



# Significant Extended Transmission Outages Winter 2017/2018



Lagy Mathew

Sr. Engineer

PJM Transmission Operations

- To avoid any potential conflict during shoulder season (Spring/Fall)
- No major operational impact
- To shorten outage window

## Current Schedule

	Jan-Jun 18	Jul-Dec 18	Jan-Jun 19	Jul-Dec 19	Jan-Jun 20	Jul-Dec 20	Jan-Jun 21	Jul-Dec 21	Jan-Jun 22	Jul-Dec 22
Dooms-Cunningham 500 kV	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■								
Mt.Storm-Valley 500 kV				■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■				
Valley-Dooms 500 kV								■ ■ ■ ■ ■ ■		
Ladysmith-Elmont 500 kV									■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Bristers-Chancelor 500 kV										■ ■ ■ ■ ■ ■ ■ ■ ■ ■

## Schedule updated to avoid Winter

	Jan-Jun 18	Jul-Dec 18	Jan-Jun 19	Jul-Dec 19	Jan-Jun 20	Jul-Dec 20	Jan-Jun 21	Jul-Dec 21	Jan-Jun 22	Jul-Dec 22
Dooms-Cunningham 500 kV	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■						
Mt.Storm-Valley 500 kV					■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Valley-Dooms 500 kV										■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Ladysmith-Elmont 500 kV										
Bristers-Chancelor 500 kV										

## ➤ Background

- RTEP project b2665 to rebuild Dooms-Cunningham 500 kV line in Dominion zone
- Driver - End of Life Criteria
- Expected in-service date of June 2019

## ➤ Outages

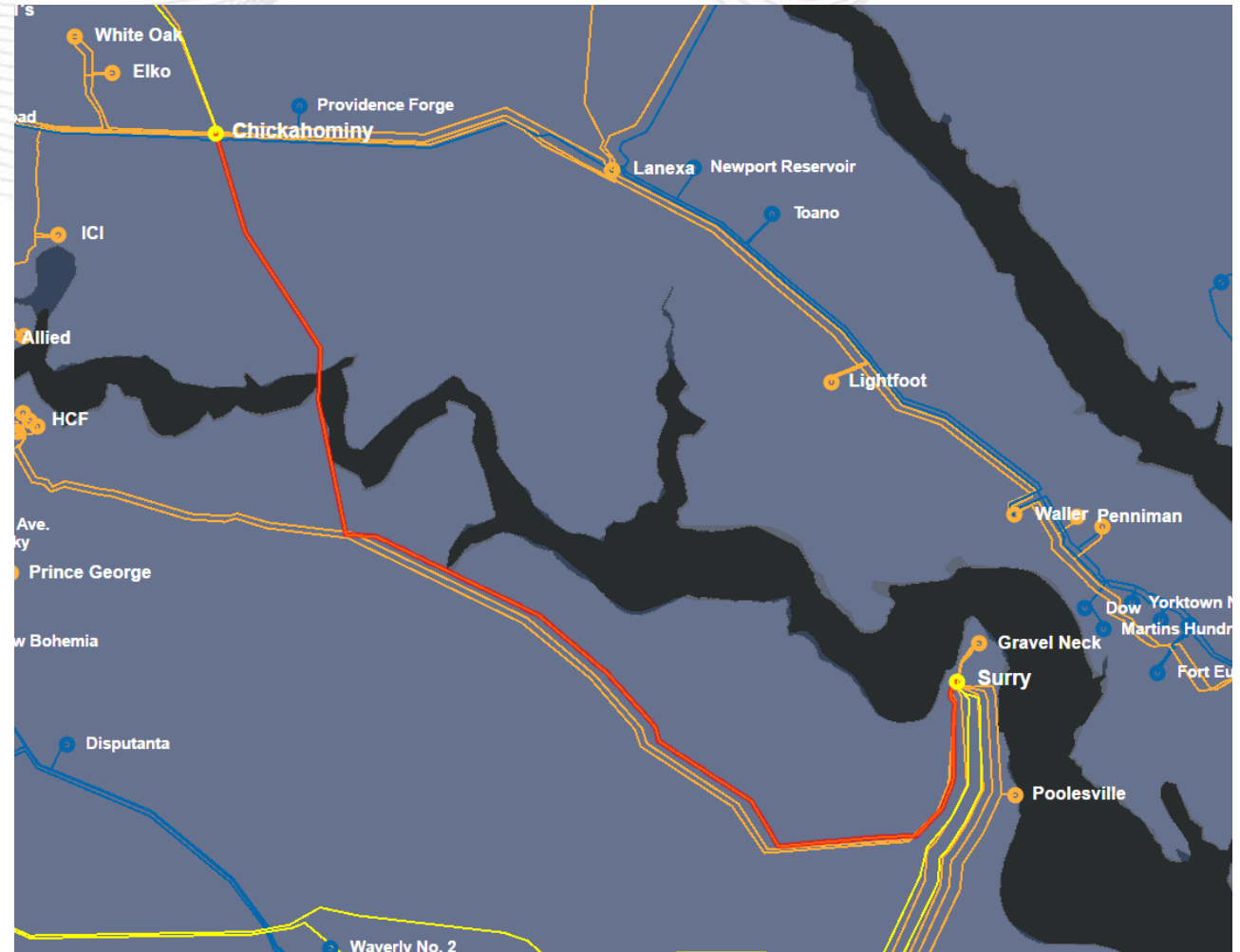
- eDART Ticket 494754 – 01/01/18 to 06/01/18
- eDART Ticket 514425 – 09/02/18 to 12/29/18
- eDART Ticket 618962 – 01/02/19 to 05/03/19



- Operational Impact
  - No reduction to generation capacity due to stability
- Congestion
  - May cause minor thermal overloads in the area during pumping period
  - May cause potential low voltages in the area
    - Local capacitors provide reactive support

# Surry - Chickahominy 500 kV Outage

- Background
  - Replace the James River crossing structures and conductors
- Outage
  - eDART Ticket 631855 – 09/16/17 to 02/28/18
- Impact
  - No operational impacts



# Ladysmith - Elmont 500 kV Outage

- Background
  - Replace CCVT, Wave Trap, tuner and potential make-up box
- Outage
  - eDART Ticket 650006 – 01/08/18 to 02/06/18
- Impact
  - No operational impacts



