



**INSPECTION
SERVICES**



UTILITY ASSET INSPECTIONS FROM THE INDUSTRY EXPERTS

Advanced Aerial Inspections with Engineering-Driven Insights





PLP INSPECTION SERVICES

PLP Inspection Services delivers advanced aerial inspections and asset intelligence solutions for electric utilities and critical infrastructure. Backed by more than 75 years of experience designing and manufacturing transmission, distribution, substation, and fiber optic hardware, PLP transforms inspection data into engineering-driven insights—helping utilities identify risks, prioritize maintenance, and improve system performance. From data collection to final analysis, PLP delivers clarity you can act on.

ENGINEERING EXCELLENCE SINCE 1947

Founded in 1947 and headquartered in Cleveland, Ohio, PLP is a global leader in designing, manufacturing, and supplying high-quality hardware and systems for electrical power transmission, distribution, and fiber optic communications infrastructure.

With manufacturing facilities across the United States and worldwide, PLP revolutionized the industry with its invention of preformed helical Armor Rods, which protect and reinforce overhead high-tension power lines. Over the decades, PLP has expanded to offer a broad portfolio of precision-engineered solutions that anchor, support, protect, terminate, splice, and control motion in cables and conductors—building stronger, more reliable networks for utilities and service providers around the world.

SERVICE OFFERINGS



VISUAL INSPECTIONS **END-TO-END INSPECTION SOLUTION—** **FROM DATA CAPTURE TO INSIGHT**

PLP delivers comprehensive aerial inspections, managing every phase from data collection to engineering analysis and reporting. This full-service approach ensures consistent, accurate results and actionable insights that support maintenance planning and system reliability.



DATA MANAGEMENT & ANALYSIS **MAXIMIZE THE VALUE OF YOUR EXISTING** **DRONE PROGRAM**

For utilities already capturing their own data, PLP provides expert data management and analysis services. We organize, process, and evaluate large volumes of imagery—transforming raw data into clear, prioritized insights without the burden of managing it internally.



LINE MONITORING **CONTINUOUS INSIGHT BEYOND** **VISUAL INSPECTION**

PLP's Aeolus® Line Monitoring platform measures and analyzes wind-induced conductor motion, detecting both aeolian vibration and high-amplitude events that can lead to long-term hardware damage or failure. The system delivers continuous, real-time performance data through an integrated wireless data hub and a web-based interface for remote access and analysis.

VISUAL INSPECTIONS OFFERED:



Transmission & Distribution



Substation



**Post-Storm/
Emergency Response**



As-Built Audit



Joint Use Audit



Wind Generation



Thermal/IR Imaging



**Lidar Survey &
Post-Processing**



PROCESS DELIVERABLES

RELIABILITY CLASSIFICATION SYSTEM

The PLP classification system rates and scores Reliability Concerns (RCs) to standardize how issues are cataloged across reporting formats. The RC system uses a Level 1 to Level 5 rating scale, with Level 1 (Critical) representing only the most severe reliability concerns. The priority levels are then used to calculate a Reliability Score (RS) for each asset.

PLP STANDARD RELIABILITY CONCERN (RC) PRIORITY CLASSIFICATION SYSTEM

Priority Level	Classification	Action Required?	Description
1	Critical	YES	A severe condition is occurring or imminent public safety concern
2	Major	YES	Evidence of significant damage limited asset life expectancy
3	Poor	YES	Evidence of damage within serviceable life parameters
4	Minor	NO	Evidence of normal wear or damage
5	Good	NO	No visible evidence of wear or damage

PLP RELIABILITY SCORE (RS) GRADING SCALE

RS Score*	Reliability
1	Critical
2	Low
3	Low to Medium
4	Medium to High
5	High

$$*RS = \left[1 - \left(\frac{\text{Weighted RCs}}{\text{Total Structures}} \right) \right] \times 100$$

