

Southwest Power Pool: Winter 2015

September 17, 2015

Bruce Rew, PE

BRew@spp.org 501.614.3214



Helping our members
work together to
keep the lights on...
today and in the future



SPP Winter 2015 Operations

- Winter preparedness
- Fuel assurance
- New/Updated procedures
- Testing
- Gas-electric coordination
- Increasing situational awareness

Winter Preparedness

- **SPP will be adding the Integrated Systems to the SPP BA as of October 1, 2015**
 - These entities are traditionally winter peaking
- **SPP included the Integrated Systems in its annual winter assessment**
- **SPP will host a winter preparedness workshop on December 10, 2015**
 - Cover relevant emergency procedures and industry wide lessons learned
 - Work with TOPs and other entities (neighboring RCs, BAs, etc.) to address specific concerns/questions
 - Gas pipeline representatives are encouraged to attend and have attended past workshops

Fuel Assurance

- **SPP Emergency Operating Plan has criteria for market participants to notify the SPP Balancing Authority when they foresee fuel could be restricted below certain thresholds**
 - Criteria is broken apart by fuel type
 - Notifications are intended to help prepare SPP in advance of any larger fuel issues
- **SPP performs various fuel-related assessments/studies throughout the winter depending on forecasted system conditions**

New/Updated Procedures

- **SPP Region Weather Alert Procedure**
 - **Coordination and communication between SPP and gas pipelines based on weather evaluations of the SPP footprint.**
 - **Based on operational multi-day assessments**
 - **Shift Supervisor gathers information**
 - **Discuss situation with gas pipelines (Southern Star, Northern Natural, and Enable Midstream, etc.)**
 - **Action plan developed and distributed to impacted parties.**

Testing

- SPP interacts with TOP and GOPs in the SPP RC and BA footprint, as needed, for testing.
- Coordinated Load Shed Testing between SPP and TOPs will begin this fall.
- Weekly communication tests between SPP and MPs/TOPs.
 - Blast Call
 - Satellite Phone



Current State of Gas-Electric Coordination

- **Gas Electric Coordination Task Force (GECTF)**
 - Submitted proposal in response to FERC Order 206 for timing changes of the Integrated Marketplace timeline to better match the gas day.
 - Earlier posting of DA Market results leads to earlier posting of DA RUC results in time for the evening gas nomination.
 - Earlier commitments from Multi-Day Reliability Assessments for weather related (Conservative Operations) type events
 - Discussions related to communication changes that were implemented in the updates to the SPP BA: Emergency Operating Plan

Increasing Situational Awareness

- **Overlay added to Transmission Viewer to include pipeline information at a high level.**
- **Macomber Map development underway to show weather patterns, more detailed information related to gas pipelines and interactive scenarios. Initial roll out expected late in 2015 with limited functionality**
- **Project proposed to integrate pipeline data and alerts with situational awareness tools**
- **Enhanced TOP/GOP situational awareness alerts**



Conservative Operations

- **Cold Weather Alert**
 - SPP has performed analysis of an anticipated weather condition and has determined additional actions are not needed.
 - Indicates timeframes of weather conditions
 - Moves to Conservative Operation Alert if additional actions are needed.
- **Conservative Operations Alert**
 - Conditions are such, or expected to be such, that some extraordinary measures may be necessary to maintain reliable operations Early committal of resources
 - Bridging of resources
 - Delaying/postponing outages, if possible
 - Additional status updates, as needed
- **Discussed throughout the year in workshops and with stakeholders**