New Remedial Action Scheme

North Hampton RAS

Presentation to PJM



Dominion





- **PJM System Operations Subcommittee**
- **PJM Relay Subcommittee**
- **PJM** Planning Committee
- **PJM Operating Committee**
- **PJM Market Implementation Committee**
- **PJM Markets and Reliability Committee**

Yorktown Generation



- Environmental regulations make continued operations impractical
- Yorktown 1&2 coalfired generators will retire April 2017



North Hampton Roads Area Problems



Under certain conditions

- Voltage collapse in the Peninsula area
- Significant overloads
- Long list of N-1-1 contingencies that result in voltage collapse and thermal overloads



- PJM project b1905 establishes a new 500kV line across the James River.
 - PJM's board approved in May 2012
 - Virginia State Corporation Commission (SCC) approved on 11/26/2013 and granted a CPCN
- Army Corps of Engineers permit submitted
 - Approval of Army Corps permit is still pending
- Line cannot be built in time to cover Yorktown retirement



- RAS is armed at PJM's discretion
- Detects loss of certain facilities
- Trips remaining feeds to Yorktown area
 - Drops about 150,000 customers
 - Prevents Voltage Collapse

- Rotating outages will follow until facilities are repaired

North Hampton RAS





Not a substitute for Surry-Skiffes Creek Project



- RAS is only a stopgap measure

- Does not provide a long term solution
- Drops too much load
- Repair time could be lengthy
- Per PJM Manual 07, new RASs should be temporary



