



**Frederick Thomas**  
ELECTRICAL & MAINTENANCE LTD

**SPECIAL  
TESTING  
SERVICES**

CHARLTON ATHLETIC FC, LONDON

**LEISURE**

Charlton Athletic has been South-East London's most successful football club over recent years. Since 1992, 'The Valley' has been gradually improved to become a modern Premiership standard stadium with a capacity of 27,000.



As well as being one of London's larger clubs, Charlton Athletic FC also plays a very important part in the local Community. The Valley hosts a college, corporate entertainment and health club facilities and provides tours for local school children. CAFC's Care in the Community Programme also does a great deal to help young local people from disadvantaged backgrounds.

FTE&M Special Testing Services was seen as the ideal way to safeguard the Stadium and its valuable public-use facilities, as a complement to

the IET fixed wire test. Our programmes exceed all Local Government and Insurance Company requirements for IR testing.

The electrical system can only be fully tested when it is under full load on match days, with catering facilities and public areas being fully utilised. This meant careful planning and co-ordination with the Stadium Management. The total time for the full-load test, the only condition that allows for meaningful results when performing Infrared and Ultrasonic testing, was approximately four hours. All switch rooms were prepared, labelled and sealed from potential intruders before the crowds started to arrive at noon.

The floodlighting control gear was also separately tested on another day.

No matter how difficult, our staff will ensure a successful and productive test programme.

As a Client focused company, we ensure our programmes are flexible enough to meet relative needs. We spend time planning the test, and afterwards deliver a detailed report, both in hard copy and CD ROM format, together with full recommendations to help address any issues found.



\*On the first day of testing, Charlton Athletic beat West Ham United 4-0, this is the one result we can't guarantee will be repeated at your sports facility.



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## SPECIAL TESTING SERVICES

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A tight deadline does not mean corners are cut; the safety of our staff and the uninterrupted operation of the facilities is always our number one priority.

Having performed an Ultrasonic scan of the panel first as an 'early warning' safety precaution, two of our Technicians are shown below accessing the area supplying power to three large circuit breakers. Direct line of sight to critical areas of the switchgear is essential to obtain accurate IR temperature measurements.



But isn't this going to cost my Organisation a small fortune, you may be asking yourself? The answer is that over time FTE&M Special Testing Services can save a great deal more than it initially costs, in fact it can have a positive effect on the annual budget. The service provides organisations the luxury of being able to plan ahead and replace any components that show up as a risk before they fail and cause disruption to the facilities, which inevitably results in expensive call out charges.

FTE&M Special Testing Services greatly reduces the risk of electrical fires, caused by overheating components being undetected. An annual performance test on the critical components in an Electrical Distribution System can extend its useful working life by as much as 30%. The majority of our test programmes are performed with the system fully energised; you carry on with your job while we carry on with ours.

A meeting could turn out to be one of the soundest investments your Organisation makes this financial year.

REGISTERED MEMBER



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