



## **Supplementary Information**

### **Presentation from the Society of United Professionals**

In the Matter of

#### **Bruce Power Inc. – Bruce A and B Nuclear Generating Station**

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Request for a ten-year renewal of its Nuclear Power Reactor Operating Licence for the Bruce A and B Nuclear Generating Station

**Commission Public Hearing – Part 2**

**May 28-31, 2018**

## **Renseignements supplémentaires**

### **Présentation de la Society of United Professionals**

À l'égard de

#### **Bruce Power Inc. - Centrale nucléaire de Bruce A et Bruce B**

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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 Bruce A et Bruce B

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

**28-31 mai 2018**





SOCIETY *of*  
UNITED PROFESSIONALS  
IFPTE 160

SUBMISSION TO THE  
CANADIAN NUCLEAR SAFETY COMMISSION

FOR BRUCE POWER INC.,  
OPERATING LICENSE RENEWAL  
FOR BRUCE A & B NUCLEAR POWER STATIONS

# PRESENTATION OVERVIEW

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- Opening Remarks
- We will be commenting in the areas of:
  - Nuclear Safety
  - Labour Relations
  - Emergency Preparedness
  - Conventional and Radiological Safety
  - Environmental Protection
  - Employee Involvement and Engagement
  - Diversity and Inclusion
- Summary and Conclusion

# THE SOCIETY OF UNITED PROFESSIONALS

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- Changes at the Society since we last met
- Our members are employed in the energy and legal sectors
- Nuclear Sector / Bruce Power
- Expertise at Bruce Power



# NUCLEAR SAFETY

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## Periodic Safety Review (PSR)

- Conducted per CNSC requirements and international best practice
- Members stand behind the accuracy and integrity of the review and assessments
- Safety enhancements allow the nuclear stations to continue to operate safely

## Probabilistic Safety Assessment (PSA)

- PSA goals are met for each of the nuclear units

# NUCLEAR SAFETY

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- Fuel Channels
  - Operation to a maximum of 300,000 Effective Full Power Hours
  - Premised on:
    - Life Cycle Management Plans
    - Inspection results
    - Control Room policies and procedures
    - OPEX that demonstrate fitness for service of Fuel Channels
    - Development of fracture toughness models

# LABOUR RELATIONS

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- Balance between hiring of permanent and contract staff
- Permanent staff
  - Arguably more committed to long term goals of the station
  - Retain institutional knowledge
  - Quality of work
  - Essential to maintain healthy nuclear safety culture
- Regular meetings with the CNSC



# EMERGENCY PREPAREDNESS

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- Emergency preparedness program has evolved from its beginnings with great improvements having been noticed
- Huron Resolve exercise successfully demonstrated the robustness of both on-site and off-site readiness responses
- Members are satisfied that their safety is taken seriously by initiatives in the community
  - Public emergency alerting via multiple different methods
  - Distribution of potassium iodide pills
  - Polling results support that nuclear station with the public knowing what to do in the unlikely event of a nuclear emergency

# CONVENTIONAL SAFETY

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- Workplace safety is a cornerstone value
- Personal stake in the safe and responsible operation of nuclear stations
- Safety goals are enhanced by the presence of unions in the workplace
- Our role on tripartite committees enables us to insist on strict standards

# RADIOLOGICAL SAFETY

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- No worker or member of the public received radiological doses in excess of the regulatory limits
- Enabled by our role on the Joint Committee on Radiation Protection (JCRP) insist on strict standards to protect employees and public
- JCRP ensures that Bruce Power's radiation dose limits for workers and the public are not only within limits set by the CNSC, but that they are always As Low As Reasonably Achievable
- Technology Employed – Robotics and “VAST program”

# ENVIRONMENTAL PROTECTION

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- Vested interest as our members work and live in close proximity to the nuclear station
- ISO 14001 Environmental Management System attest to the robust conventional and radiological effluent monitoring program
- Bruce Power executes a comprehensive Environmental Monitoring Program and no adverse environmental impacts associated with site operations are noted
- Members provide full assistance during compliance inspections

# EMPLOYEE INVOLVEMENT AND ENGAGEMENT

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- An extensive training program ensures that staff have the necessary skills and requisite knowledge to perform their duties
- Robust nuclear safety culture ensures that safety not compromised
- Member engagement has led to improvement in plant performance in all areas of plant operation
- Resolving differing professional opinions
- Community engagement - strong relationships with host community evidenced by employee driven initiatives

# DIVERSITY AND INCLUSION

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- Diversity and Inclusion in the workforce unlocks innovation
- Enshrined into business ethos
- Program driven forward by Equity and Diversity tripartite committee
- Plant performance enhanced by the diversity gains in the workforce

# SUMMARY

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- Social utility of Bruce Power
- Licensee has worked diligently to strengthened its social license by being open and transparent with the host community
- Adequate provisions have been made to protect the public, worker and the environment
- Safety enhancements arising from PSR ensures continued safe operation

# CONCLUSION

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- The Society is proud of the contribution which our members have made over the past 40+ years at the Bruce Site
- The Society's commitment to excellence is affirmed
- The Society will continue to be a strong and independent voice where we leverage our expertise and resources to create meaningful change in the workplace and host community



THE SOCIETY OF UNITED PROFESSIONALS  
THANKS THE CNSC FOR THE OPPORTUNITY TO  
COMMENT

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