



**Frederick Thomas**  
ELECTRICAL & MAINTENANCE LTD

**SPECIAL  
TESTING  
SERVICES**

CHARING CROSS HOSPITAL, LONDON

## HEALTH



Charing Cross is a large NHS hospital in West London, delivering a wide range of medical services from Cancer Treatments through to Intensive Care.

In line with NHS Policy, the Standby Generators at Charing Cross Hospital are tested once per month, on full load, at strictly controlled times. All personnel in critical areas need to know exactly when transfer from mains power to standby ( and back ) will occur, in order to be prepared for slight fluctuations in their power supplies.

The FTE&M Special Testing Service Programme was tailored and carefully planned to meet these deadlines, to ensure all critical standby switchgear components were fully tested by the time utility power was restored.

The total time for the full-load test, the only condition that allows for meaningful results when performing Infrared and Ultrasonic testing, was two hours. This meant all component nameplate data was entered into our software system, and panels were fully prepared, before starting the test.

As a Client focused company, we ensure our programmes are flexible enough to meet needs.

We spend time planning tests, and afterwards deliver a detailed report, both in hard copy and CD ROM format, together with full recommendations to help address any issues found.





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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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