

DON'T MISREAD YOUR SAG & SWAY

**ACQUIRE
ANALYZE
ANSWER**

NV5 Geospatial puts accurate maximum loading and blowout conditions at the fingertips of your field inspectors, ensuring vegetation clearance risks are not overlooked.

THE CHALLENGE

Utilities frequently utilize inspectors to assess minimum vegetation clearance distances (MVCD) across their transmission system to prevent flashover and comply with NERC FAC-003-3 R6. When they deploy crews to the field, it can be difficult to accurately visualize how conductors move under different loading and wind conditions, which has recently resulted in incomplete management activities and NERC violations at some utilities. The challenge utilities are now asking themselves is how do we enable our inspectors to understand and consider maximum sag and sway of conductor locations in the field?

THE SOLUTION

NV5 Geospatial can build accurate PLS-CADD models and assess clearances under different loading and weather conditions using existing or newly acquired lidar. NV5 Geospatial can generate GIS vectors easily ingestible by mobile platforms and readily displays clearance measurements and wire footprints under different loading and weather conditions. NV5 Geospatial's Sag & Sway results can be summarized at thirds of each span or customized to your preferred intervals. We provide deliverables in various formats, including SHP, GDB, KMZ, and/or Spreadsheet formats, making the data easily actionable.



Deliverables Include

SWAY

- Sway Analysis performed at 1/3 or greater span segment precision will measure centerline and 'no wind' conductor offsets for NESC Blow Out or other wind conditions that are delivered as a linear or polygon features of the 'sway footprint'

SAG - Ground Clearance

- Ground to Conductor Clearance for As Flown, 'maximum operating temperature', or other loading conditions summarized to minimum value per span at 10% per span (10 values) or larger span segments