

# 2017 Business Plan Rollout

Ontario Power Generation – Nuclear

**Brian McGee**

Senior Vice President

Pickering Nuclear



**POWER WITH PURPOSE:** Providing low cost power in a safe, clean, reliable and sustainable manner for the benefit of our customers and shareholder.



**VALUES:** • Safety • Integrity • Excellence • People & Citizenship

2017

**PICKERING  
NUCLEAR**

# What can each of us do to be successful?

- Work Safely
- Work Efficiently
- Work with Quality
- Support the Darlington Refurbishment
- Demonstrate OPG's behaviours: Integrate & Collaborate, Simplify It, Tell It as It Is, and Think Top and Bottom Line.





## End of Station Operations

Need the right people with the right skills at the right time

Preparing the physical plant, managing impacts across OPG and on the community

## Safe Storage

Takes place at the end of commercial operations

Involves removing fuel from the reactors and draining the water and liquids from most systems

## Decommissioning

Takes place after safe storage, OPG will begin a process to dismantle the structures

Decommissioning is a multi-decade process with distinct phases

## Repurposing Pickering Project

Strong correlation between public input and the project team's conclusions

Next Steps: evaluation to assess commercial viability and ease of implementation



# Not Quite 2015 – the Best Ever in Site History...



...but a pretty close second!

- **Human Performance:** below target (1 Event-Free Day Resets against a target of 2) – **best performance in site history.**
- **Teamwork:** metric is Net Electrical Production and our target was 20.8 TWh. Under target – main contributor: planned outage extensions.
- **Work Management:** Online Corrective Maintenance Backlog – target of 55. Getting work ready remains a challenge.



## **2017 – Achieving Total Excellence in Performance!**

- Extended Operations Program
- Re-Licensing
- Focus on the Critical Improvements  
Passion for Excellence (P4E)
- WANO Peer Evaluation
- Key Business Plan Targets



# Extending Operation Beyond 2020

- Business Case supporting Extended Operation approved by OPG BoD.
- Government endorsed change to Pickering planning basis to 2022 / 2024
- New planning basis must be supported by:
  - CCAs—condition assessments (incl. PT Life Extension Program)
  - PSR (Periodic Safety Review) update / Global Assessment Report
  - Integrated Improvement Plan
  - Ability to execute within the business case estimate
  - Must be captured in the LTEP in 2017
  - Re-licensing with the CNSC
  - Most importantly—our performance and the passion for excellence



All six units would operate until 2022; two units would then shut down and four units would operate to 2024.

- Clean energy supply during refurbishments.
- OPG has started work on a licence application for CNSC approval in 2018.

## OPG Studies

- Periodic Safety Review
- Component Condition Assessments
- Major Component Assessments

CONTINUED OPERATIONS WILL SAVE ONTARIO ELECTRICITY CONSUMERS **\$600 MILLION**



CONTINUED OPERATIONS OF THE PICKERING NUCLEAR STATION IS ASSOCIATED WITH **4,500** JOBS ACROSS DURHAM REGION



CONTINUED OPERATIONS AT THE PICKERING STATION WILL REDUCE GREEN HOUSE EMISSIONS BY AN ESTIMATED

**8 MILLION TONNES**

THAT'S THE EQUIVALENT OF REMOVING

**1.6 MILLION Cars per YEAR**

FROM ONTARIO'S ROADS

## Re – Licensing

- Timeline:
  - June 2017 letter on SD sequence—current license
  - August 2017: license submission
  - October / November 2017: GAR & IIP
  - April 2018: Commission Hearing—Part 1
  - June 2018: Commission Hearing—Part 2
- Process:
  - Licensing package
- What to Expect:
  - Interventions of Support
  - Interventions of Challenge
  - Making Us Stronger



## HOW IT ALL FITS TOGETHER

OUR VISION



**WORKING TOGETHER WITH A PASSION FOR EXCELLENCE**

### HUMAN PERFORMANCE BEHAVIOURS

- Execute work safely and with quality
- Celebrate successes and accept learning opportunities
- Choose and use the right Event-Free Tools for every job
- Use constructive and positive peer coaching

2017 Event-Free Day Resets (#) **TARGET 2**

### TEAMWORK BEHAVIOURS

- Foster an open and collaborative environment
- Empower effective and efficient cross-functional teams
- Facilitate effective decision making

2017 Net Electrical Production (TWh) **TARGET 20.1**

### FIX THE PLANT BEHAVIOURS

- Prioritize, prepare and ready the right work
- Optimize our resources
- Produce quality online and outage work schedules
- Execute the work safely and with quality

2017 Online Corrective Maintenance Backlog (WOs/Unit) **TARGET 28**



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OUR GOAL = Be the Best Performing TEAM in the Industry.

2017 PICKERING  
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Questions?



ONTARIO **POWER**  
GENERATION