

Project Profile

Preventing costly breakdowns through energised electrical maintenance




Daventry Engine Plant

Cummins UK provides and distributes a range of new equipment and full aftermarket support for its engines and generator sets, from six locations across the UK. Its large site at Daventry, Northamptonshire was a new customer for adi TEGG in 2015.

"The service provided by adi TEGG Service is exemplary. Using adi TEGG Service has allowed us to have regulatory electrical checks performed without causing any downtime to our production facility. During the inspection, some equipment issues were highlighted to me that if left could have caused significant production downtime. Early detection of these problems allowed me to plan the repair works out of hours and ensure production wasn't affected."

Paul Freelove, Electrical Engineering Manager, Cummins UK

adi TEGG Service provides:

- A program of energised electrical maintenance and testing that does not require system shutdown
- A detailed analysis report, broken down into area and machine, with clear identification of faults found
- Full compliance to BS7671:2008 (2015)

Get in touch:

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The Opportunity

Following routine audits, it was discovered that previously 'visual only' inspections had been done on the Daventry plant's electrical system and that some areas had not been tested.

adi TEGG Service was asked to do a trial inspection of one warehouse onsite in order to assess our proficiency, capabilities and cost effectiveness. The customer was particularly interested in the potential benefits of doing energised supply testing, without any supply interruptions.

The tests included: ultra-sonic analysis, thermal imaging surveys, power quality analysis, phase balance and load measurements, earth loop impedance and prospective fault current tests.

The Solution

The trial report was very well received and as a result, adi TEGG Service was asked to complete a full site electrical maintenance program. Previously, this had taken over a year to complete, but adi TEGG Service was able to complete the work within five weeks.

A tremendous achievement, saving at least a year's work and an annual testing contract is now being discussed.

The Benefits

- Energised testing is significantly quicker and is achieved without any supply interruptions, maintaining business continuity.
- Massive operational cost savings (40%+) in manpower, resources and time for completion since the work was achieved in just over a month.
- No out of hours or premium rate working required.
- Risk management by finding previously undetected critical faults.
- Compliant with BS7671:2008 (2015) and the Electricity at Work Act (1989).
- Comprehensive report submitted after every testing, including a searchable database.
- Large site fixed wire testing process can now be achieved within months rather than years.