Introduction

XP-RS is a company that focuses on providing specialized geospatial data and engineering services to the electric utility industry. Geospatial data and products are invaluable tools in the effective design & management of transmission infrastructure. XP-RS specializes in providing custom mapping and data solutions for the design, construction and upgrade of electric transmission lines. Whether you require a comprehensive PLS-CADD model for analysis of and existing line or a comprehensive survey new line design project, XP-RS is able to help. Regardless of project size our goal is to tailor our services to meet your needs.

Industry Experience

The US-based aerial survey project team established by XP-RS has significant experience in the collection and processing of geo-referenced data that is to be used for transmission line design. Our key individuals and data processors have thousands of miles of project experience and industry-specific degrees that include Civil Engineering, Surveying and Remote Sensing. We understand your engineering needs.

Appropriate Technology

XP-RS believes that each LiDAR survey project should be approached according to the end-user’s needs. Our engineers and technicians are committed to optimizing the potential of Airborne Laser Scanning for each and every project. While helicopters usually provide the most flexible acquisition platform, XP-RS can also offer fixed-wing acquisition using the same LiDAR sensor technology.
**Assured Accuracy**

All projects are planned to meet or exceed the client’s need for spatial accuracy. Our data collection methods provide for rigorous ground-based field verification which is undertaken by our field crews. This accuracy audit is delivered as part of the end product. Typically, LiDAR surveys have a spatial accuracy of 0.5ft in X, Y & Z. Depending on the project, this specification can be tightened or relaxed.

**Deliverables**

A typical LiDAR survey project for an existing line survey is a ready-to-design PLS-CADD model composed of the following deliverables:

- Filtered digital elevation model (DEM, DTM, TIN)
- Feature-coded topographical feature (point data)
- PLS-CADD structure models
- Digital color orthophotos – 300ft-2000ft wide in ECW format
- CAD plan showing topographic features in DXF and DWG/DGN formats
- High resolution photos of each transmission structure
- Forward looking digital video of the entire right of way
- Raster intensity maps (color or grayscale)

While most of the data created by XP-RS is targeted at PLS-CADD, other design packages such as TLCADD are also supported. XP-RS can also provide data suitable for GIS from its LiDAR data deliverables.

**Geographic area**

XP-RS provides services throughout the continental United States & Canada

**Contact Us**

To discuss your LiDAR Survey and/or geospatial data needs please contact us directly:

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