



**Written submission from
Women in Nuclear**

**Mémoire de
Women in Nuclear**

In the Matter of

À l'égard de

**Application to allow the production of
lutetium-177(Lu-177) at the Bruce Nuclear
Generating Station (NGS)**

**Demande de modification de permis visant à
permettre la production de lutécium 177 à la
centrale nucléaire de Bruce**

Public Hearing - Hearing in writing based on
written submissions

Audience Publique - Audience fondée sur des
mémoires

June 2021

Juin 2021



Tribunal Officer, Secretariat
Canadian Nuclear Safety Commission
280 Slater Street, P.O. Box 1046, Station B
Ottawa, Ontario K1P 5S9
Email: cncs.interventions.ccsn@canada.ca

May 25, 2021

Re: Bruce Power Licence Amendment Application (June 25, 2021 Hearing in Writing)

Dear President and Commission Members,

We the undersigned are writing to you today to express our support Bruce Power Licence Amendment Application. As you may know, Women in Nuclear Canada is a national not-for-profit organization with more than 3,300 members. WiN Canada is also a member of WiN Global, a worldwide association of more than 35,000 members. Since 2004, WiN Canada has worked to meet three challenging goals. The first is to engage and educate the public regarding the safe use of nuclear and radiation technologies and the benefits to people and society. The second is to provide professional development opportunities for WiN Canada members through knowledge and experience exchange opportunities. The third is to support the growing need for qualified workers in STEM and skilled trades in the nuclear industry.

Situated on the shore of Lake Huron, Bruce Power provides more than 30 per cent of Ontario's electricity at 30 per cent less than the average cost to generate residential power. Bruce Power's team are proud of the role they play in safely delivering clean, reliable, low-cost nuclear power to families and businesses across the province and life-saving medical isotopes across the globe. Bruce Power has been a great supporter of WiN Canada assisting with our growth and mission through sponsorship support and partnership opportunities. Almost 500 of our members are employed at Bruce power, members are not limited to the female gender.

Medical isotope production represents one of the key methods in which nuclear science positively impacts Canadians, providing transformative and alternative cancer treatments while also generating sustainable economic and societal benefits. The clearest and widest-reaching benefits come from the enabling of life-saving medical treatments by providing medical isotopes for patient use. Some medical isotopes, including lutetium-177 (Lu-177), require a target to be irradiated with neutrons, typically produced using a research reactor that has been designed for flexibility and easy access.

Bruce Power's ability to contribute to the supply chain of Lutetium-177 will become increasingly important for Canadians and patients around the world. Its unique properties emit sufficient gamma radiation for imaging, while its beta radiation allows for the therapeutic treatment of tumours, helping to save thousands of lives. Due to the medical possibilities WiN Canada believes it is essential Bruce Power be granted a licence amendment to produce Lutetium-177 and fulfill their goal to supply the world market with Lu-177 in 2022.





Lisa McBride
Women in Nuclear Canada, President

