

**POWERING FORWARD: DELIVERING ON OUR COMMITMENTS**

**DARLINGTON  
REFURBISHMENT  
UPDATE**



**ONTARIO POWER  
GENERATION**

# SAFETY



**10 YEARS  
NO LTA**

**11 MILLION HOURS  
SAFELY  
WORKED**

**10X BETTER  
INDUSTRY  
STANDARDS**

**3X IMPROVEMENT  
SINCE  
STAND-DOWN**



# SCHEDULE



**71** PER CENT  
**COMPLETE**

**22/58** SYSTEMS  
**AVAILABLE**

**126/185** WINDOWS  
**CLOSED**

**85%** BULK WORK  
**FINISHED**

# COST AND PERFORMANCE/



**27M**

**UNDER  
BUDGET**

**E@C**

**ON  
PLAN**

**U3 ONLINE  
WORK  
UNDERWAY**



**READY FOR  
REFURB  
OCT 2019**



# SEGMENT PROGRESS

## Segment 1: Defuel Reactor and Isolate from the Station



OCT 15, 2016  
BREAKER OPEN

PROGRESS AS AT MARCH 31, 2017  
19 DAYS AHEAD OF SCHEDULE

## Segment 2A: Prepare for Reactor Component Removal



SEGMENT 2A  
APRIL 27, 2017

## Segment 2B: Remove Reactor Components



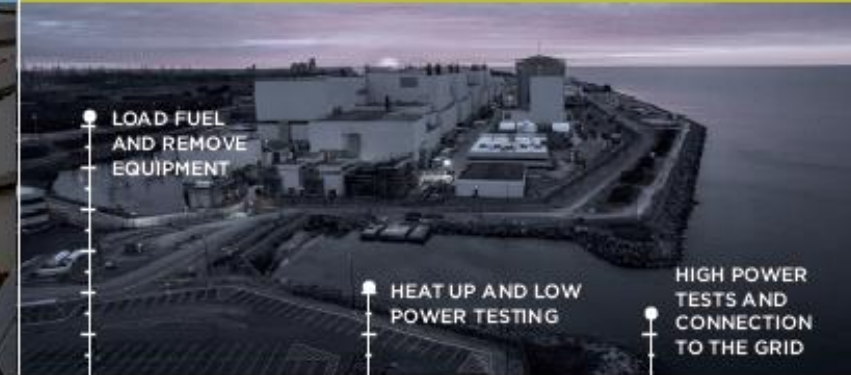
SEGMENT 2B  
DEC 17 START

## Segment 3: Install Reactor Components



SEGMENT 3  
JUNE 2, 2018 START

