



EAST KENTUCKY POWER COOPERATIVE

Transmission-System Assessment Update






CPPP Stakeholder Meeting

April 30, 2009


Where We Are

- Category A, B, C, and D assessments performed for 2009-2018 period.
- Models from NERC 2007 Series
 - EKPC and E.ON U.S detailed models inserted
 - Interchange modeled is that in NERC models
- Projects already in construction stages locked
 - J.K. Smith-West Garrard 345 kV Line
 - Central Hardin Substation

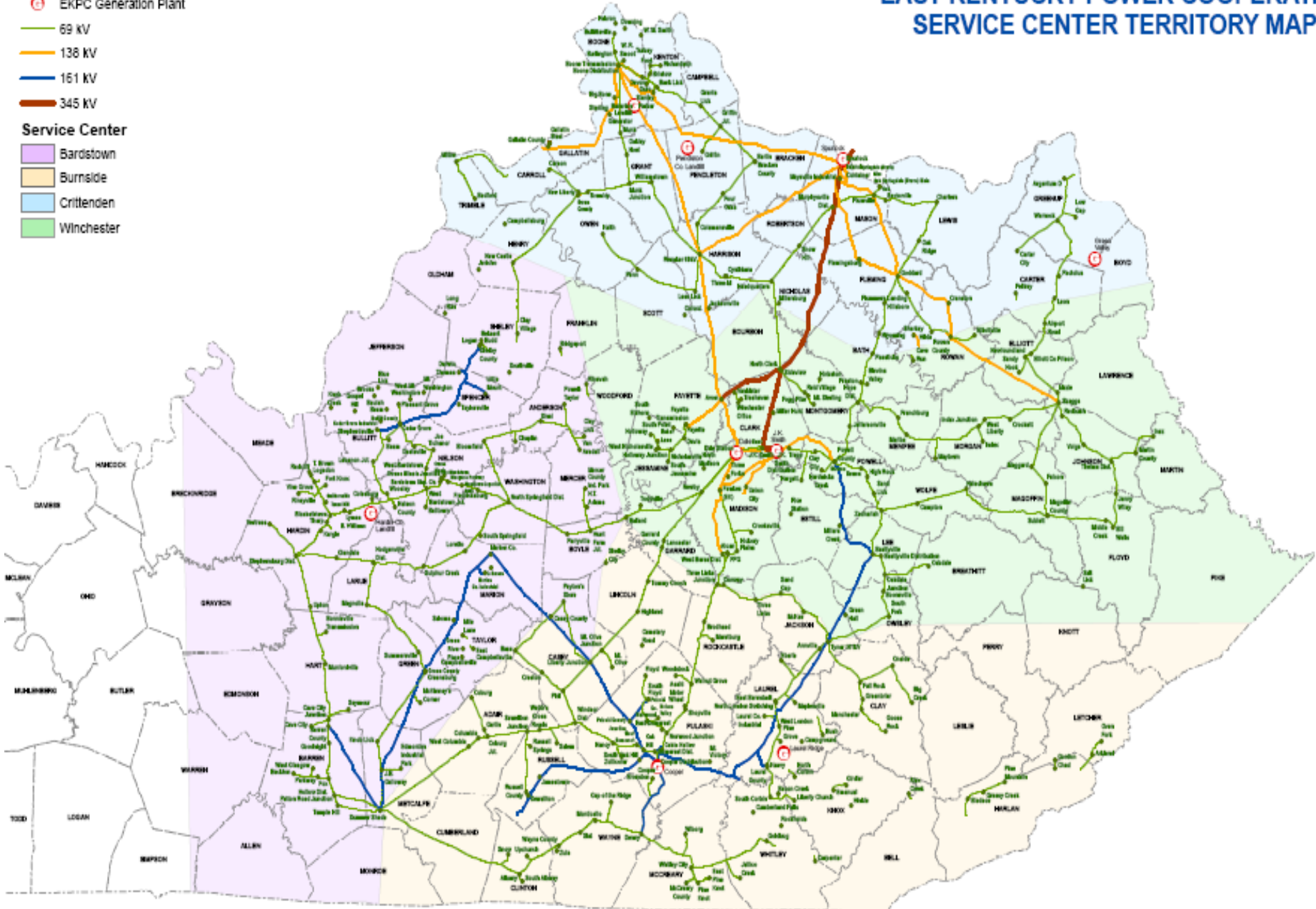
Legend

-  EKPC Generation Plant
-  69 KV
-  138 KV
-  161 KV
-  345 KV

Service Center

-  Bardstown
-  Burnside
-  Crittenden
-  Winchester

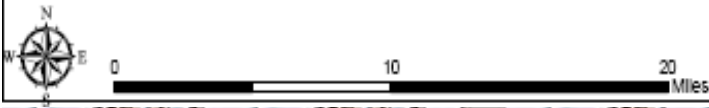
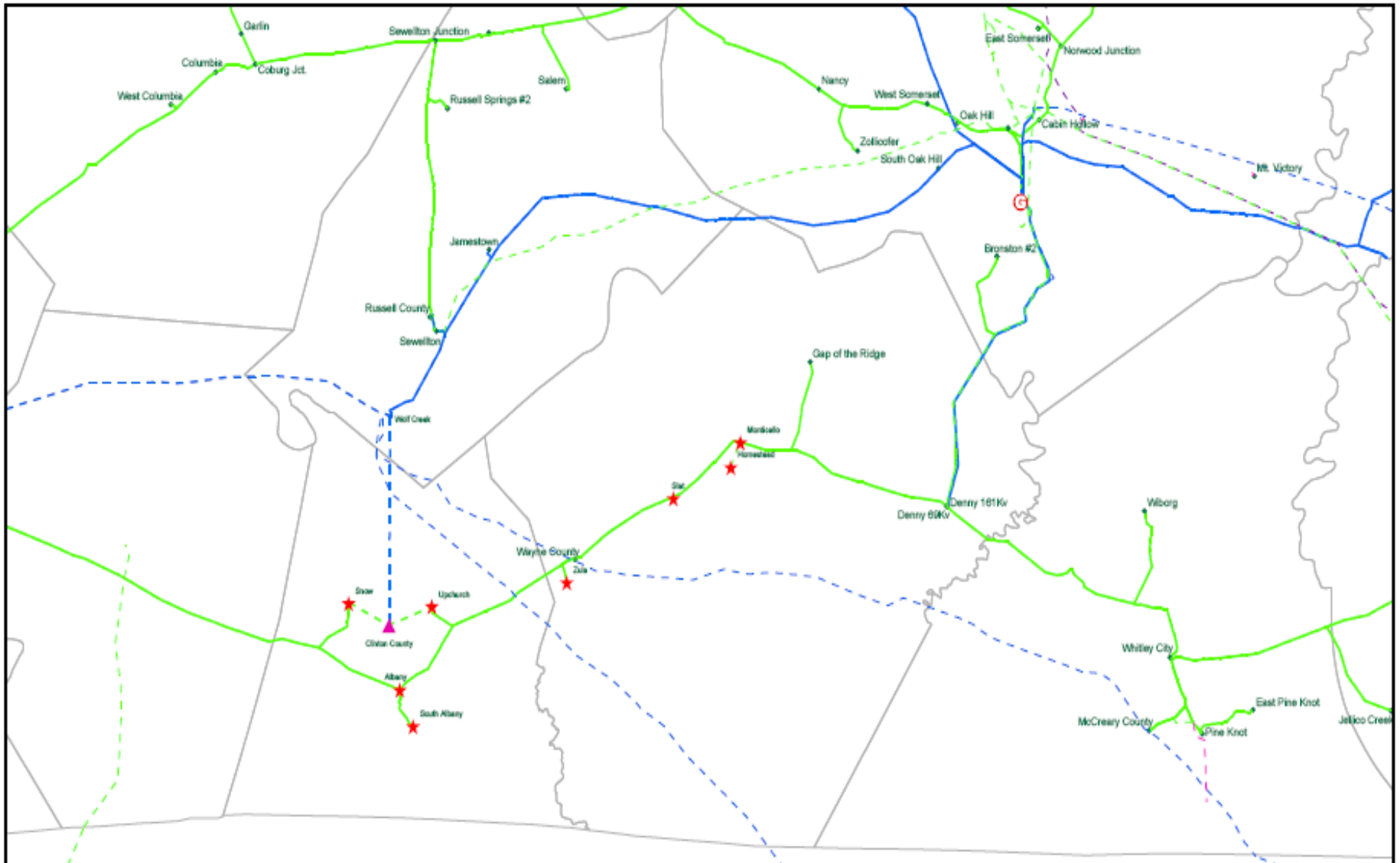
**EAST KENTUCKY POWER COOPERATIVE
SERVICE CENTER TERRITORY MAP**



Study Results (100 kV and Above)

- Wolf Creek-Wayne County-McCreary County 161 kV Line Outage
 - Low voltage at EKPC Albany, Homestead Lane, Monticello, Slat, South Albany, Upchurch and Zula substations in 2014/15 Winter
- Proposed solution: New Clinton County 161/69 kV substation and new Wolf Creek-Clinton County 161 kV line (9 miles)
 - Other alternatives considered include:
 - distributed generation in area
 - 69 kV capacitor banks
 - 2nd Wayne County 161-69 kV transformer

EAST KENTUCKY POWER COOPERATIVE Transmission System Map



Summary of Additional Study Results

- No Category A Violations Identified
- 56 Category B violations – only one involves Bulk Electric System (100 kV and above)
- 67 Category C contingencies investigated further to ensure no unplanned or uncontrolled cascading could occur
- 30 Category D contingencies assessed

Other Items

- Presently no Transmission Service Requests or Generation Interconnection Requests under study
- Five transmission-to-transmission interconnections are presently in construction phase (2 with Duke Energy, 2 with E.ON, and 1 with TVA). Two additional T-T interconnections presently being studied.
- No Economic Planning Studies have been requested
- Completed detailed Three-Year Construction Work Plan (covering 2009-2011 period) in 2008. Next Work Plan will be developed in 2011 to cover 2012-2015 period.
- Currently developing 30-year Long-Range Work Plan

Questions?...