Supplementary Information

Oral Presentation

Presentation from the Organization of Canadian Nuclear Industries (OCNI)

In the Matter of

Ontario Power Generation Inc., Pickering Nuclear Generating Station

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

Commission Public Hearing – Part 2

June 2018

Renseignements supplémentaires

Exposé oral

Présentation de l’Organization of Canadian Nuclear Industries (OCNI)

À l’égard de

Ontario Power Generation Inc., centrale nucléaire de Pickering

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

Audience publique de la Commission – Partie 2

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)
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
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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ORGANIZATION OF CANADIAN NUCLEAR INDUSTRIES

Clean Energy for a Low Carbon Economy