



Winter Ops Lessons Learned

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System Operations Subcommittee
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- At the March Operating Committee meeting Mike Bryson noted that PJM was reviewing lessons learned from the winter 2020 / 2021 period
- The following slides summarize some of the initial system operations related actions that we have identified

- Review our response to previous events and lessons learned and update procedures / manuals as needed.
 - 2011 Southwest Cold Weather Event, February 1-5, 2011
 - <https://www.ferc.gov/sites/default/files/2020-04/08-16-11-report.pdf>
 - FERC / NERC January 2018 Extreme Cold Weather Event Report
 - https://www.nerc.com/pa/rrm/ea/Documents/South_Central_Cold_Weather_Event_FERC-NEERC-Report_20190718.pdf
 - PJM Lessons Learned from the 2014 Polar Vortex

- Review existing processes and procedures related to load shedding including:
 - Processes and procedures for rotating load shed
 - Amount of load shed available before rotating becomes impractical
 - Critical load including gas pipeline system load and other cross sector dependent load
- Update M-13 as needed

- Review existing cold weather preparedness activities such as the pre-winter survey and address any gaps
- Validate low temperature operating criteria/limits for each generating unit as well as the process for updating and maintaining the information
- Future Generation Winterization NERC Standard

- Work with gas industry to understand weatherization practices and minimum critical temperatures
 - Pipelines
 - Production facilities
 - Processing facilities

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