2014/2015 Winter Assessment

October 3rd, 2014

Chris Haley
chaley@spp.org
501.614.3583
Assessment Staff

- Chris Haley, Engineer Associate III (RTO)
- Derek Hawkins, Sr. Engineer (RTO)
- Will Tootle, Supervisor, Operational Planning (RTO)
- Alan Wahlstrom, Lead Engineer (SPP RE)
Winter Reliability Assessment

• Projected seasonal outlook for winter 2014/2015
  – Focus on Reporting Area Peak (January)

• Primary objectives:
  – Identify areas of concern
  – Make recommendations for mitigations/actions as needed

• Provides high-level overview of winter reliability assessment for SPP RTO region
  – Demand growth
  – Capacity adequacy
  – Operational reliability
Assessment Area

• SPP Planning Authority Reporting Footprint
  – Nebraska still registered with Midwest Reliability Organization (Regional Entity)
  – SPP RTO operational and planning area includes Nebraska
Assessment Process

• Created with a combination of projected data/information submitted by SPP Reporting Entities and SPP historical actuals
• SPP staff validate and cross-check data to verify consistency
• SPP staff aggregate information into one dataset for entire assessment area
• SPP staff use peer review process to validate data and develop reliability assessments
• Assessment then undergoes peer-review process at NERC prior to finalization
2014/2015 Winter Demand & Capacity

- 35,265 MW  Projected Total Internal Demand (coincident)
- 37,106 MW  Actual 2013/2014 winter peak demand *
- 64,179 MW  Existing Certain Capacity resources
  - This capacity number represent Net Capability

* January 6th, 2014 and aligns with the 2014 Polar Vortex Event
Major Transmission Additions

• **1,088** miles of transmission expected to be added by the end of the winter assessment timeframe
  – Thistle – Woodward 345 kV line (107.6 miles)
  – Tuco – Woodard 345 kV line (180 miles)

• Several new transformer additions are expected be completed by the end of the winter assessment timeframe
Reliability and Reserves

• Reserve margins adequate
  – SPP members required to maintain 12% capacity margin - translates to a 13.6% reserve margin
  – Forecasted reserve margin is 81% for winter 2014/2015

• Reliability Concerns
  – Coal delivery continues to be an emerging issue
  – Wind integration continues to be an active issue
  – Extreme weather not expected to impact reliability
Resource Adequacy

• **SPP continues its bi-annual study process**
  – 4-year look ahead for reliability issues
  – Weekly snapshots through the 4 years
  – Scheduled outages taken into account

• **No expected impact in 2014/2015 winter timeframe**
Winter Readiness

- Winter Weather Readiness Reliability Guide
Next Steps

- October 10th - Send comments/questions regarding draft assessment to chaley@spp.org or 501.614.3583
- October 17th - SPP sends final assessment to NERC
- CMTF integration