



PSO Generation Winterization Process Improvements

PSO Actions & Event Timeline

2011-2016

PSO reviewed and enhanced winter preparation procedures based on recommendations/lessons learned from both the Southwest Cold Weather Event of February 2011 and the Polar Vortex event of January 2014.

January 2018

Severe cold weather event impacted South Central United States

June 2019

NERC issued a Standard Authorization Request (SAR) [Project 2019-06](#) titled “Cold Weather” to address the recommendations in the FERC and NERC Staff Report titled “[The South Central United States Cold Weather Bulk Electric System Event of January 17, 2018](#)”

PSO Actions & Event Timeline

February 2021

Severe cold weather event Uri impacted South Central United States

March – August 2021

- PSO standardized the process and approach to cold weather planning for all generating assets to be better prepared for the winter of 2021-2022.
- Cold weather generating asset weaknesses exposed during the February event were evaluated with counter measures identified and implementation plans developed.”

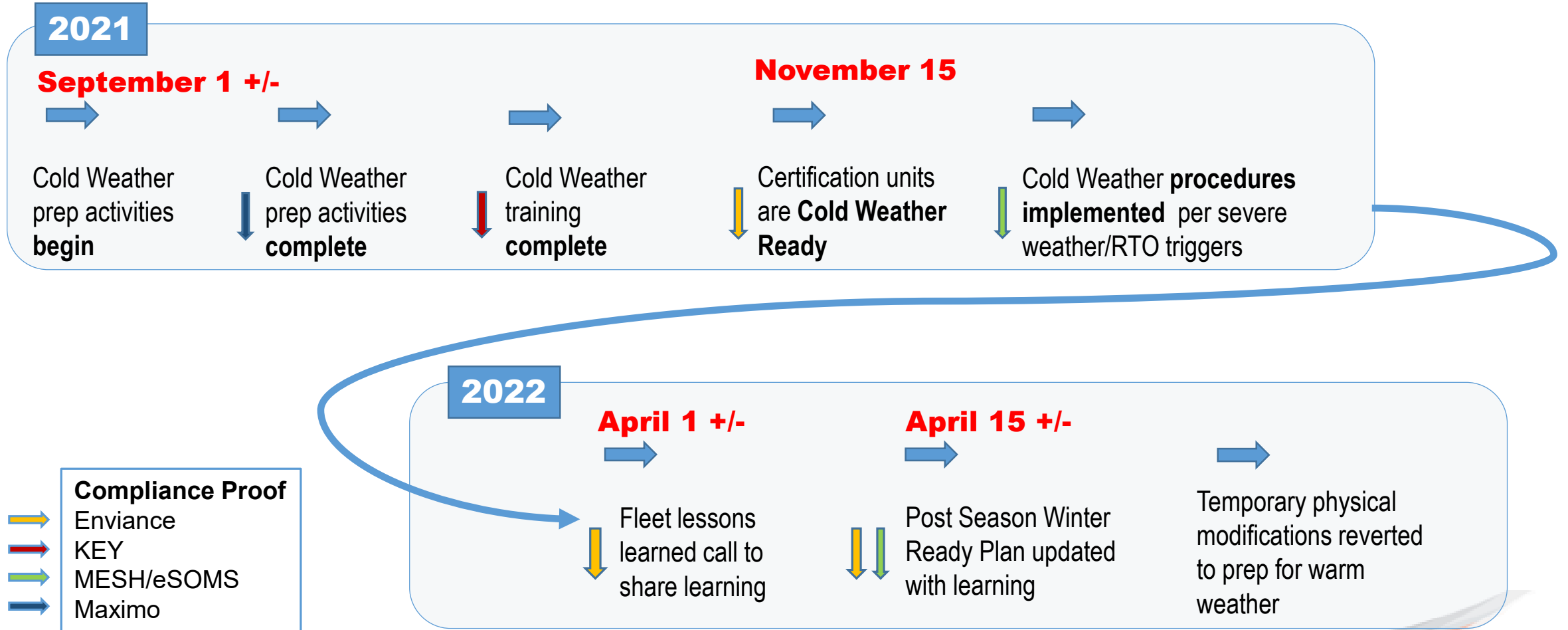
August 2021

New cold weather standards from [NERC Project 2019-06](#) were approved with an effective date of April 2023. (PSO’s standardized process, described above, was designed to meet this standard before the winter of 2021-2022)

November 2021

NERC issued a SAR [Project 2021-07](#) Titled “Extreme Cold Weather Grid Operations, Preparedness, and Coordination” to address the recommendations in the FERC and NERC Staff Report titled “[The February 2021 Cold Weather Outages in Texas and the South Central United States](#)”. This SAR is currently under review which includes the 9 recommendations made in the referenced staff report.

Generation Facility Cold Weather Preparedness Process



Generation Facility Cold Weather Preparedness Process

Each facility has a “Cold Weather Preparedness & Operation Plan” that includes:

Site Cold Weather Liability Review

Confidence of Unit Availability Due to Cold Weather

Cold Weather Operational Matrix

Site Winter Pre-season Preparedness Activities

Cold Weather Preparedness Training

Certification of the Facility Being Cold Weather (Winter) Ready

Cold Weather Forecasting

Cold Weather Operating Procedures

Cold Weather Lessons Learned and Plan Updates

Questions?

