



# *Introduction to the CNSC and Its Licensing Review Process for DNNP*

April 4, 2023



# Presentation Objective

**To provide an overview of the Canadian Nuclear Safety Commission and the review of Ontario Power Generation (OPG)'s Darlington New Nuclear Project (DNNP) licence application**

- Answer questions about:
  - Who is the CNSC and what does the CNSC do?
  - What is the licensing review process?
  - How are Indigenous Nations and communities, stakeholders and the public involved?

# CNSC Overview





# Canadian Nuclear Safety Commission (1/2)



Canada's Nuclear Regulator for Over 75 Years



# Canadian Nuclear Safety Commission (2/2)

## *Regulates all Nuclear-Related Activities in Canada*



Uranium mines  
and mills



Uranium fuel  
fabrication and  
processing



Nuclear power  
plants



Nuclear substance  
processing



Industrial and  
medical applications



Nuclear research  
and educational  
activities



Transportation of  
nuclear substances



Nuclear security  
and safeguards



Import and  
export controls



Waste management  
facilities



# The Commission Tribunal



Ms. Rumina  
Velshi



Dr. Timothy  
Berube



Mr. Randall  
Kahgee



Dr. Marcel  
Lacroix



Dr. Victoria  
Remenda

- Quasi-judicial administrative tribunal
- Agent of the Crown (Duty to Consult)
- Reports to Parliament through Minister of Natural Resources
- Considers the public and Indigenous communities' concerns and knowledge in decisions
- Commission members are independent and part-time
- Commission proceedings are public and Webcast
- Staff presentations are made available to the public
- Decisions are reviewable by Federal Court

**Transparent, Evidence-Based Decision Making**



# CNSC Offices

- ✓ HQ in Ottawa
- ✓ 4 site offices at power reactors
- ✓ 1 site office in Chalk River
- ✓ 4 regional offices





# Regulator and Licensee Responsibilities

## *Regulator (CNSC)*

- Set safety requirements, inform licensees, verify compliance
- Assure Parliament and Canadians that licensee responsibilities are properly discharged
- Make **independent, objective** and **risk informed decisions**

## *Licensee (e.g., Ontario Power Generation)*

- Responsible **for safety**
- Manage regulated activities in a manner that protects the **health, safety, security** and the **environment** while respecting Canada's **international obligations**

