



Written submission from Canadian Light Source

Mémoire de Canadian Light Source

In the Matter of

À l'égard de

McMaster University

Université McMaster

Application to renew its McMaster Nuclear
Reactor Class IA non-power reactor operating
licence

Demande concernant le renouvellement de son
permis d'exploitation d'un réacteur de catégorie
IA non producteur de puissance pour le réacteur
nucléaire McMaster

Public Hearing - Hearing in writing based on
written submissions

Audience publique - Audience fondée sur des
mémoires

April 2024

Avril 2024



March 7, 2024

RE: McMaster University Research Reactor Licence Renewal (Licence #NPROL-01)

To Whom it May Concern,

I am writing in support of the McMaster University Research Reactor Licence renewal (#NPROL-01).

The McMaster Nuclear Reactor (MNR) has been operational since 1959, and in the past 64 years its flexible design with its end use as a multi-purpose research facility in mind, has propelled McMaster to become Canada's Nuclear University. Its suite of nuclear facilities are one of a kind in an educational institution setting.

The MNR:

- Is a world leader in the production of iodine-125, a radioactive isotope that is used in the treatment of prostate cancer, with 70,000 treatments a year being sent around the world. McMaster continues to be a leader in isotope production and research and most recently manufactured and packaged its first patient dose of holmium-166 for liver cancer treatment trials.
- Is a world leader in neutron beam research and development leading the way in research and development of new materials and technology.
- Conducts hundreds of thousands of neutron irradiations every year, many in support of industry (mining exploration, environmental samples etc.).

In addition, as an active contributor to the Federal governments Small Modular Reactor (SMR) Action Plan, McMaster University has proven itself to be a national leader in SMR research with its commitment to low carbon energy. SMRs have the potential to change the future of low carbon energy production in Canada (and around the world) and experts at McMaster are spearheading research in SMR design, deployment and safety. SMR technology will be a key driver in the ability to transform communities with the abundance of low carbon energy.

Canada is a tier-1 Nuclear nation, and it can only remain so with institutions such as McMaster who can support the growing demands of research, education, and expertise in the nuclear field. McMaster is a valuable collaborator to industry and research partners across Canada and internationally. Renewing McMaster's Licence will ensure its continued success in these important areas and ensure that Canada continues to be a nuclear leader.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Matiko".

Bill Matiko,
Chief Executive Officer, CLS