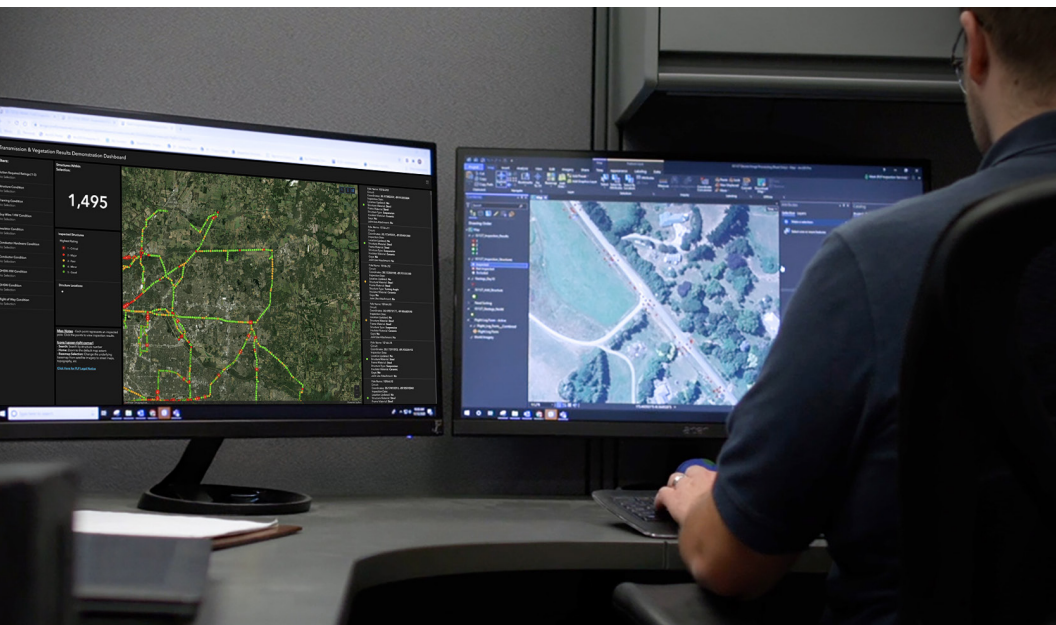
As each client may have their own internal classification system, PLP remains flexible on what system is applied to inspection results. PLP can adopt a client’s rating system to better integrate deliverables into the existing repair workflow.

REAL-TIME DASHBOARD

The Real-Time Inspection Dashboard (RTD) improves client visibility and efficiency. It is a robust, client-focused communication platform for every inspection in which PLP collects data. By leveraging this intuitive tool, clients gain seamless, real-time insights into field operations, eliminating the need to allocate internal resources for on-site accompaniment and enabling focused oversight without disrupting daily workflows.

All essential inspection details are centralized and accessible within the dashboard, including:

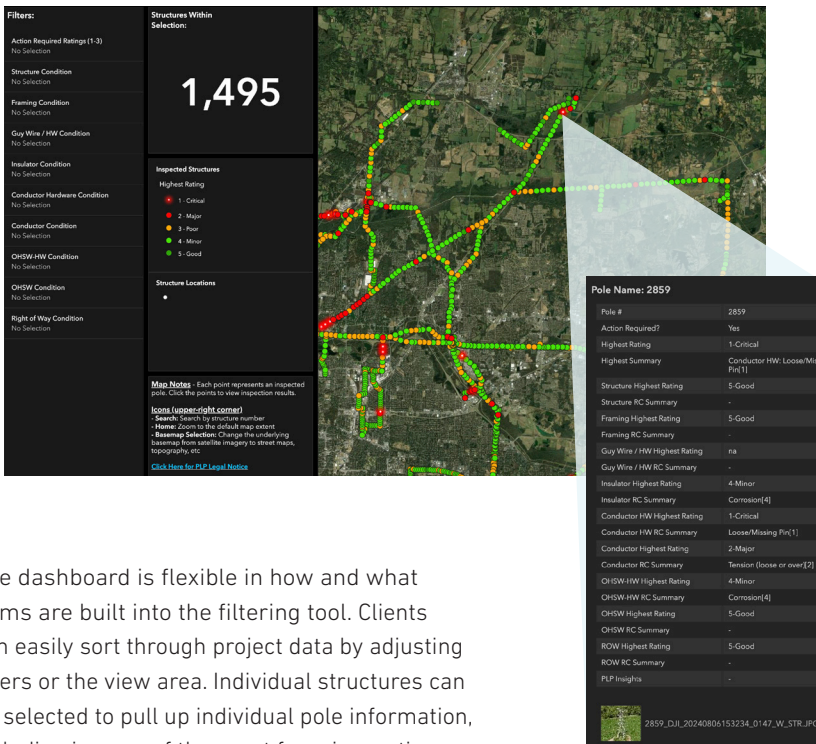
- Alerts for critical reliability concerns and public safety risks
- Real-time metrics on inspection progress and milestones
- Daily operational summaries and field notes
- Key points of interest: access routes, environmental hazards, logistical considerations



PROJECT DELIVERABLES

GIS MAPPED RESULTS DASHBOARD

Once data analysis is complete, PLP provides clients with a secure, customizable GIS-mapped results dashboard that transforms inspection data into actionable insights, enabling users to filter data and easily identify specific asset or component issues. Delivered through a dedicated client portal, it serves as the primary interface for accessing and managing project results.



