

NERC Information Resources on Cold Weather Preparation and BPS Impacts

(as of 2/11/2021)

NERC has been collecting and sharing information on cold weather preparation and BPS impacts for years via Webinars, Special Reports, Lessons Learned, Failure Modes & Mechanisms, and other resources.

Version 3 of the [Generating Unit Winter Weather Readiness Reliability Guideline](#) was approved by the RSTC at the end of 2020. The changes between versions 2 and 3 were discussed in the 2020 [Winter Weather Webinar](#).

Here are links to some cold weather resources:



Reports on major BPS-impacting Cold Weather events

[Outages and Curtailments during the Southwest Cold Weather Event of February 1-5, 2011](#)

[Winter Weather Readiness for Texas Generators](#), (2011)

[January 2014 Polar Vortex Review](#)

[The South Central United States Cold Weather Bulk Electric System Event of January 17, 2018](#) (There are a number of 'sound practices' from the industry, starting on page 100.)

Other Cold Weather Reports and Training Materials can be found [on this site](#).

Cold weather related Lessons Learned:

[LL20110902 Adequate Maintenance and Inspection of Generator Freeze Protection](#)

[LL20110903 Generating Unit Temperature Design Parameters and Extreme Winter Conditions](#)

[LL20111001 Plant Instrument & Sensing Equipment Freezing Due to Heat Trace & Insulation Failures](#)

[LL20120101 Plant Onsite Material and Personnel Needed for a Winter Weather Event](#)

[LL20120102 Plant Operator Training to Prepare for a Winter Weather Event](#)

[LL20120103 Transmission Facilities and Winter Weather Operations](#)

[LL20120901 Wind Farm Winter Storm Issues](#)

[LL20120902 Transformer Oil Level Issues During Cold Weather](#)

[LL20120903 Winter Storm Inlet Air Duct Icing](#)

[LL20120904 Capacity Awareness During an Energy Emergency Event](#)

[LL20120905 Gas and Electricity Interdependency](#)

[LL20180702 Preparing Circuit Breakers for Operation in Cold Weather](#) (also [2018 Webinar w/FMM](#))

[LL20200601 Unanticipated Wind Generation Cutoffs during a Cold Weather Event](#)

[LL20201101 Cold Weather Operation of SF6 Circuit Breakers](#)

Winter Weather Webinars from 2012 – 2020 can be found [on this site](#).

Annual Winter Reliability Assessments 2003/2004 thru 2019/2020 can be found [on this site](#).