactive Waste, the *Nuclear Fuel Waste Act* and the NWMO's mandate remains in place regardless of the outcome of any of these processes and the NWMO remains responsible for the used fuel disposal from the current Darlington Nuclear Generating Station.

The NWMO is also exploring how to address intermediate-level waste and non-fuel high-level waste. The NWMO received the mandate for intermediate-level and non-fuel high-level radioactive waste following the Minister of Energy and Natural Resources' acceptance of Canada's Integrated Strategy for Radioactive Waste on October 5, 2023. The NWMO is developing a consent-based siting process for a deep geological repository to address this expanded mandate.

Deep geological repositories remain the technology of choice in all countries with advanced nuclear power programs for a variety of types of used nuclear fuel as well as for intermediate-level waste. The radiological containment provided by the NWMO's deep geological repository will ensure that the public and the environment are protected.

In summary, the NWMO remains responsible for the long-term management of Canada's used nuclear fuel and intermediate-level waste, which would include those wastes from the Darlington Nuclear Generating Station.

Thank you for the opportunity to provide comments on this matter. The NWMO is also requesting to provide comments orally during renewal hearing.

DocuSigned by:

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