



Supplementary Information

Presentation from Jennifer Hannigan

In the Matter of the

**New Brunswick Power Corporation,
Point Lepreau Nuclear Generating Station**

Application for the renewal of NB Power's
licence for the Point Lepreau Nuclear
Generating Station

**Commission Public Hearing
Part 2**

May 10 to 12, 2022

Renseignements supplémentaires

Présentation de Jennifer Hannigan

À l'égard de la

**Société d'Énergie du Nouveau-Brunswick,
centrale nucléaire de Point Lepreau**

Demande de renouvellement du permis
d'Énergie NB pour la centrale nucléaire de
Point Lepreau

**Audience publique de la Commission
Partie 2**

10 au 12 mai 2022

Intervention PLNGS Hearing CMD# 22-H2.171

May 11, 2022

Dr. Jennifer Hannigan MD CCFP-PM

- Radioactive Waste
- Radioactive and Carcinogenic Emissions
- The Impact of Radiation Exposure on Human Health
- The Impact of Nuclear and Radiation “Accidents”

Radioactive Waste

- No proven-safe option for permanent disposal
- Deep Geological Disposal (DGD)
 - Inadequate evidence
 - Long-term ramifications unknown
- Toxic longevity of High-Level Waste (HLW)

Radioactive and Carcinogenic Emissions

- “Safe” levels of specific toxins and known carcinogens
- If we know that a substance is carcinogenic to human beings, why do we tolerate the exposure?
- Evidence in medical literature
- There is no “safe” level

The Impact of Radiation Exposure on Human Health

- Concerning, vast, and cumulative
- Low-level exposures can cause cell and DNA mutations
 - sterility
 - malignancies
 - hereditary disorders
- Children and developing fetuses

The Impact of Nuclear and Radiation “Accidents”

- Nuclear “accidents” are not uncommon
- >100 serious nuclear accidents and incidents worldwide (2014)
- 57 “accidents” or severe incidents since the Chernobyl disaster
- Repercussions are devastating and irreparable
- Decontamination and emergency preparedness cannot address the devastation

The Impact of Nuclear and Radiation “Accidents”

- Our local health care system is unprepared to deal with a nuclear incident
- Nuclear “accidents” are predictable and preventable and are therefore not accidents at all

The Commission's Mandate

To “protect health, safety and security of the environment”

Renewal of the operating license for the PLNGS is incompatible with this mandate



Recommendations

- Honesty
- Acceptance
- Take responsibility
- No further renewals of licenses for nuclear power plants
- Invest all of our knowledge, skills and resources to support the decommissioning of the NB Power Point Lepreau Nuclear Generating Station.