



Duke Energy Ohio/Ky
2014 RTEP Assumptions for
Western Sub-region
January 2014

Duke Energy Ohio/Ky

- Serves Greater Cincinnati area
- Total Transmission Facilities: 1903 Miles
 - 345 kV ~ 403 Miles
 - 138 kV ~ 725 Miles
 - 69 kV ~ 775 Miles

Load Flow Cases

- DEOK uses the RTEP and ERAG MMWG cases for transmission and 69 kV analysis
 - RTEP case
 - DEOK works with PJM to develop RTEP case.
 - Verifies topology, impedance, etc. are accurate
 - MMWG case
 - DEOK detail model added
 - Projects modeled
 - Load scaled to latest 50/50 forecast

2013 RTEP Baseline Assessment

- PJM performs analysis on DEOK area using RTEP case
 - PJM performs analysis to satisfy NERC Reliability Standards (TPL-001 thru TPL-004)
- DEOK validates the analysis and coordinates with PJM to identify upgrades
- The upgrades are presented to the Sub Regional RTEP Committee and/or the TEAC
- RTEP model is available from PJM

Supplemental Projects

- DEOK criteria based upgrades
 - Provide support to 69 kV and distribution system
 - Facilitate interconnection of new transmission customers
 - Provide operating flexibility
 - Address aging infrastructure
- Not approved by PJM Board
- Reviewed at sub-regional and/or meetings to allow stakeholder input
- DEOK Transmission Planning Criteria – filed under FERC Form 715 and posted on PJM website
 - [//www.pjm.com/planning/planning-criteria.aspx](http://www.pjm.com/planning/planning-criteria.aspx)