

Ensure the Integrity of Your Electrical Grid and Infrastructure

Effectively Prioritize Your Vegetation Management to Reduce Risk



Map key:

Vegetation grow in violation

Vegetation fall in violation

Vegetation trimming not required

As a Utility, Grid Reliability is Critical and Relies on:

• A strong structural engineering foundation

Minimization of outages due to clearance viola-

tions (ground, vegetation and other obstacles)

Mitigation of fire risk from overhead lines

Power Line Systems offers a solution to Grid Reliability

Power Line Systems' PLS-CADD is the industry's de-facto design software to help utilities ensure grid reliability in a practical, cost effective and efficient manner, with significant social and economic ROI.

BENEFITS OF POWER LINE SYSTEMS (PLS-CADD)

Risk Assessment and Mitigation

PLS-CADD enables a utility to enhance the risk assessment of its grid:

• Wires move with temperature, wind and ice, and PLS-CADD assesses weather in tandem with structural considerations

• Field solutions that only measure static clearances do not consider the effects of wire movements and structure deflections under a variety of weather conditions

• Vegetation near structures may not need to be cleared to the edge of the right-of-way, while vegetation at midspan outside of the right-of-way may pose potential risks

Grid Reliability

Many lines were constructed decades ago, making their structural integrity a concern. PLS-CADD can help utilities:

• Effectively evaluate the structural integrity of your entire overhead line grid

• Rapidly identify, classify and prioritize a pole replacement program to ensure poles remain standing after a storm

• Analyze structures based on NESC, GO95 and ASCE codes and standards, including the changes in wire tensions due to temperature, wind and ice effects, as well as structure deflections

Practicality, Cost Effectiveness and Efficiency

With a proven technology solution and years of experience, PLS-CADD can help utilities:

- Rapidly identify and classify vegetation encroachments or trees that may fall into your lines
- Avoid the huge expense of blindly clear cutting your entire right-of-way of your entire grid
 Prioritize encroachments to aggressively tackle the most critical violations first

Tried and Tested Technology

Power Line Systems has a proven technology to ensure the integrity of a utility's grid and infrastructure.

• Power Line Systems' PLS-CADD technology has been the industry standard for 30 years with frequent software updates

• In 2010, the North American Electric Reliability Corporation (NERC) mandated that all lines 100kV+ be reassessed, and PLS-CADD has been the de-facto standard for this assessment with information from LiDAR surveys.

For more discussion, see https://www.powline.com/technotes/ Wildfire_Risk_Assessment_Using_PLS-CADD.pdf For more information: https://www.powerlinesystems.com

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