

PLANNING AREAS OF CONCERN

Three Planning Areas of Concern

- **Northern Virginia – west of I95/495**
 - Loudoun County Data Center Grown
 - Tyson's area long term build out plan
 - metro
- **115 kV System between Fredericksburg and Richmond**
 - Projects over multiple planning cycles
- **115 kV System located between Chancellor – Gordonsville – Remington**
 - Projects over multiple planning cycles

Developed a 2020 Study Case

- **Based on 2016 RTEP model**
 - Scaled Dominion, APS, PEPCO, BG&E & Delmarva loads to Summer 2020 projected values based on 2012 Load Forecast
 - Scaled all generation within PJM to match load increase
- **Added committed load additions based on input from Dominion Distribution & ODEC Load Forecast(November 2011)**

Developed a 2020 Study Case

- **One additional alternative scenario will also be evaluated**
 - **Tyson's area projected build out**
 - **Additional data center projects not yet committed**
- **Study Case & Load IDV sent to PJM**

2020 Study Case “Preliminary Results”

- **Initial Single Contingency Analysis Complete**
 - **Two – 500-230 kV Tx’s overloaded**
 - Loudoun 500-230 kV Tx #1 & #2
 - **Two – 230 kV Lines overloaded**
 - Remington CT – Gainesville & Brambleton -Beaumeade
 - **Three – 115 kV Lines overloaded**
 - Bristers – Ox, Four Rivers – Fredericksburg & Gordonsville – Oak Green
- **Continue to review study results for accuracy**
- **Run Additional Reliability Studies**
 - **Stress System Conditions**
 - **Tower Line Contingency**
 - **Line Stuck Breaker Analysis**
- **Add Final Load idv and re-run analysis**

2020 Study Case

Questions??