



## **Supplementary Information**

### **Presentation from Bill Noll**

In the Matter of the

#### **Ontario Power Generation Inc.**

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Applicability of the Darlington New Nuclear Project environmental assessment and plant parameter envelope to selected reactor technology

#### **Commission Public Hearing**

**January 2024**

## **Renseignements supplémentaires**

### **Présentation de Bill Noll**

À l'égard d'

#### **Ontario Power Generation Inc.**

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Applicabilité de l'évaluation environnementale et de l'enveloppe des paramètres de la centrale à la technologie de réacteur sélectionnée pour le projet de nouvelle centrale nucléaire de Darlington

#### **Audience publique de la Commission**

**Janvier 2024**

# PROTECT OUR WATERWAYS – No Nuclear Waste

INTERVENTION IN THE PUBLIC HEARING  
DARLINGTON NEW NUCLEAR PROJECT

JANUARY 2024

W.J. NOLL

PROTECT OUR WATERWAYS - No Nuclear Waste (POW) is dedicated to protecting the residents and businesses of South Bruce from the NWMO's plan to impose a landfill site for all of Canada's of high-level nuclear waste on our community.



# Major Concerns and Product Differences from previous Reactor Designs in Canada

- Fuel and Fuel Rod assembly
- Boiling Point Reactor not operational anywhere
- Placing part of the Reactor below ground
- Novel Safety approach to protect reactor from a melt down



# Reasons for an Environmental Assessment of Darlington SMR implementation

- BWRX 300 SMR design significantly different than previous technology deployed in Canada.
- Canada to be First with an operational BWRX SMR in 2028/9
- NRCan (Canada) committing to tripling of Nuclear Power generation prior to 2050 including numerous SMR deployments.
- SMR deployments planned for locations where nuclear experience is low
- Climate targets promised by Federal Government requires all solutions to be free of schedule delays and cost overruns.



# Open Issues regarding Final Placement of BWRX Used Spent Fuel in a Deep Geological Repository (DGR)

- Requires new container design for fuel bundles to be placed in a DGR
- Repacking facility at DGR site is design for Candu fuel operation.
- Physical placement details within the DGR cavities
- Transportation Container design and actual transport of spent fuel waste.

In summary, POW agreeS with statement in SON's submission that there are many questions regarding the management of the spent fuel waste that have not been answered by the NWMO and no design detail information is available.

**No one is informed sufficiently to make an intelligent decision regarding the impact of the Darlington plans**



# Recommendation: Conduct and Environmental Assessment

- This provides an opportunity to educate all parties about the technology
- It helps future implementations proceed without problems
- Canada cannot afford to incur delays because of technology issues and still and met the published targets for a climate solution
- It provides the NWMO an opportunity to inform Indigenous people, residents of potential DGR site, and others their design plans for managing the spent fuel waste of the BWRX reactor
- Thanks for listening.

