



CMD 26-H110.13

Date: 2026-06-30

**Written Submission from
Kinetrics Inc.**

**Mémoire de
Kinetrics Inc.**

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

Juillet 2026



June 30, 2026

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

Hearing in Writing on Bruce Power's Application to Change the Lutetium-177 Production Process at the Bruce A and B Nuclear Generating Stations

Dear Commission Secretariat,

The purpose of this letter is to express Kinectrics' support for Bruce Power's application to amend the licensing basis to authorize additional steps in the production of Lutetium-177 (Lu-177) at the Bruce A and B Nuclear Generating Stations (NGSs).

Kinectrics is a proudly Canadian company committed to supporting the safe, reliable, and sustainable generation of electricity in Canada and internationally. We provide complete life cycle management solutions to the electricity industry, supporting the deployment, licensing, and continued safe operation of nuclear generating facilities, working with our customers to fight climate change and save lives through clean electricity generation and medical isotope production.

Our headquarters are in Etobicoke, Ontario with offices in Pickering, downtown Toronto, Bruce County, and internationally, including the United States, Germany, Denmark, Romania, the United Kingdom, and India. We operate over 30 laboratories, including Canadian Nuclear Safety Commission-licensed nuclear facilities, and employ more than 1,300 staff, approximately 70% of whom have technical, science, or engineering degrees.

Kinectrics has made significant investments in the production of medical isotopes, and we share Bruce Power's vision of the importance of providing medical isotopes for therapeutic treatments and equipment sterilization. Bruce Power is a global leader in medical isotope production, including the production of Cobalt-60 (Co-60) and Lu-177. The operation of the hot cell at Bruce Power's Central Maintenance Facility (CMF) represents a significant advancement in Bruce Power's ability to maintain a long-term supply of Lu-177 with significant health, safety, and social benefits. Kinectrics believes that it is important to continue to invest in Canadian-based technologies that will maintain Canada's prominence in medical isotope production, and it is our responsibility to ensure these isotopes are available in Canada and globally to protect the health of patients.



Kinectrics provides a broad range of services to Bruce Power which contribute to the continued safe operation of the Bruce Power stations. Specific to the Lu-177 Hot Cell Project, Kinectrics has worked closely with Bruce Power through all phases of the project, including:

- Supporting the design, procurement, installation, commissioning, and training of operations and maintenance staff for the Target Carrier Removal (TCR) process of Lu-177 at the hot cell. To date, the design and major construction of the hot cell have been completed. Kinectrics continues to support Bruce Power in the commissioning phase of the project.
- Completed safety analysis to support the hot cell design, including the identification and assessment of internal and external hazards, radiological consequence assessments, and radiation shielding analyses.

In providing these services to Bruce Power, Kinectrics' staff interfaced with Bruce Power staff where we have developed long-standing working relationships. Kinectrics has observed the high degree of attention to detail and rigor that Bruce Power staff possess. Kinectrics is confident in Bruce Power's commitment to produce, possess, manage, package, and transfer the Lu-177 radioisotope from the hot cell safely and reliably.


Kinectrics is a proud member of the Canadian Council for Indigenous Business (CCIB), which aims to strengthen the relationship between Indigenous and non-Indigenous peoples, businesses, and communities. In this regard, we are pleased to work with Bruce Power, which is also a member of the CCIB and has demonstrated a strong commitment to Indigenous communities.

In summary, by working closely with Bruce Power and understanding their principles and safety culture, we are confident that Bruce Power has undertaken a systematic and comprehensive review of the impacts associated with the operation of the hot cell to produce Lu-177. Based on these experiences, Kinectrics is confident that Bruce Power is capable of possessing, managing, packaging, and transferring Lu-177 at the CMF hot cell.



On this basis, we support the approval of Bruce Power's application to amend the licensing basis to authorize additional steps in the production of Lu-177.

Sincerely,

 John D'Angelo
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John D'Angelo
President
Kinectrics Inc.