Winter 2014 Outage
Doubs – Mt Storm 500kV Line
The Doubs – Mt Storm 500kV line replacement project is an RTEP backbone project based on aging infrastructure:
- Equipment in service since 1960’s
- Concerns with structural integrity
- Emergency outage in 2012 due to tower damage

- Replace 99 miles of structures and conductors

- Original scope included 8 outages scheduled 2012-2015
Doubs – Mt. Storm Project Update

• If approved for final requested outage (Fall 2013 – Spring 2014), work should be completed 1 year ahead of original schedule

• All foundation work and tower assembly to be completed by summer of 2013

• Approximately 70% of all line work will be completed by September 2013
Doubs – Mt. Storm Project Update

• Revised outage scope calls for 5 outage windows (assuming winter outages):
  – Fall 2011 (completed)
  – Spring 2012 (completed)
  – Fall 2012 – Spring 2013 (completed)
  – Fall 2013 – Spring 2014 (eDART #416387)
  – Fall 2014 – Spring 2015* (eDART #420013)

  *Outages should not be needed and will be reassessed in Jan/Feb 2014 to confirm.
Doubs – Mt Storm Outage Analysis

• PJM Analysis for January – February 2014
  – Projected RTO Winter 2013/14 Peak Load is 132,229 MWs
    • Approximate Winter 2012/13 Winter Peak was 126,632 MWs
  – No uncontrollable N-1 thermal or reactive issues
  – N-2 scenarios were studied to simulate potential tripping due to ice storms during peak-winter weather conditions
  – Potential increased frequency of PCLLRW issuance under N-2 scenario above load thresholds which were realized only 3.6% of hours during past 4 winter periods (2009-2012)
• No major issues during the Winter 2012/2013 outage

• Line to remain out during Winter 2013/2014 Peak
• **4.2.6 Peak Period Outage Scheduling Guidelines**

• Transmission owners should avoid scheduling any outage in excess of 5 days in duration with no or greater than 5 day restoration time that may result in increased risk to system reliability during peak summer and winter periods. These periods are defined as June 15 – August 31 and January 1 – February 28, respectively. These outages include those that may result in:

  • Actual or post-contingency thermal or voltage issues with insufficient generation for control
  • Constraints that are load sensitive with limited controlling actions
  • Stability issues or bottled generation

• Transmission owners shall screen for such outages prior to submittal in eDART and look to reschedule during shoulder months. PJM shall screen for such outages when performing outage analysis. The transmission owners are encouraged to schedule non-impactful outages during peak seasons.

• PJM may grant exception to ensure RTEP upgrades are installed within specified timeframes or as special circumstances warrant.
551 Line
old corten steel

“Pack Out”
(excessive corrosion)