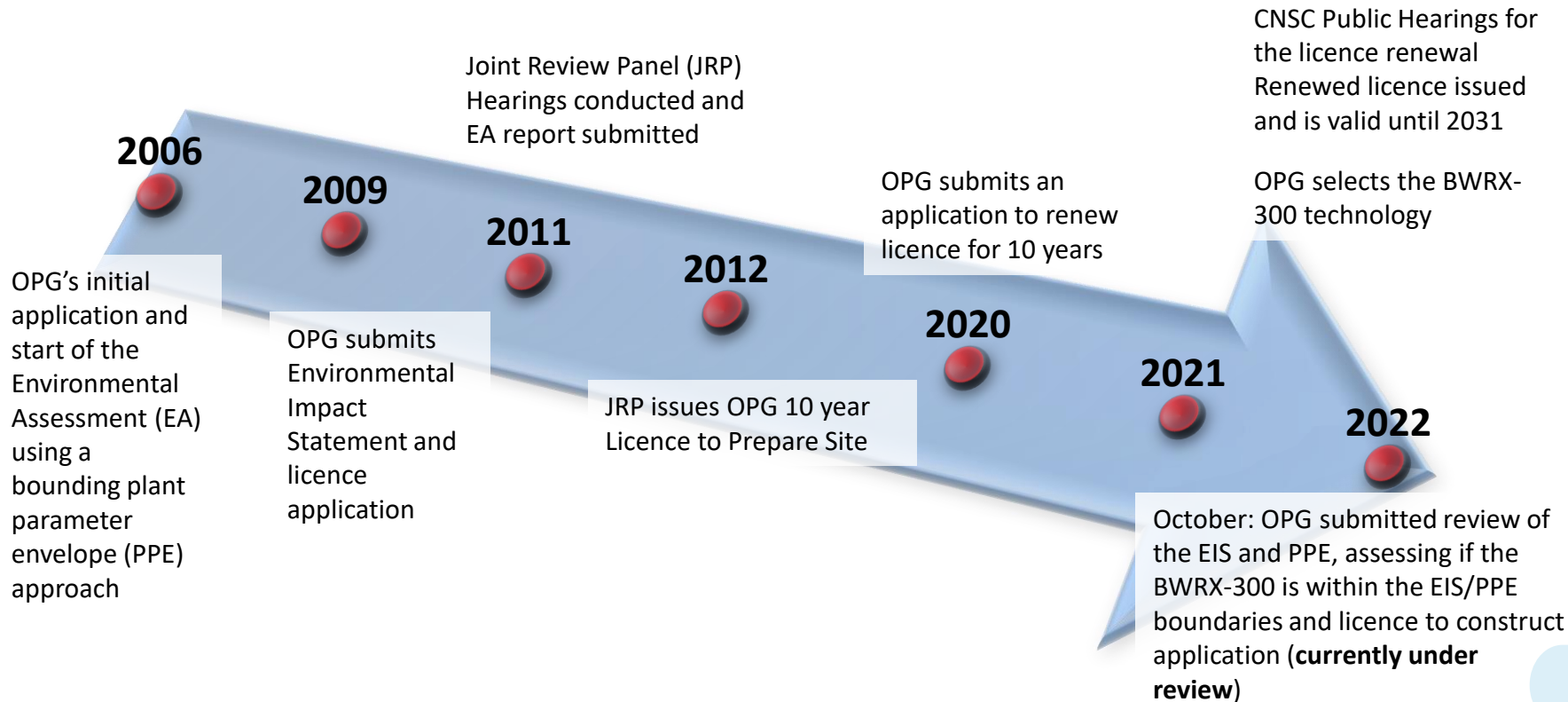


# DNNP Regulatory Review Update



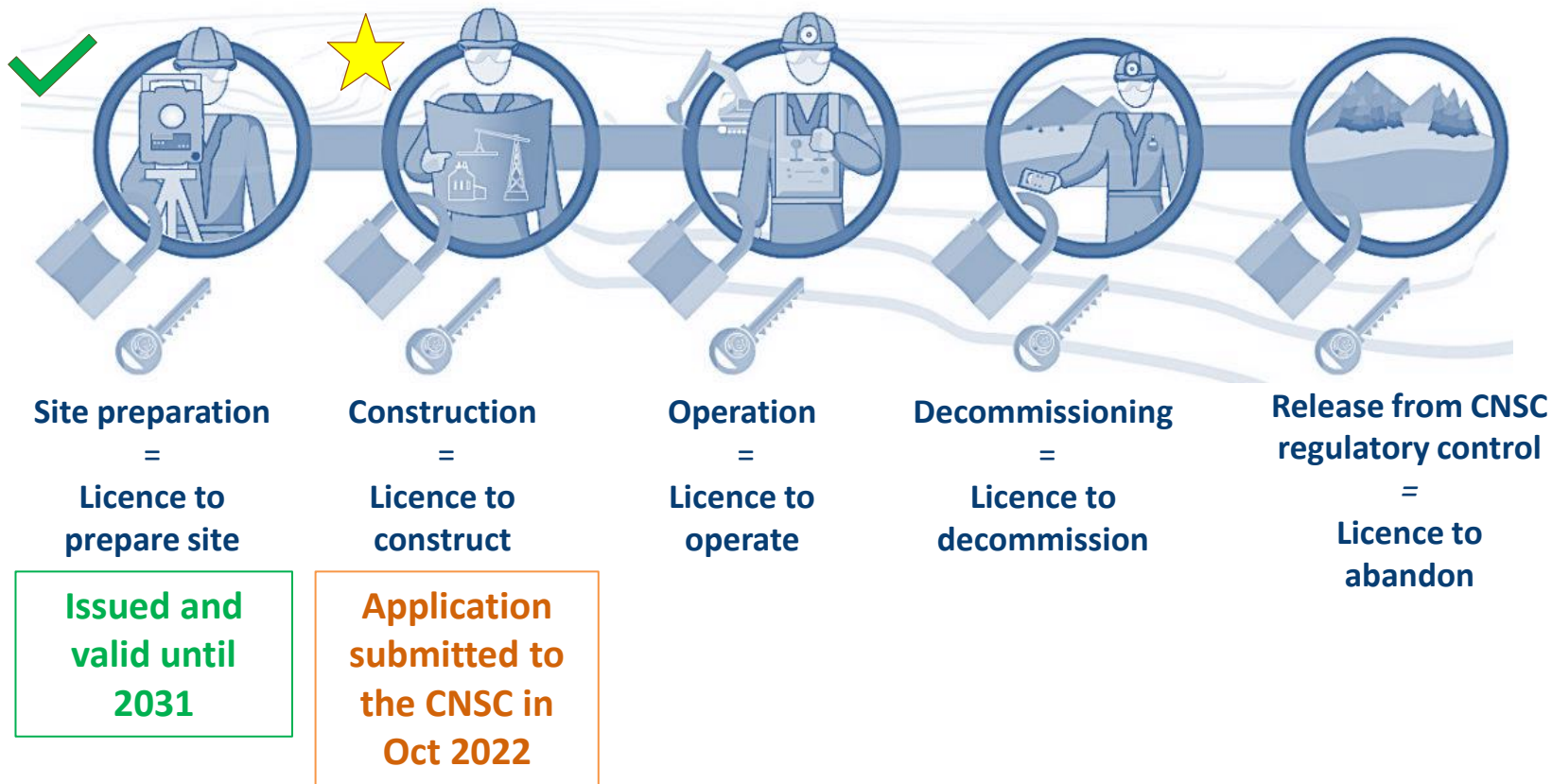


# DNNP Timeline





# Nuclear Facility Lifecycle Stages





# DNNP Licensing Status

## Current Step

- CNSC staff conducting technical assessment of OPG's application for a licence to construct a single BWRX-300 reactor
- Technical assessment of OPG's demonstration how BWRX-300 fits within the bounds of the 2009 Environmental Assessment

