

DOMINION MANASSAS AREA VIOLATIONS

The Manassas area of northern Virginia in the Dominion territory is experiencing significant load growth due to the introduction of multiple new load locations and increases to existing load. The original introduction of new load was identified with smaller magnitudes of new load. However, subsequent increases in that new load have resulted in a magnitude of load significantly greater than was originally reviewed.

The original introduction of load in this area had commitments by customers to connect load as was studied by PJM in the do no harm tests. PJM and Dominion discussed with the stakeholders during these meetings that there was a potential to have a significant increase in load at a later date, however, this additional load was not confirmed, during initial discussion by the customers, through the process Dominion employs to determine if new load is to be served, and how that service would be provided. Based on evolving information from the customers since the summer of 2019, the load increases in the load pocket identified in the violations as discussed briefly below and are posted in the list of reliability violations for PJM 2020 Window 1 results, are now expected to exceed 500 MW.

The results of both the winter and summer 2025 RTEP N-1-1 analysis show that load drop violations will occur for the loss of multiple pairs of 230 kV feeds into this area of the system in 2025 and as a result of reverse power relay schemes to prevent feeding the 230 kV system in the area from the 115 kV system. Due to the significant increase in load over the near term, and the interaction of the reverse power relay scheme, the load drop violations are now anticipated to occur in the 2022/2023 time frame.

Additionally, due to the expected arrival of future load growth in this area, integrated plans need to be considered to address the growth potential that has been evident in this area of the system.

As a result, this project will be designated immediate need to address the near term violation of dropping more than 300 MW in the 2022/2023 timeframe as well as those violations seen in 2025. Due to the interrelated nature of the existing facilities that serve load, as well future anticipated load growth, Dominion will be designated the entity to mitigate these violations.