



**Written submission from
Annette Chaplin**

**Mémoire d'
Annette Chaplin**

In the Matter of the

À l'égard des

Canadian Nuclear Laboratories (CNL)

Laboratoires Nucléaires Canadiens (LNC)

Application from the CNL to amend its Chalk River Laboratories site licence to authorize the construction of a near surface disposal facility

Demande des LNC visant à modifier le permis du site des Laboratoires de Chalk River pour autoriser la construction d'une installation de gestion des déchets près de la surface

**Commission Public Hearing
Part 2**

**Audience publique de la Commission
Partie 2**

May and June 2022

Mai et juin 2022

Filed on April 11, 2022

On behalf of CNL's license change to support construction of the NSDF as proposed.

By approving the licensing of the NSDF, we have a chance to support the only energy source that can meet our environmental and energy needs for the future.

Nuclear energy has been around since at least the big bang. We have been harnessing this energy since we walked the face of this earth – in the form of sun and solar, geothermal hot springs, etc.

The nuclear industry – harnessing the energy of splitting atoms is new from the last century. Anything with the ability to produce vast amounts of energy can be dangerous. We have learned to deal with the danger. We understand the risks well enough to know that low amounts of radiation are harmless, and we are able to keep emissions at that harmless level.

Canada needs an energy source that is not dependent on wind speed or sunny days. It needs a green energy – batteries are not a green industry. Wind turbines use huge amounts of good farmland and have their environment costs in the form of noise, wildlife destruction, and waste. Solar panels are expensive to make, difficult to recycle, and again lead to much waste.

Both solar and wind need tons of batteries which come with their own brand of chemical dangers which leads to problems of waste disposal and pollution. Solar and wind energy are not green, and they do not produce enough power when most needed. Keep the solar and the wind for what it can be well used for – an auxiliary source of energy for everyone, and a great source for off grid homes and communities.

We need to get away from coal, gas, and oil. The dependency on these sources leads to many deaths due to pollution and war. There are 14,600 deaths in Canada per year according to Health Canada from air pollution from cars, and coal, gas and oil plants. The energy needs in Europe financed the invasion from Russia in the Ukraine and stifled the Western response to Russia. We are still buying their gas. The Iraq war was all about oil.

The dangers from a meltdown were greatly over estimated – the area around Chernobyl is a wildlife sanctuary, and there was no harm to people from the Three Mile Island accident, or from the Fukushima accident. The harm here was from the great stress due to fear due to the superstitions people have about the nuclear industry.

My children and grandchildren, this planet and all the good people on it need to learn the truth about nuclear – not fear mongering, superstition and propaganda which are very effective because of the lack of education about nuclear.

It is the only reliable energy source that can support electric cars without adding emissions to the environment (solar and wind cannot provide the energy needed for these vehicles).

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It is the only source that needs so little raw material (uranium) that is plentiful in this country.

The waste from this energy can to a vast degree, be recycled right back into the industry. The rest can be safely contained.

The NSDF is an elegant solution to a waste problem, that is a step in the right direction for a much needed industry.

We have the technology, we have the need.

Stop killing people with the dependency on oil and gas and coal. Stop polluting this planet.

We have a solution – nuclear. It has been used successfully in this country for over 50 years – with no harm to the public – in fact great benefit given the medical isotopes that were produced in Chalk River (over a billion diagnostic or therapeutic procedures). Ontario has 1/10 the green house gas emissions per kilowatt hour, at 1/3 the cost as Germany does. Ontario gets 50 - 60% of its energy from nuclear. Germany has opted for Russian gas and oil, and solar and wind energy.

The choice is green, the choice is smart, the choice is safe and available. Choose nuclear, and build the NSDF.

Annette Chaplin