

# Darlington New Nuclear Project

## Environmental Management and Protection Plan Dust & Noise Management

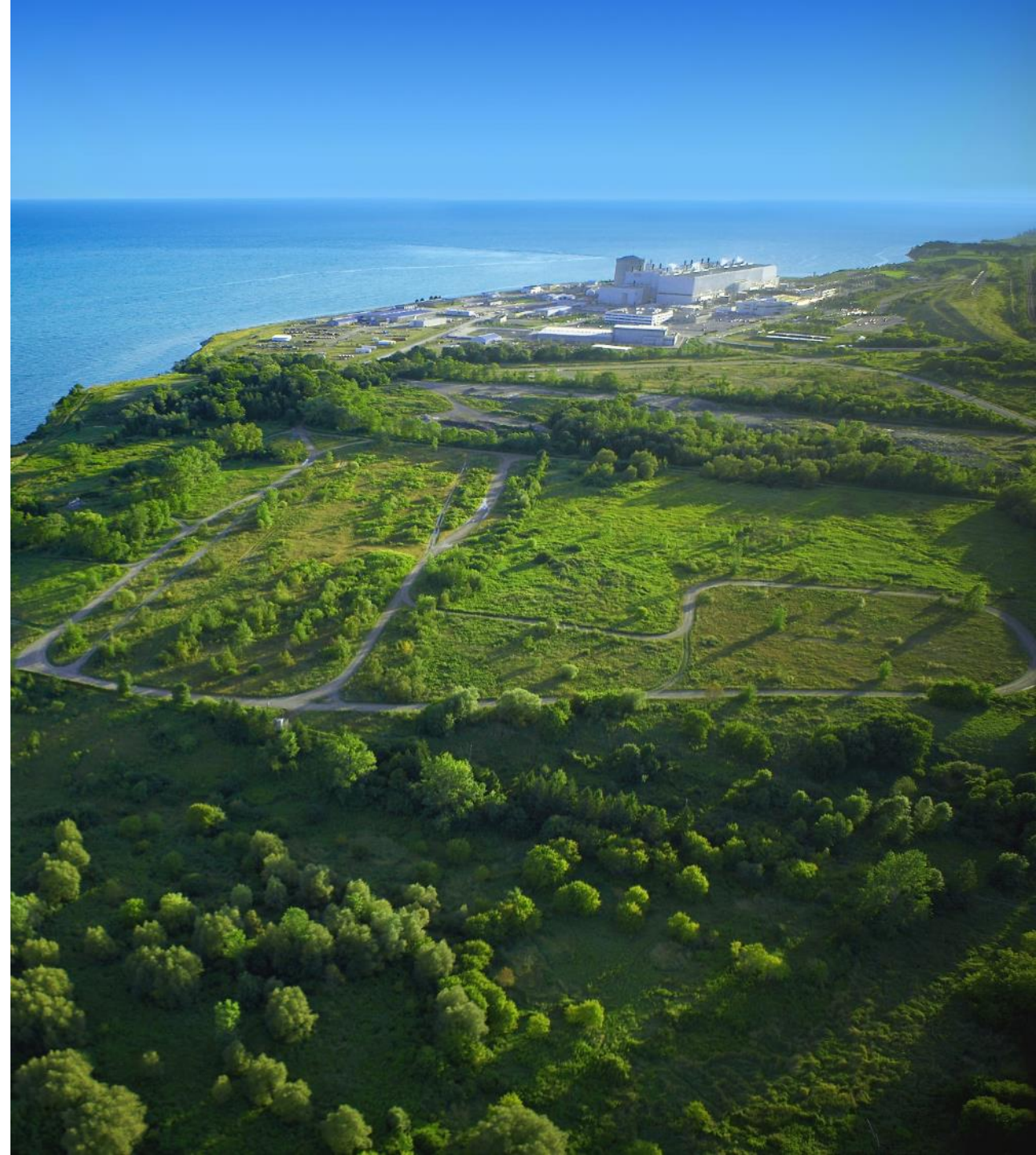
Ontario Power Generation | October 19, 2021

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# Purpose

- Share dust and noise management plans for DNNP site preparation activities
- Obtain your insights, comments or suggestions that you may have



# Agenda

- Environmental Management and Protection Plan [EMPP]
- Dust Management
- Noise Management
- Discussion



# Environmental Management & Protection Plan for DNNP Site Preparation

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- Environmental Management and Protection Plan (EMPP) is an important guidance document to measure and achieve compliance with the environmental protection and mitigation requirements of a project
- Serves as an integration document between specific undertaking activities and their respective approvals, authorizations and permits
- OPG has developed an EMPP for DNNP site preparation activities to address specific areas that site preparation activities may introduce, such as:
  - 1. Dust and Noise**
  2. Erosion and Sediment
  3. Smog Alert Action plan
  4. Spill prevention and response
  5. Soil and hazardous waste management
  6. Water management
  7. Terrestrial and aquatic species management
  8. Physical & cultural resources

# Dust Management

- Dust can be generated through movement of soils, soil piles, truck traffic, and general construction and soil excavation works.
- Dust may impact human health, freshwater ecosystems and vegetation.

Some mitigation measures:

- Best management practices e.g. MECP [Ministry of Environment, Conservation, and Parks] “Management Approaches for Industrial Fugitive Dust Sources”
- Cover exposed fill / soil piles that may be a source of dust with tarps, soil binders
- Disturbed surfaces of completed earthworks and/or unused bare areas are stabilized with vegetation, stones, geotextile, mulch or other erosion resistant cover as appropriate.
- Records of dust suppression activities are kept and provided to the Contractor Environmental Manager on weekly basis, and to the OPG Construction Manager as requested.

Management of dust in local site area of DNNP (10 km radius) is covered under Traffic Management Plan: “The roads in the LSA are paved, and soil haulage is not envisaged to be required for the Project. Therefore the potential for dust impacts is concluded to be low, and no specific plan is necessary.”

# Noise Management

- Existing noise from DNGS, local road & Highway 401 traffic, CN rail line, St. Mary's Cement plant, sounds of nature [Lake Ontario shoreline wind & wave noise].
- During Site Preparation & Construction, localized increases in noise from soil and rock excavation activities and vehicle operation are expected.
- Noise may disturb nearby residents and cause negative effects on wildlife in the area.

Some mitigation measures:

- Contractor will adhere to all permits, approvals, and standards in Occupational Health and Safety Act & Ontario Model Municipal Noise Control By-law
- All vehicles and generators will have exhaust systems and noise abatement equipment regularly inspected and operating properly.
- Monitoring noise level during site preparation to detect abnormal levels and determine whether further action needs to be taken

Management of dust in local site area of DNNP (10 km radius) is covered under by Traffic Management Plan: "Given the nature of truck and vehicular traffic expected to result from the Project, no effects which would require mitigation are expected."

# Next Steps

- Update dust and noise plans to reflect input received today.
  - Please send additional comments, if any, to [Jesara.Holla@opg.com](mailto:Jesara.Holla@opg.com) by November 2, 2021
- Submit EMPP to CNSC for review
- If required, selected contractors for site preparation may need to prepare in-field dust and noise detailed plans. These plans will be used to support application for Site Plan Approval under the Planning Act to the Municipality of Clarington

# Discussion



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