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Supplementary Information

Exposé oral **Oral Presentation**

Presentation from Ontario Power Generation

Generation

Présentation d'Ontario Power

Renseignements supplémentaires

In the Matter of the

À l'égard du

Mid-Term Report on Results of Compliance Activities and Performance of Ontario Power Generation's Darlington New Nuclear Project

Rapport de mi-parcours sur les résultats des activités de conformité et le rendement du nouveau projet nucléaire de Darlington d'Ontario Power Generation

Commission Meeting

Réunion de la Commission

December 13, 2018

Le 13 décembre 2018





Darlington New Nuclear Project

Mid-Term Review of Site Preparation Licence

Canadian Nuclear Safety Commission Meeting December 13th, 2018



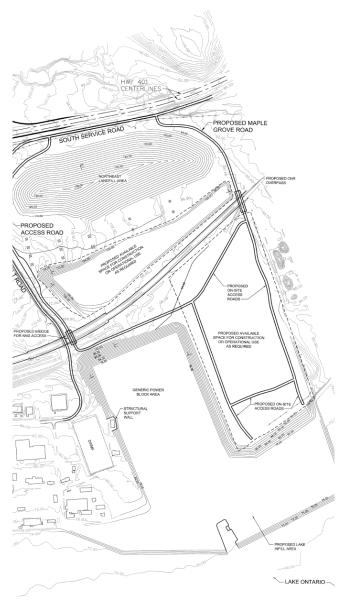


Table of Contents

- Project Overview and Status
 - Project Site
 - Summary of Progress
- Progress on Commitments
 - Commitment Tracking
 - Update on Commitments
- Infrastructure
- Indigenous and Stakeholder Relations
- Ongoing Activities
- Conclusion



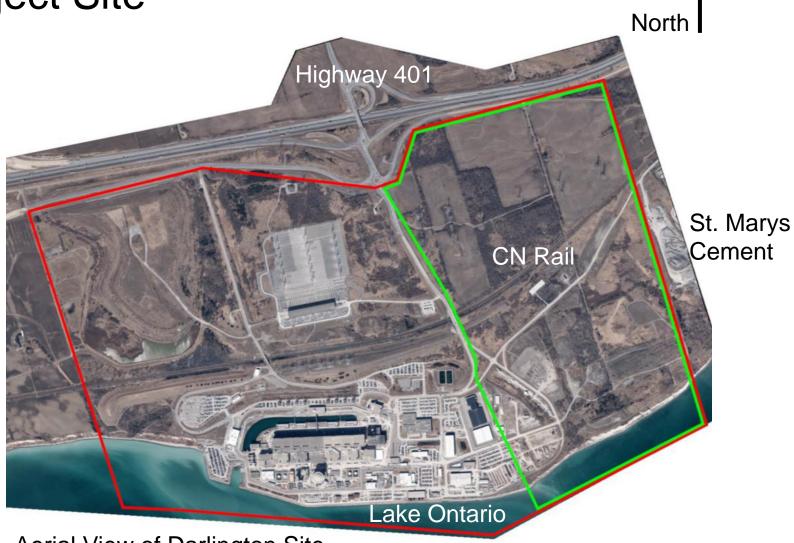


Project Overview and Status

- Located in Clarington approximately 70 km east of Toronto
- Granted a site preparation licence for:
 - Up to four nuclear power reactors
 - Overall output of 4800 MWe (maximum)
- Licence is valid for 10 years
- Based on bounding technology-neutral Environmental Assessment
- 2013 Government of Ontario:
 - Deferred Darlington New Nuclear Project (DNNP)
 - Paused Infrastructure Ontario-led technology selection process
 - Requested OPG maintain site preparation licence



