MISO Gas-Electric Coordination Update

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Major Interstate Pipelines in the MISO Footprint
System Operations Update

• No significant operating events occurred in MISO during the summer of 2013.
• Summer 2013 characterized by below average to average temperatures with one moderate heat wave during the week of July 15th
System Operations Update

• Above normal summer temperatures occurred across the footprint throughout the week of July 15th.
• Peak loads increased throughout the week resulting in a 2013 instantaneous peak of 95,777 MW set on July 18th.
System Operations Update

• All time peak set on July 23rd, 2012 of 98,576 MW.
• MISO declared Hot Weather Alerts and Conservative Operations on multiple days because of the tight operating conditions.
System Operations Update

• On July 17\textsuperscript{th}, MISO declared a Maximum Generation Alert when projected peak hour capacity surplus was expected to be less than 1\% of requirements.
Phase III Gas Study:
MISO Midwest Takeaways

• There is a clear trend of decreasing sub-regional constraints and increasing interconnectivity in the MISO Midwest footprint, with isolated exceptions.
Phase III Gas Study: MISO Midwest Takeaways

• Shifting supply and demand fundamentals outside and inside the Midwest Market will increasingly position the region as a destination rather than a waypoint for gas en route to other markets.
Phase III Gas Study: MISO Midwest Takeaways

• Increased retention of supply passing through the region, greater diversity of supply options and growth in Bakken production will provide end users with opportunities to reassess asset portfolios.
Phase III Gas Study: MISO Midwest Takeaways

• Strong supply basins in the Northeastern US will continue to impact Midwestern flow patterns and increasingly help serve Midwestern demand; however, infrastructure expansion is still needed to move gas into the region and to address area-specific constraints.
Phase III Gas Study: MISO South Takeaways

• End users in the MISO South Region will continue to have access to numerous supply sources due to an exceptionally well-connected pipeline network.
Forward Resource Adequacy

• While the gas delivery system is becoming more robust, the potential for a 3-7 GW resource shortfall in MISO Midwest in 2016/2017 still exists, as uncertainty surrounding commitments to build capacity persists.
OMS Survey

• MISO is working with the Organization of MISO States to gauge generation resources available to the MISO footprint in the 10-year planning horizon by surveying Load Serving Entities (LSEs) on future load expectations, resources to serve this load, and potential new resources and EE/DR programs.
Coordination Field Trial

- MISO kicked off a 6-month coordination field trial with ANR Pipeline Company this October.
- The field trial aims to further coordination between industries, enhance operator situational awareness and improve reliability.
Coordination Field Trial

• Will include a joint monthly review of pipeline outages and potential service impacts, as well as short-term notice of unplanned pipeline events and communication during Emergency Conditions, when possible.
Coordination Field Trial

• At the completion of the field trial, MISO will work with stakeholders and the gas industry to review outcomes.
**Additional Gas-Electric Initiatives**

**Initiative:** Stakeholder Task Force Issue Summary Paper on Misalignment of the Gas/Electric Days

**Status:** Completed Aug. 2013; recommendation to MISO Steering Committee to survey market participants on moving up MISO Day Ahead market schedule
Additional Gas-Electric Initiatives

**Initiative:** Stakeholder Task Force Issue Summary Paper on Resource Adequacy

**Status:** Will be completed Oct. 2013; examines GADS reporting, seasonal aspects of resource adequacy, and LOLE methodology
Additional Gas-Electric Initiatives

**Initiative:** Loss of Load Expectation Study (LOLE) to capture fuel risk

**Status:** In progress; study completion targeted for Q1 2014
Additional Gas-Electric Initiatives

**Initiative:** Stakeholder Task Force Issue Summary Paper on Coordinated Operations

**Status:** In progress; examines opportunities for info/data sharing; recommends trial communication exchange with NG pipelines
Additional Gas-Electric Initiatives

Initiatives: Develop database of NG generators and associated infrastructure in the MISO footprint; develop web platform to consolidate critical pipeline notices impacting MISO, and pipeline overlay overhead display for MISO Ops

Status: Being investigated / in progress