Canadian Nuclear Safety Commission | Commission canadienne de sûreté nucléaire

CMD 26-H110.12

Date: 2026-06-30

Written Submission from Nuclear Innovation Institute Canada

Mémoire du Nuclear Innovation Institute Canada

In the matter of

À l'égard du

Bruce Power

Bruce Power

Application to change the lutetium-177 production process at Bruce A and B Nuclear Generating Stations

Demande visant à modifier le processus de production de lutécium 177 aux centrales nucléaires de Bruce A et B

Hearing in Writing

Audience par écrit

July 2026

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Canada

June 26, 2026

To:
Tribunal Officer, Secretariat
Canadian Nuclear Safety Commission
280 Slater Street
P.O. Box 1046, Station B
Ottawa, ON K1P 5S9
cnsc.interventions@canada.ca

Dear President and Commission Members,

Re: Commission Approval to Operate a Hot Cell at Bruce Power Site

I'm writing on behalf of the Nuclear Innovation Institute (NII), Canada's premier research institute for the clean energy sector and a member-based not-for-profit organization with a unique role driving sector transformation, skill development and an innovative nuclear voice.

As one of NII's Founding Members, Bruce Power has played a pivotal role and has been a valued partner in advancing innovation and driving meaningful progress across Canada's nuclear sector.

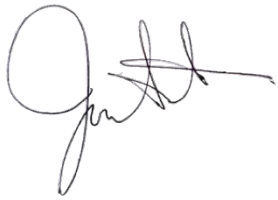
Since 2019, Bruce Power has produced medical-grade cobalt-60, which is used in radiation therapy for diseases including brain and breast cancer. In 2022, Bruce Power's Isotope Production System (IPS) in Unit 7 became the first commercial nuclear power reactor to produce lutetium-177, which is used to treat prostate cancer. Planning is underway to scale out the IPS to Unit 6 in 2027, as Bruce Power continues to have great capacity to scale lifesaving isotope production.

Bruce Power's newly constructed hot cell will support Canada's medical isotope supply chain. Hot cells are shielded enclosures that allow for the safe handling of irradiated materials. Bringing the hot cell operations to the Bruce Power site will streamline logistics and support operator safety, while limiting the need for off-site transport.

Through a historic partnership with the Saugeen Ojibway Nation (SON), Bruce Power ensures that investments made by SON result in a sustained revenue stream to support local Indigenous development projects. Bruce Power is committed to continuing to share timely and accurate information about its operations activities with the community and its partners, engaging in two-way dialogue and engaging stakeholders in the company's operations in the region.

NII is host to the Southwestern Ontario Isotope Coalition, which Bruce Power has been an active partner of since its inception. The SOIC serves as a collaborative partnership, bringing municipalities, healthcare organizations, Indigenous partners, post-secondary institutions, industry and economic development leaders together around a shared vision of strengthening southwestern Ontario's isotope ecosystem. The Nuclear Innovation Institute supports Bruce Power's request to include the operation of a hot cell at the Central Maintenance Facility, as they continue to drive Canada's position as a global leader in the nuclear sector.

Sincerely,



Jessica Linthorne
President and CEO
Nuclear Innovation Institute