## Next Steps

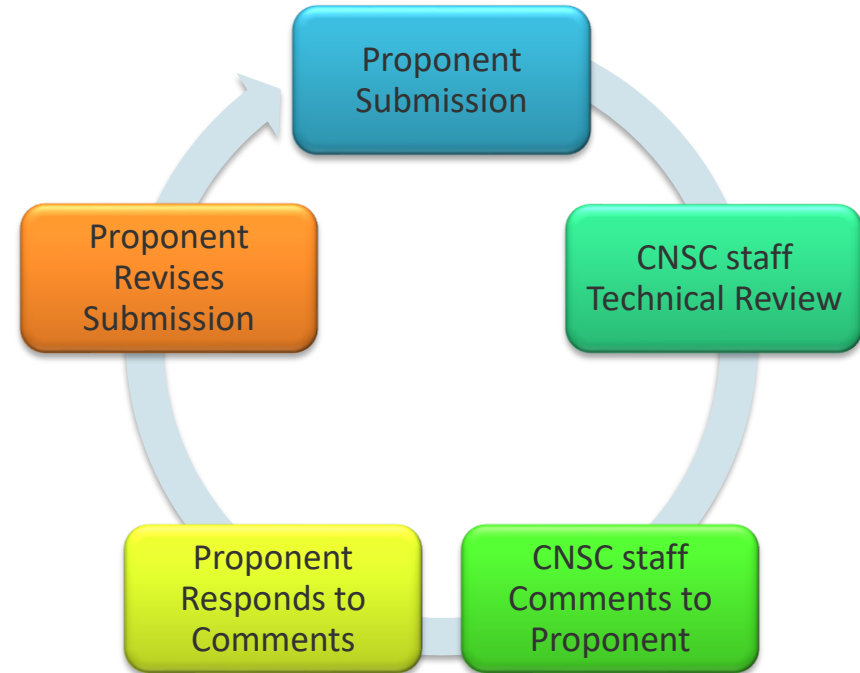
- Commission Hearings will commence in 2024
  - First Hearing: Environmental Impact Statement and Plant Parameter Envelope (January 2024)
  - Second Hearing: CNSC staff Review of OPG's LTC Application (October 2024)
- Produce a Commission Member Document (CMD) with the results of the regulatory review and recommendations.



