



Supplementary Information

Renseignements supplémentaires

Oral Presentation

Exposé oral

Presentation from the Organization of Canadian Nuclear Industries (OCNI)

Présentation de Organization of Canadian Nuclear Industries (OCNI)

In the Matter of

À l'égard de

**Ontario Power Generation Inc.,
Pickering Nuclear Generating Station**

**Ontario Power Generation Inc.,
centrale nucléaire de Pickering**

Request for a ten-year renewal of its Nuclear
Power Reactor Operating Licence for the
Pickering Nuclear Generating Station

Demande de renouvellement, pour une période
de dix ans, de son permis d'exploitation d'un
réacteur nucléaire de puissance à la centrale
nucléaire de Pickering

Commission Public Hearing – Part 2

**Audience publique de la Commission –
Partie 2**

June 2018

Juin 2018



Support for Renewal of Pickering NGS Operating Licence for 10 Years

**Presentation to the CNSC Public
Hearing - CMD 18-H6.29
June 27, 2018**

Ron Oberth, President and CEO
Organization of Canadian Nuclear
Industries (OCNI)



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INDUSTRIES

Clean Energy for a Low Carbon Economy

About OCNI

The **Organization of Canadian Nuclear Industries** (OCNI) represents a broad range of Canadian nuclear suppliers – majority of members are SME's

240 members with **15,000** highly skilled people increasing to 20,000 when Ontario refurbishment projects are underway



CONNECTION

linkages between suppliers and utilities .



READINESS

Increase supplier skills



GLOBAL REACH

Develop international opportunities



ADVOCACY

Government and public support



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Quality of Plant Components

- Component/Service suppliers must demonstrate nuclear quality programs: ISO-9001
- 55 OCNI companies participated in CSA/utility-led workshops March/April 2018 on the new N299.x series of graded standards on “Quality Assurance Program Requirements for the Supply of Items and Services for Nuclear Power Plants”
- Regular Supplier Audits: NUPIC and CANPAC
- Rigorous defence against counterfeit items :
CMD 14-M3 CNSC Staff Presentation on CFSI

Quality of Operations and Maintenance - Safety and Continuous Improvement

- Pickering NGS A and B received its highest achievable safety performance rating from the CNSC in 2015/16:
 - operational performance
 - safety
 - reliability
 - human performance
- OPG investing \$290 M on continued operations at Pickering:
 - modifications to modernize plant components essential to plant reliability and safety.
 - increased inspection and maintenance of key reactor components especially the fuel channels.

Pickering Improved Operations

- 2017 results:
 - All Injury Rate: zero until September and 0.06 injuries /200,000 hrs worked for year - in line with industry best.
 - exceeded generation target by completing two outages ahead of schedule.
 - reduced maintenance backlog to below target.
 - two units achieved record runs between schedule outages.

X-Lab: Innovations to Improve Performance

- Exploring how to implement new technologies to improve plant performance and efficiency:
 - AI/Machine Learning
 - Data Analytics
 - Blockchain Technology
 - Smart Electronic Procedures
 - Virtual Reality/Augmented Reality training
 - 3D Printing / Additive Manufacturing for parts replacement

- Attracting bright young minds to the nuclear sector – industry leaders of tomorrow

Community Engagement

- OPG-Pickering maintains open, transparent, and regular communications with its host communities:
 - regular newsletters
 - Pickering staff participate in community events and support community charities
 - OCNi office and staff are part of the community



