



Electric Gas Interface

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background

- Natural Gas supply chain have been identified as a contributing issues in a number of past cold weather events
 - 2011 Southwest cold weather event
 - 2012 NERC submitted SAR for standard, rejected
 - 2014 Polar Vortex
 - 2018 South Central US Cold Weather event
 - 2021 Texas / Southeast cold weather event

2021 Texas / Southeast cold event

- Temperatures 25-50 degrees below average
- New record lows in Canada, US, and Mexico
- 5 times more natural gas generation than wind generation was lost due to cold.
- Critical pipeline equipment not identified as critical loads
 - Compressor stations blacked out

Fall out

- FERC, NERC Joint Inquiry into 2021 Cold Weather Grid Operations
- NERC Project 2019-06 fast tracked
 - Scheduled pulled up by about six months
- Many organization focusing on electric/gas
 - NERC Electric Gas Working Group
 - NERC Energy Reliability Assessment Task Force
 - NAESB Electric Gas Harmonization Committee

FERC, NERC Joint Inquiry into 2021 Cold Weather Grid Operations

- Established in Feb 2021 in response to the cold event in Texas and the Southeast
- Report is expected to be released in November 2021
- Anticipated focus on Natural Gas generation
- No word yet on recommendations

NERC Electric Gas Working Group

- Established after the 2017 Special Reliability Assessment: Potential Bulk Power System Impacts Due to Severe Disruptions on the Natural Gas System
- Stakeholder forum for all generator types
- Author guidelines, white papers, compliance guidance, etc. related to natural gas disruption considerations and risks
 - Trying to assess the effectiveness of their Reliability Guideline
 - Gas Study Design Basis Criteria

NERC Energy Reliability Assessment Task Force

- New Task Force established in Feb 2021
- Focus on fuel supply chain issues
- Developing new Planning Study requirements
 - Long and Mid term studies
 - Energy (MWh) vs. Capacity (MW)
 - Fuel Supply disruptions
 - Single generators and/or multiple generators feeding off the same pipeline

NAESB Electric Gas Harmonization Committee

- Established in Jan 2012
- Objectives: Revision/new policies, commercial solutions, or new/revised business practices
- Been meeting monthly after Feb 2021
- ½ the committee wants to explore action
- ½ the committee wants to wait for the FERC/NERC report for recommendation

NAESB Issues

- The FERC/NERC report is speculated to have recommendations focused on NERC standards and NERC has no influence of the Nat Gas pipeline industry
- NAESB does not have a reliability function over the Nat Gas pipeline industry, but solves problems via commercial solutions
- Without a FERC order, NAESB can do nothing
- Others on the committee disagree and think industry can start working on recommendations for known issues now