# Licensing Technical Review

## What happens to OPG's submission?

- The submission is subject to a technical review.
- Assessed against regulations, JRP recommendations, regulatory documents, international guidance, codes and standards, professional judgement.
- Topics include safety analysis, radiation protection programs, detailed decommissioning plan, operator training programs, etc.



Process continues until staff are satisfied all requirements are met



# Review of LTC Application (1/2)

**OPG's submission will be assessed against....**

***Key regulations:***

- [\*General Nuclear Safety and Control Regulations\*](#)
- [\*Class I Nuclear Facility Regulations\*](#)

***Licence application to address (some key CNSC REGDOCS):***

- REGDOC-1.1.2, *Licence Application Guide: Licence to Construct a NPP*
- REGDOC-2.5.2, *Design of Reactor Facilities: Nuclear Power Plants*
- REGDOC-2.3.1, *Conduct of Licensed Activities: Construction and Commissioning Program*

Full list of REGDOCS: [Regulatory documents - Canadian Nuclear Safety Commission \(cnsccsn.gc.ca\)](http://www.cnsccsn.gc.ca/regulatory-documents)



# Review of LTC Application (2/2)

The Commission will only issue a licence when the applicant:

- ✓ Is deemed **qualified** to carry on the activity that the licence will authorize.
- ✓ Has demonstrated that they will **protect the health and safety of persons and the environment.**
- ✓ Has demonstrated that they will maintain **national security.**
- ✓ Has confirmed that they will **adhere to international obligations** to which Canada has agreed.

# Consultation and Engagement with Indigenous Nations and Communities and the Public







# Open and Transparent Regulator

CNSC approach: Staff's technical review process

- Regular and consistent status updates (project bulletins, social media and web updates).
- Topical discussions with two-way dialogue (one-on-one sessions, public events).
- Contextualizing the project (video and/or written FAQs).

Responsible for meeting the Crown's duty to consult with Indigenous peoples.





# Open Government Portal

Information is proactively shared on the [Open Government portal](#) and includes hyperlinks to informative posts or websites, documents, document titles and reports which are of importance to OPG's Darlington New Nuclear Project.

The screenshot shows the top navigation bar of the Open Government Portal. It includes the Government of Canada logo and name in both English and French, a search bar with the text 'Search Canada.ca', and a 'MENU' dropdown. Below the navigation bar, the main heading 'Open Government' is followed by a brief description: 'Open Government is about making government more accessible to everyone. Participate in conversations, find data and digital records, and learn about open government.' To the right of this text are social media icons for Twitter, RSS, and Facebook. Below the description, there are three main sections: 'Search data and information' with a search input field and a 'Find' button; 'Proactive disclosure' with a brief description; 'Access to information' with a brief description; and a 'Coronavirus disease (COVID-19)' section featuring a graphic of COVID-19 particles and the text 'COVID-19' with a link to 'Explore open government resources'.



# Opportunities for Participation

- DNNP and SMR Webinars were held in 2022
- DNNP Webinars to be held Summer 2023 and Spring 2024
- Multi-stage Participant Funding Program (PFP)
  - Stage 1 PFP for review of OPG EIS and PPE documents
  - Stage 2 PFP will be for the involvement in the Hearing process for staff's review of the EIS and PPE (to be announced with Notice of Hearing)
  - Stage 3 PFP will be for the involvement in the Hearing process for staff's review of OPG's Licence to Construct application
- Participate in Commission Hearings





# Opportunities for Participation

## View Project Information

- [Open Government portal](#)

## Apply for the [Participant Funding Program](#)

## Contact Us

- General inquiries: [cnscccsn@nrc.gc.ca](mailto:cnscccsn@nrc.gc.ca).
- Project-specific questions: [dnp-npnd@nrc.gc.ca](mailto:dnp-npnd@nrc.gc.ca).
- Important news and notifications: [subscribers list](#).

