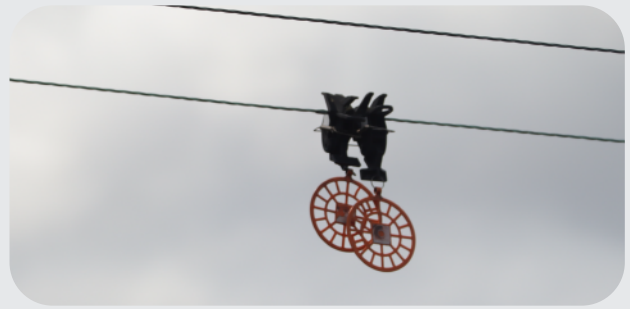


Enhancing Aerial and Bird Safety at KMTL

Aviation Marker Balls Increasing Visibility for Aircraft

To mitigate risks for low-flying aircraft and helicopters, aviation marker balls have been installed on overhead conductors, particularly in areas near airports, flight corridors, and critical crossings such as rivers and valleys.



- 1 Made from durable ABS plastic, they are designed to withstand harsh environmental conditions.
- 2 Available in alternating colours—aviation orange, white, and yellow—to ensure maximum contrast against the sky.
- 3 Measuring 20 to 36 inches in diameter and weighing approximately 6.5 kg, these marker balls provide effective aerial warning signs without adding undue weight to transmission lines.

Protecting Birds and Infrastructure

Wildlife protection remains integral to our approach to sustainable infrastructure, helping our operations align with ecological well-being. To minimise the risk of bird collisions, we've installed bird diverters across KMTL's transmission corridors. These highly visible markers help birds identify and avoid power lines mid-flight, significantly lowering the chances of impact.

Innovations in Maintenance to Protect Infrastructure

At KMTL and STPL, we have introduced a series of innovative maintenance practices that strengthen the resilience of our assets.

Laser Range Finder for Improved Safety and Reliability

At KMTL and STPL, we have integrated an industry-first Laser Range Finder technology to measure electrical clearance between conductors and nearby vegetation. It identifies potential risks with ± 4 cm (1.6 in) accuracy, preventing safety-related incidents before they arise.

Enhancing Insulator Performance with Specialised Cleaning Gel

Contaminants, pollution, and moisture can significantly impact insulator performance and lead to flashovers and reduced reliability. During our Annual Shutdown work at KMTL, we deployed a specialised insulator cleaning gel to remove deposits and prevent contamination-related failures. This unique gel-based solution acts as a cleaner and a protective barrier so that high-voltage insulators remain in optimal condition.