## Segment 4: Load Fuel, Test and Restart Reactor



SEGMENT 4  
AUG 7 2019 START

PROJECT COMPLETE  
FEBRUARY 27, 2020



WE  
ARE  
HERE

# Q3 PERFORMANCE UPDATE

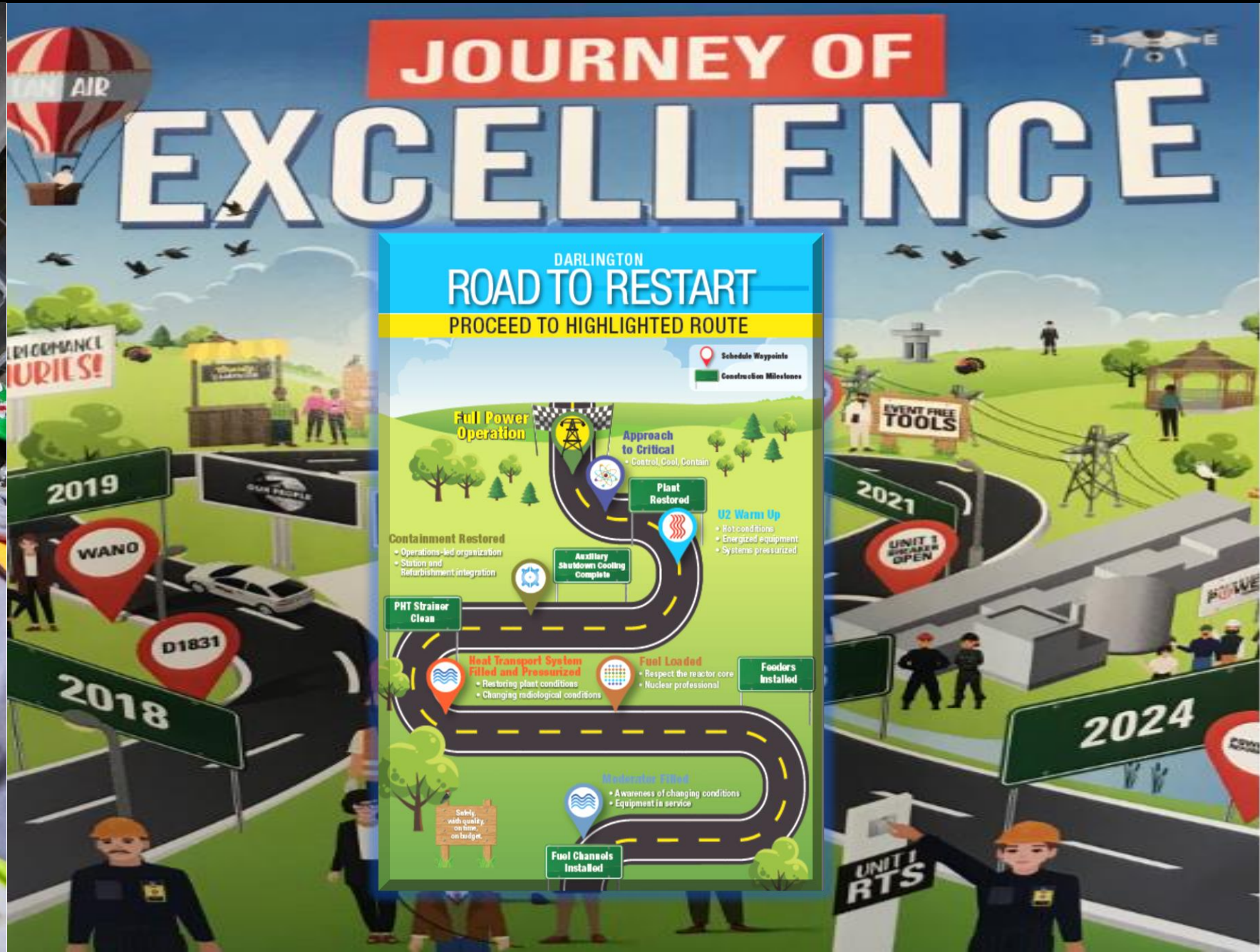
• THE DARLINGTON  
**NUCLEAR REFURBISHMENT** •  
P R O J E C T

2018 Q3 PERFORMANCE UPDATE





# ROAD TO RESTART





# PLANT RESTORATION



**R**estoration of the Plant  
**R**eturn to Ops-led organization

**100%**

**COLLABORATION  
INTEGRATION  
ONE TEAM**

**Station/Project/Vendors**



# HEAVY WATER MANAGEMENT BUILDING WEST ANNEX



West  
Annex  
(WA)

Heavy Water  
Management  
Building  
(HWMB)

Backup  
Diesel  
Generator

Diesel  
Tanks

# TANK STORAGE ELEVATION

Capacity of **2100 m<sup>3</sup>** of storage space for **heavy water**





# PROJECT STATUS



**88 per cent complete**  
**All major equipment delivered**  
**160 valves**  
**45K feet of cable**

**Available for Service**  
**Summer 2019**



# 2018 STUDENT DAY AND OPEN HOUSE

## STUDENT DAY

Over 400 students  
“best field trip ever”  
Focus on trades

## OPEN HOUSE

2800 visitors  
Minister Tour

