Assessment Staff

- **Chris Haley**, Engineer Associate III (RTO)
- **Alan Wahlstrom**, Lead Engineer (SPP RE)
- **Derek Hawkins**, Senior Engineer, Ops Engineering Analysis & Support (RTO)
Summer Reliability Assessment

• Projected seasonal outlook for summer 2015
  – Focus on Reporting Area peak (August)

• The report addresses:
  – Reliability concerns
  – Recommendations for mitigations/actions as needed

• Provides high-level overview of summer reliability assessment for SPP Planning Coordinator footprint
  – Demand growth
  – Capacity adequacy
  – Operational reliability
Assessment Process

• Report is created with a combination of projected data submitted by SPP Reporting Entities and SPP historical actuals

• SPP staff:
  - Validates and cross-checks data to verify consistency
  - Aggregates information into one dataset
  - Uses internal peer review to validate data and respond to NERC’s narrative “template”
  - Holds webinar for stakeholder input

• Assessment then undergoes peer-review process at NERC prior to finalization
2015 Summer – Non-Coincident Demand & Capacity

• 50,529 MW projected 2015 peak demand
• 63,605 MW Existing Capacity resources
  – This capacity number represents Net Capability
  – Includes 1,326 MW of Available Wind
  – Includes 33 MW of Available Solar
  – Includes 2,157 MW of Available Hydro
Major Transmission Additions

• 61 mile Iatan - Nashua 345 kV line to be added during summer assessment timeframe

• Several transformer additions and substation re-configurations are expected to be in service by end of summer timeframe
Reserve Margins

• Reserve margins adequate
  – Per SPP Criteria, load serving members are required to maintain 12% capacity margin - translates to a 13.6% reserve margin
  – Forecasted reserve margin is 32% for summer 2015
Reliability Concerns

• Operations has no ongoing identified concerns

• Coal supplies could potentially be reduced/delayed due to railroad congestion

• Wind integration continues to be an active issue
  – 1,868 MW of new nameplate wind is expected to be in-service by end of summer 2015

• SPP Assessment Area is experiencing increase in oil & gas drilling, causing load growth in OK, KS, TX, and NM
  – SPP staff reviews Notices to Construct quarterly to verify projects are still needed
Demand Response

- Demand response programs in SPP Assessment Area are voluntary and primarily targeted for summer peak.
- SPP Assessment Area members include their own demand response and Energy Efficiency programs as load forecast reductions.
Next Steps / Summary

- Send any comments to Chris Haley by April 10
- SPP sends finalized draft assessment to NERC April 17
- NERC publishes in May
- Assessment area has sufficient capacity to meet forecasted demand during 2015 summer assessment period