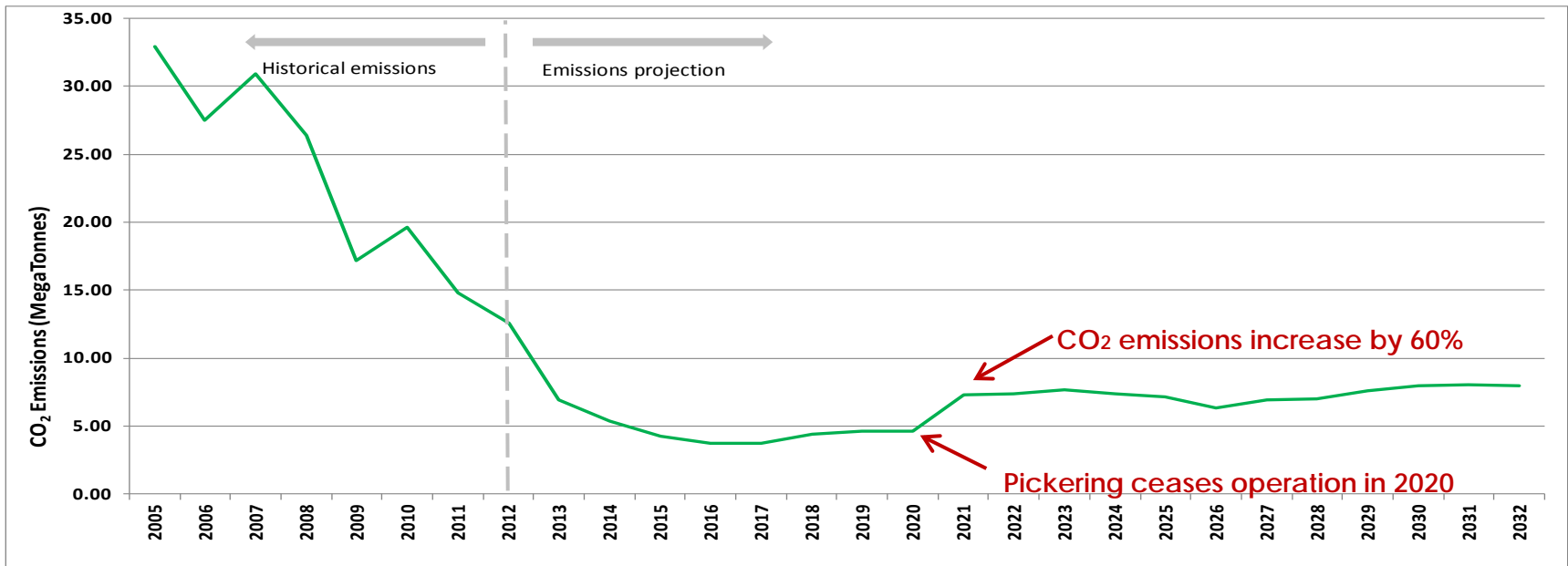
Environmental Protection

- Pickering Nuclear is committed to protecting the local environment in which the families of Pickering employees live and work.



Climate Change Mitigation

- Operation of Pickering NGS to 2022/24 will reduce GHG emissions by 17 MT (vs gas-fired generation)



Ref: LTEP 2013

Local Economic Development

- Pickering is the largest employer in Durham Region:
 - 4500 full-time staff:
 - engineering
 - operations
 - skilled trades
- Pickering contributes \$1.54 B/a to Ontario's GDP (OCC)
- \$1.3 B/a flows to the local community



Emergency Preparedness

- OPG, working with Durham Region, Toronto, and Ontario, distributed KI pills to residents with a 10 km radius of Pickering GS in 2015
- OPG distributed safety kits to residents in the 10 km zone in 2013 and 2017
- OPG and more than 30 partners participated in a large-scale emergency preparedness exercise in December 2017
 - community stakeholders invited to observe the exercise and provide feedback.
- Ontario updated its Provincial Nuclear Emergency Response Plan (PNERP) Master Plan in December 2017
 - Including a stronger nuclear plan to better protect public safety

Indigenous Relations - Inclusion

- Pickering engages with the Williams Treaties First Nations, the Mohawks of the Bay of Quinte, and the Metis Nation of Ontario
 - ongoing meetings on environmental performance
 - career fair participation
 - participation in Indigenous community events.
- Relationships built on respect for the culture, customs, and rights of Indigenous peoples.
- OPG launched supply chain initiative in June 2017 to engage Indigenous businesses:
 - joint venture partners
 - sub-contractors



OCNI's Indigenous Engagement Initiative

- Led by **Mike Ruysseveldt**
 - worked with OPG, Areva, Promation
 - member of Six Nations of the Grand River
- **Mandate:** “develop programs in collaboration with OPG/Bruce Power that encourage and support Indigenous youth to seek education and training leading to careers in the nuclear supply chain”
 - Supported by \$500,000 grant from MAESD
 - Target of 10-20 Indigenous placements within the supply chain by March 31, 2019



OCNI strongly supports the Renewal of Pickering NGS Operating License for 10 years

- OPG is a world-class nuclear operator with an excellent safety and environmental record
- OPG continues to invest in maintaining/upgrading plant systems at Pickering
- Ontario needs clean power from Pickering to maintain low GHG emissions during Darlington and Bruce refurbishments
- Pickering NGS is a key part of the local community
- Pickering NGS works closely with Indigenous peoples



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