Breinigsville Substation

PPL Electric Utilities
Breinigsville Project Details

• Project Summary
  – PJM Baseline RTEP Project
  – b1204: New Breinigsville 500-138-69 kV Substation and connecting 500 kV and 138/69 kV Transmission Lines

• Project Purpose & Necessity
  – This project will resolve the following planning criteria violations:
    • Loss of Wescosville 500-138 kV Transformer T3 causes an excess of 8% voltage drop on 138 kV lines between Wescosville and Siegfried Substations
    • Loss of either 138-69 kV transformer T1 or T4 at Wescosville Substation will load the remaining transformer in excess of its one month rating (even with backup 230-69 kV transformer T2 at Wescosville as a support.)
    • Loss of Wescosville-Trexlertown #1 & #2 138/69 kV lines will exceed PPL EU’s Reliability Principles and Practices guidelines for maximum allowable load drop.

• Expected In-Service date:
  – May 31, 2015
• PPL will be cutting Breinigsville into the existing Wescosville-Alburtis 5044 500kv line

• PPL proposes re-using the 5044 line designation for the Wescosville-Breinigsville 500kV line

• PPL proposes the 5058 designator for the Breinigsville-Alburtis 500kV line
Existing Wescosville-Alburtis line (5044). The 5044 designation will be re-used for the Wescosville-Breinigsville line.

Breinigsville-Wescosville line, proposed designator 5088.