The dashboard is flexible in how and what items are built into the filtering tool. Clients can easily sort through project data by adjusting filters or the view area. Individual structures can be selected to pull up individual pole information, including images of the asset from inspection.

Integrated with the repair order workflow, the dashboard helps customers quickly isolate issues, visually verify asset conditions, and create accurate work instructions before dispatching field crews.

SPREADSHEET RESULTS

In addition to the dashboard, PLP delivers a comprehensive spreadsheet detailing inspection results and cataloging all relevant overhead asset data. Assets are conveniently organized by structure number and include a complete inventory and condition assessment of pole line hardware, including joint-use attachments, mid-span and conductor concerns, and vegetation encroachment notes.



REPAIR TRACKING MOBILE APP

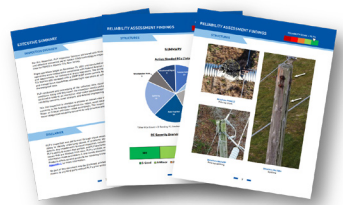
Access to the Repair Tracking Mobile App powered by ArcGIS is included with every inspection project, giving lineworkers a real-time, intuitive tool to streamline field operations and maintain accurate asset data. Crews can view pole assessments, photos, and reliability concerns on their mobile devices, then update repair status, add notes, and upload verification photos on the spot—driving faster decisions and stronger coordination between field and office teams.

ARCHIVABLE INSPECTION DATA

All collected images are delivered via Microsoft Azure cloud storage, or per client requirements. Individual file names include circuit and pole identification numbers, imagery data files are organized in folders by pole ID, and annotated images highlighting any Reliability Concerns are also provided within the folders.

OPTIONAL SUMMARY REPORT

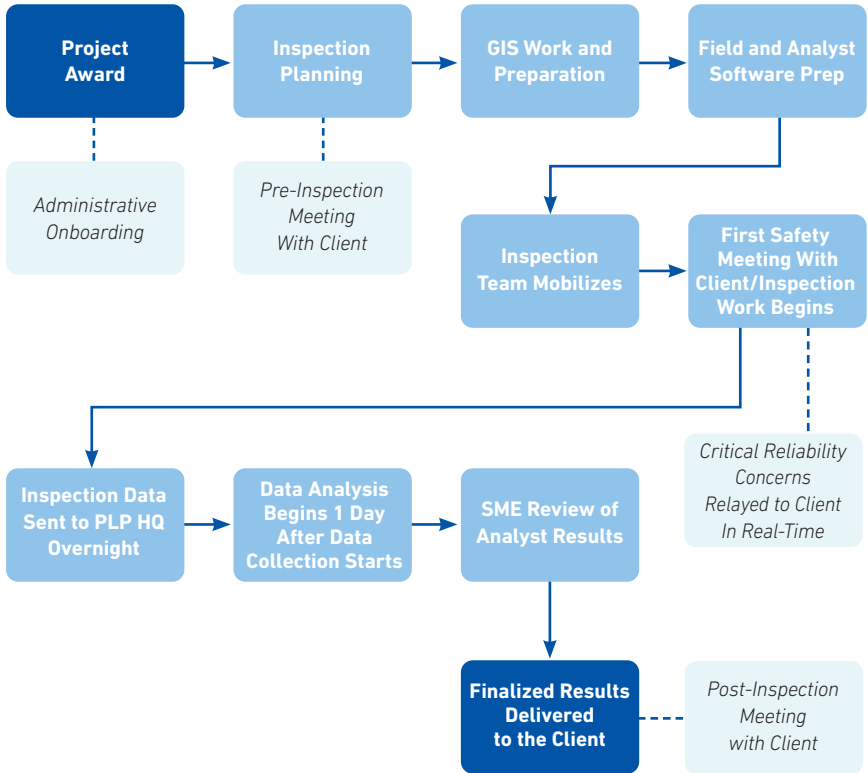
PLP can also provide the client with an optional summary PDF report of the inspection results. This report is designed to provide a high-level overview of the inspection findings, including examples of the Reliability Concerns (RCs) identified during the inspection and supporting visual metrics.



PROJECT INSIGHTS

EXAMPLE VISUAL INSPECTION PROJECT

From the point of award to completion



PROJECT REFERENCES





CONTACT US



Please contact us if you would like to learn more about PLP Inspection Services and how it can help your utility with its maintenance inspections for distribution, transmission, or substation assets.



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© 2026 Preformed Line Products
Printed in U.S.A.
EN-ML-1292-5
04.26.1.5C