



**Written submission from  
Westinghouse Electric Canada**

**Mémoire de  
Westinghouse Electric Canada**

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)**

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

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Public Hearing - Hearing in writing based on  
written submissions

Audience Publique - Audience fondée sur des  
mémoires

**June 2021**

**Juin 2021**

**May 27, 2021**

Tribunal Officer, Secretariat  
Canadian Nuclear Safety Commission  
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P.O. Box 1046, Station B  
Ottawa, Ontario K1P 5S9  
Email: [cns.interventions.ccsn@canada.ca](mailto:cns.interventions.ccsn@canada.ca)

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

Dear President and Commission Members,

As President of Westinghouse Electric Canada Inc. (Westinghouse), I am pleased to present this letter in support of Bruce Power's Licence Amendment Application to produce Lutetium-177 (Lu-177), a novel radioisotope with promising results and a wide range of applications in nuclear medicine.

Our support is based primarily on two important considerations.

First, Bruce Power is already a recognized supplier of life-saving medical isotopes to users around the globe, such as Cobalt-60 (Co-60). The current Licence Amendment Application to the CNSC will allow the production of Lu-177 to supply the global market in 2022. Bruce Power's production of such isotopes contributes directly to enhancing the quality of life in Canada and around the world. Both isotopes – Cobalt 60 and Lu-177 – play a vital role in the fight against diseases as therapeutic and diagnostic agents and are widely used in the sterilization of medical equipment.

Second, besides supplying Ontario's grid with clean, reliable and carbon-free electricity, Bruce Power has a proven record, nationally and internationally, for excellence in safety. As the operator of the second largest nuclear generating station in the world, Bruce Power's operational performance and safety culture is second to none.

I am able to testify to both these considerations from first-hand Westinghouse experience.

On isotopes, Westinghouse too is working in the nuclear-generated isotope field, harnessing Canadian-based technological expertise to U.S.-based pressurized water reactors in a way that has not hitherto been achieved. Working closely with Nordion in Kanata, Ontario, we are preparing to create additional Cobalt-60 supply for public health through sterilization techniques. Harvesting such isotopes from the U.S. nuclear reactor fleet will play a role in filling a large and growing demand, where Westinghouse's work will complement Bruce Power's Cobalt-60 production.

May 27, 2021

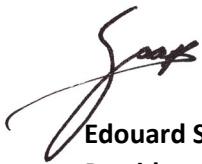
Westinghouse also has a track record in providing the Canadian nuclear industry with specialized nuclear engineering, manufacturing and field services. We serve a large client base of nuclear utilities and facilities in Ontario and New Brunswick, including Bruce Power. Currently, Westinghouse is working closely with Bruce Power on its Major Component Replacement (MCR) program, as part of the ongoing life-extension of its CANDU reactor fleet.

This is why, given our association with Bruce Power and familiarity with its operating ethos, its safety record and its outstanding commitment to public health and clean energy, we have unwavering confidence in Bruce Power's ability to produce Lu-177 safely.

The Canadian and global need for Lu-177 is real. In recent years, the efficacy of using Lu-177-based radiopharmaceuticals in radiotherapy for treating specific tumors has been demonstrated. However, the future of Lu-177 supply remains uncertain leaving it at risk of future shortages. Bruce Power's stepping up to fill the supply gap is therefore to be commended. Moreover, we can count on Bruce Power to keep the safety of personnel, the public, and the environment above all considerations.

For these reasons, Westinghouse strongly supports Bruce Power's Licence Amendment Application and we ask the Commission to consider it positively.

Thank you,



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