

CMD 22-H7.119A

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## **Supplementary Information**

Presentation from Duncan Noble

## **Renseignements supplémentaires**

Présentation de Duncan Noble

In the Matter of the

### À l'égard des

Canadian Nuclear Laboratories (CNL)

Application from the CNL to amend its Chalk River Laboratories site licence to authorize the construction of a near surface disposal facility Laboratoires Nucléaires Canadiens (LNC)

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 30 to June 3, 2022

30 mai au 3 juin 2022



CNL Near Surface Disposal Facility: Presentation to the Canadian Nuclear Safety Commission

> Duncan Noble June 2022 CMD 22-H7.119

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# Introduction

- Engineering Physics grad, MBA, worked in climate change consulting for > 20 years
- Summer student at CRNL in 1980
- Engineer at AECL Mississauga 1981-1983
- I recognize the benefits the nuclear industry has brought to our society e.g.,
  - Radiation treatments for cancer and other diseases, and
  - Supporting the phase out of fossil fuels like the coal phase out in Ontario
- Like all professional engineers, I am obliged to "regard the practitioner's duty to public welfare as paramount" (PEO Code of Ethics, section 77 of the Professional Engineers Act, R.S.O. 1990, c. P.28)
- This obligation applies to me. It also applies to any professional engineers involved in the design, review, and assessment of the proposed Near Surface Disposal Facility

# Lack of Genuine Consultation with Indigenous Peoples

Meaningful engagement with Indigenous peoples aims to secure their free, prior, and informed consent when Canada proposes to take actions which impact them and their rights on their lands, territories, and resources.



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June 2022

# **Conflicts of Interest**

- 2017 Expert Panel review recommended CNSC not be in charge of Environmental Assessment for nuclear projects
- Expert Panel also noted that CNSC is widely perceived to be a captured regulator
- High potential for real and/or perceived conflicts of interest

EXPERT PANEL COM Review of Environmental Exa Assessment Processes d'év

COMITÉ D'EXPERTS Examen des processus d'évaluation environnementale



## **BUILDING COMMON GROUND** A New Vision for Impact Assessment in Canada

The Final Report of the Expert Panel for the Review of Environmental Assessment Processes

## Timing: Modernizing Canada's Radioactive Waste Policy

## Next steps: Canada's Radioactive Waste Policy Review

### 2020 - 2022 timeline



#### November 2020

Virtual Engagement Hub was launched

November 2020 - May 31, 2021

Engagement Phase

### Winter 2021/2022

Release of the draft policy for comments and What We Heard: Modernizing Canada's Policy for Radioactive Waste Management and Decommissioning

### 2022

Modernized Policy release

CNL NSDF: Noble Presentation to CNSC CMD22-H7.119

June 2022

## **Changing Stakeholder Expectations**



CNL NSDF: Noble Presentation to CNSC CMD22-H7.119

June 2022

# Inappropriate Site

- The proposed site is partly surrounded by wetlands and the underlying bedrock is porous and fractured
- The proposed site for the NSDF is less than one kilometre from the Ottawa River, a drinking water source for millions of Canadians
- Downstream communities that rely on the Ottawa River include Ottawa-Gatineau and Montreal
- The site is tornado and earthquake prone; the Ottawa River itself is a major fault line

# Not a World-Class Design

- There are several deficiencies in the proposed design that have been highlighted by independent reviews. These include, but are not limited to:
  - The International Atomic Energy Agency says that only Very Low Level Radioactive Waste (VLLW) can be put in an above-ground landfill-type facility
  - The International Atomic Energy Agency says radioactive wastes must be carefully stored out of the biosphere, not in an above-ground mound
  - The International Atomic Energy Agency says high-activity cobalt-60 is "intermediatelevel waste" and must be stored underground
- If the nuclear industry wants to position itself as a responsible climate solution, it needs to demonstrate responsible stewardship across the entire supply chain, a world-class engagement/consultation process, and a world-class design

# Recommendations

- Do Not Authorize the Proposed NSDF Construction
- Modernize Radioactive Waste Policy First
  - Modernized Policy to be Released in 2022
  - Governance Should Precede and Govern Operations
- Restart the Engagement and Consultation Process
- Develop a Better Design
  - Meet the concerns of Indigenous Peoples and Other Stakeholders
  - Goal: Be Recognized by Experts as a World-Class Design