

Case Study

IRISS Reaches For The Sky With UK Automotive Manufacturer to Improve Preventative Maintenance Strategy



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Overview:

One of our clients, a UK Automotive Manufacturer with a long and storied history, recently suffered an arc flash incident on a transformer which resulted in the cable connection door being dislodged by the significant pressure generated during the incident. Fortunately, no one was killed or injured but it was a wakeup call that highlighted the need for a full and cohesive preventative maintenance strategy and safety review.



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With increasing demands being placed on production by growing global sales, downtime is a costly luxury that players in the automotive industry simply cannot afford.

After evaluating the most appropriate technologies available, it was decided to use a two stage approach using both partial discharge monitoring (ultrasound) and infrared thermal imaging. Due to the size and complexity of the site, it was decided that the most vulnerable components were the 11KV substations around the facility. After evaluating possible solutions available, IRISS IR windows and PD (ultrasound) ports were selected because they offered:

- Rugged reliability ideal for a 24/7 automotive manufacturing environment
- Solutions that were ideal for both the switch connections and the incoming cable crutch, as these two areas had been identified as the most vulnerable within the system.
- Technical superiority against other available solutions, as the client had previously suffered lens failures on competitor's products due to vibration & water ingress.
- Lifetime warranty on IRISS reinforced polymer IR windows means lowest possible on-going maintenance costClass leading ROI
- Class leading ROI
- Enhanced inspection process safety

To ensure optimal safety for their personnel, the client opted for the installation and training service that only IRISS can offer as an approved safe contractor and approved infrared thermography training provider.

The installation service was completed outside of manufacturing hours during a Christmas shutdown further demonstrating the IRISS commitment to outstanding customer care.

Remembering the first rule of business is not the maximization of profit but the prevention of loss, the client now has implemented a solution that allows his personnel to safely and efficiently perform routine inspections on their critical electrical infrastructure



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