## Attend a Public Hearing [Participate in a public commission hearing](#).

- Hearing 1: Week of January 24, 2024
- Hearing 2: Week of October 2, 2024





# Stay Connected

Canada Canadian Nuclear Safety Commission – Commission canadienne de la sûreté nucléaire 22,451 followers  
Simo • Edited •

Join us on November 15 for a webinar on the licensing review for Ontario Power Generation's (OPG) proposed Darlington New Nuclear Project.

OPG currently holds a site preparation licence for the project and intends to submit a licence to construct application in October 2022.

The purpose of the webinar is to:

- Familiarize the public with the project and its activities
- Discuss our licensing process and OPG's licence application
- Provide information on participant funding to review reports for the project
- Answer questions about the project and the regulatory process

Register now at <http://ow.ly/6L7150LeA6z>

Le 22 novembre, assistez au webinaire sur l'examen de la demande de permis d'Ontario Power Generation (OPG) pour son projet de nouvelle centrale nucléaire de Darlington.

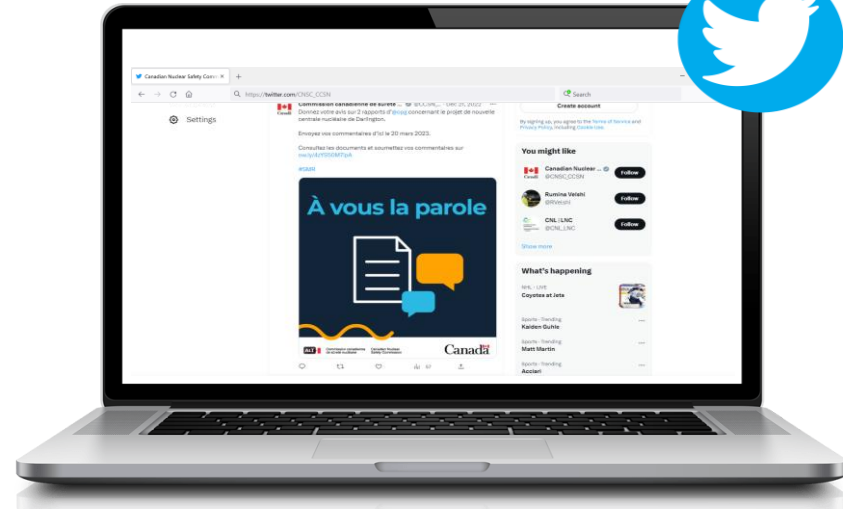
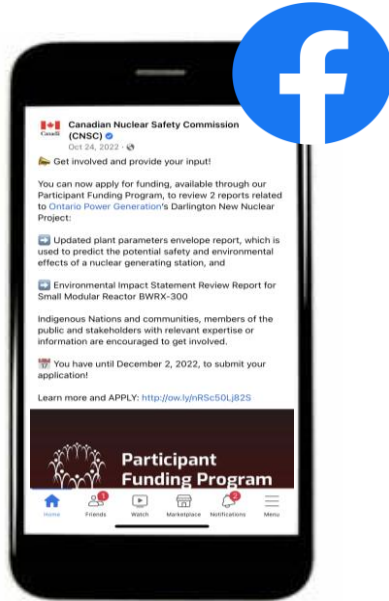
OPG détient actuellement un permis de préparation de l'emplacement pour le projet et a l'intention de présenter une demande de permis de construction en octobre 2022.

Ce webinaire vise à:

- Renseigner le public sur le projet et les activités connexes
- Discuter de notre processus d'autorisation et de la demande de permis d'OPG
- Fournir des renseignements sur l'aide financière offerte aux participants pour les aider à examiner les rapports pour le projet
- Répondre aux questions au sujet du projet et du processus de réglementation

Inscrivez-vous dès maintenant sur <http://ow.ly/86lP50LeA6y>

See translation





# Connect With Us

Join the conversation



[nuclearsafety.gc.ca](https://nuclearsafety.gc.ca)



1-800-668-5284

General inquiries: [cnscccsn@nsc-ccsn.gc.ca](mailto:cnscccsn@nsc-ccsn.gc.ca)

Project specific inquiries: [dnp-npnd@nsc-ccsn.gc.ca](mailto:dnp-npnd@nsc-ccsn.gc.ca)