Project Site



Aerial View of Darlington Site

Darlington Nuclear Site Boundary

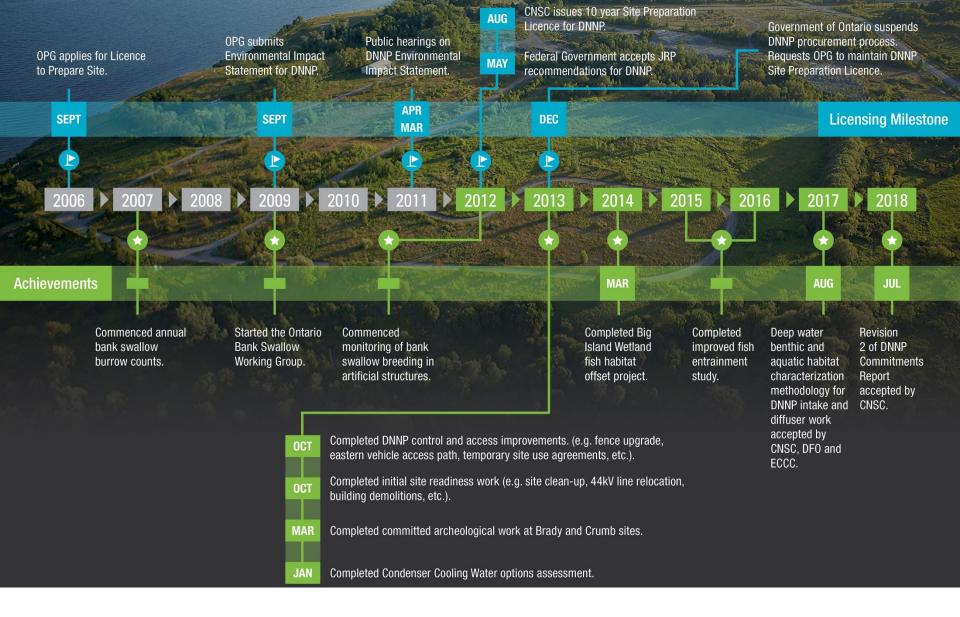
Darlington New Nuclear Project Boundary



Summary of Progress Over Past Five Years

- Since 2012, focused on responsible control and ongoing maintenance of DNNP site:
 - Developed Commitments Report consolidating all OPG commitments and Joint Review Panel (JRP) recommendations
 - Submitted six annual progress reports to CNSC
 - Completed and advanced a number of key long-lead commitments
 - Monitored and provided input on land use policies





Progress on Commitments





Commitment Tracking

OPG is committed to the completion of the mitigation measures and commitments made throughout the Environmental Assessment and Licensing process, including the JRP's recommendations as accepted by the Government of Canada.

- DNNP Commitments Report:
 - Consolidates OPG's commitments and JRP's recommendations
 - Accepted by CNSC
 - A "living document"
 - Current version posted at <u>www.opg.com</u>



Update on Commitments

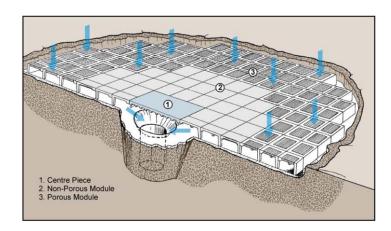
Archeological Excavation (completed)

- Archeological locations were excavated, documented and artifacts recovered and protected for long-term study
- Documentation transmitted to Ontario Ministry of Tourism, Culture and Sport and CNSC



Condenser Cooling Water Options Assessment (completed)

- Options assessment completed
- Once-through cooling identified as preferred option
- Report was submitted to CNSC





Update on Commitments

Bank Swallow Mitigation Measures

- Annual Bank Swallow burrow counts since 2007
- Coordinated and participated in the Ontario Bank Swallow Working Group
- Two artificial nesting structures tested
- New structure being investigated based on successful international experience

Environmental Monitoring

- Site is well characterized through existing programs such as the annual biodiversity program
- Several studies completed to monitor surface water, sediment quality, and the aquatic environment







Update on Commitments

Fish Habitat

- Developed Big Island Wetland Project as a fish habitat offset measure to address impingement and entrainment at Darlington and Pickering stations
- Also intend to be used as offset measure for DNNP



Round Whitefish Action Plan

- Studies commissioned to better understand Round Whitefish population
- Overall impact of DNNP on Round Whitefish should be less than predicted in Environmental Assessment
- Continue to monitor scientific advances in thermal impacts on Round Whitefish

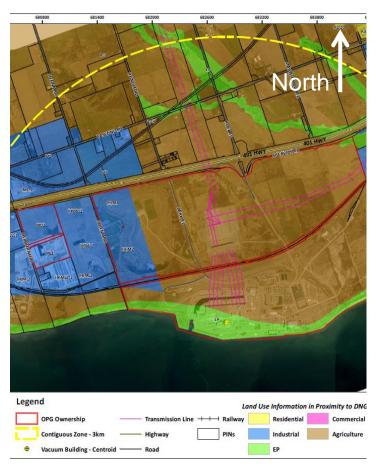






Land Use Management

- OPG monitors development applications submitted within 10 km of Darlington site
- No development applications proposing sensitive land uses within 3 km of site
- Continue to engage with provincial, regional and municipal representatives regarding sensitive land uses







Fukushima Findings

- OPG is internationally recognized as a leader in our response to Fukushima
- Current OPG policies and procedures reflect lessons learned from Fukushima
- Any future new nuclear construction would adhere to new level of enhanced safety measures







Infrastructure

- Completed access control improvements:
 - fencing upgrade, eastern vehicle access path, monitoring uses of the site
- Completed initial readiness projects including:
 - construction debris clean-up, 44 kV line relocation, building demolitions
- Key supporting infrastructure projects advancing:
 - Holt Road / Highway 401 interchange upgrade is complete
 - 407 East construction made significant progress during this period







Indigenous and Stakeholder Relations





Indigenous Relations

- Continued engagement with interested Indigenous Communities
- Mid-term report shared with the Mississauga Anishnawbeg, Mohawks of the Bay of Quinte and Metis Nation of Ontario Region 8







Stakeholder Relations

- Continued communications with local community and stakeholders about DNNP
- As part of ongoing existing communications program, provide presentations, tours and information on station operations, current and future projects including DNNP







Ongoing Activities

- Continue to maintain the DNNP site in accordance with licence requirements
- Continue to increase the readiness level of the DNNP site for project activities
- Continue activities for renewal of Site Preparation Licence
- Continue to keep CNSC informed of activities occurring on DNNP site







Conclusion

- Long history of safe nuclear operations and successful project management
- Highly skilled staff with extensive experience and expertise
- Remain confident in the conclusions of the DNNP EA: the project will result in no significant adverse environmental effects given mitigation
- Commitment to continue maintaining the site preparation licence:
 - Responsibly managing DNNP site
 - Meeting licence requirements and progressing commitments
- OPG is ready to further advance project activities upon direction from OPG shareholder

