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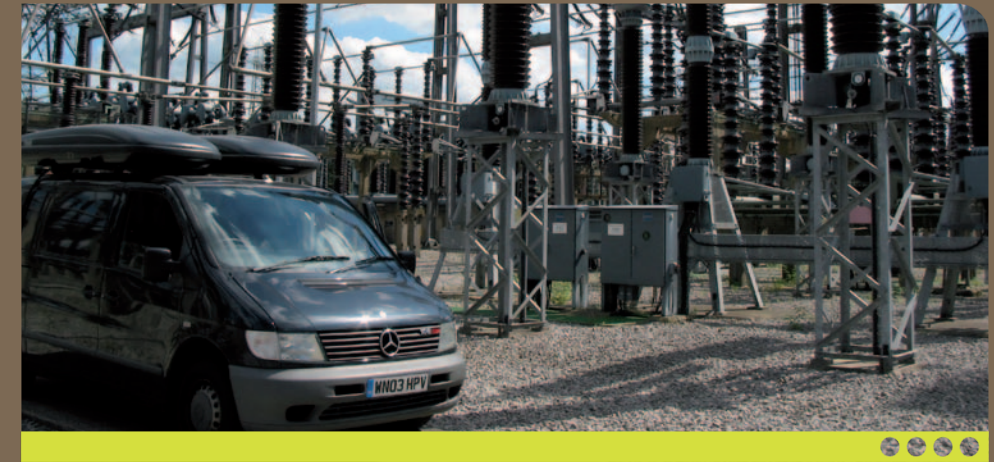
RFI SURVEYS

FOR ACCURATE LOCATION OF PARTIAL DISCHARGES

Company registration SC314847



elimpus



Elimpus is a dynamic, newly formed spin-out company from the University of Strathclyde providing mobile radiometric partial discharge monitoring of energised high voltage equipment. Utilising the Radio Frequency Interference (RFI) emitted by stressed insulation, Elimpus' technology has provided RFI surveys to the electricity supply industry and the Radiocommunications Agency for over four years.

We are world leaders in non-invasive radiometric location of partial discharges, providing service and advice with a unique, integrated approach that can help your organisation in the cost-effective management of its assets and reduce the risk of outages.

Our experience of problems affecting the international high voltage community means we have an in-depth understanding of your needs and goals. Our engineering team has gathered significant technical knowledge and experience through our involvement with EPRI and electricity utilities world-wide.

WHY PERFORM RADIOMETRIC PARTIAL DISCHARGE MONITORING?

The measurement of partial discharge conditions within substations is critical to anticipate equipment failure, prevent outages, ensure the safety of site staff and schedule maintenance. Even the failure of relatively inexpensive equipment can cause the disconnection of entire circuits with great financial implications.

A survey of all energised plant within your substation can be conducted in, typically, a few hours using our non-invasive, mobile system which requires no special operating procedures or outages. Our system is capable of locating the origin of partial discharges sources within a substation – even if there are multiple sources present. Our advanced, automated algorithms are capable of characterising and trending discharge sources to provide early warning of insulation faults.

SUBSTATION SURVEYS

Our specialised, partial discharge locating system is installed in a commercial vehicle; all the equipment has been specifically designed for substation use. To survey a compound, the vehicle is driven around the perimeter of electrical equipment – usually the site roadways are adequate for this purpose – to monitor the local radio frequency environment.

Unique aspects of the monitored signals are used to identify partial discharges and to locate their origin from plant within the substation. A typical measurement sequence involves calibrating the system and driving around a site for a short period to complete a full area scan. If a source of partial discharge is found, data will be recorded in order to compare with our extensive database of faults. Following the survey, we will write and send a detailed report of our findings.

WEB-BASED DATABASE

For an interactive demonstration, log on to our website as a guest using password 'dEm0s0ft'

If your company is registered with our website you can gain access to any reports you have commissioned from Elimpus through our secure web-based application available 24/7. Survey reports are usually available online within 2–3 working days.