



Technical Diagnostic Services

No-Outage Testing Services

Now Offers Partial Discharge, Corona Survey and Circuit Breaker Vibration Signature Testing Services

Preventative Surveys Prevent Tomorrows Problems

TDS provides Partial Discharge and Corona Surveys, as well as Circuit Breaker Vibration Signature Testing to improve operations, mitigate losses and improve safety.

For detailed information - Click-on the links below

[Corona Surveys](#)

[Partial Discharge Surveys](#)

[Circuit Breaker Vibration Signature Analysis](#)

Contact Us Today to Avoid Tomorrows Problems

For more information on our services, visit our website at: www.technicaldiagnostic.com
or call us at 817.465.9494

If you have high voltage outdoor substation equipment, there is no better way to determine if you are at risk of a flashover or other type of failure, than performing a **Corona Survey**.

Corona is responsible for the generation of ultraviolet radiation, ozone, acids, heat, mechanical erosion through ion bombardment, resulting in, electric power loss and electromagnetic interference with radio communications. Corona byproducts destroy insulation, while remaining invisible to the eye and lead to catastrophic failure.

Facilities that have medium voltage equipment will also benefit greatly by inspecting the cable terminations, switchgear insulators, dry-type transformers and other equipment for damaging corona activity.

A **Partial Discharge Survey** is a very efficient method of detecting potential insulation problems within switchgear, switches, dry-type transformers, cables, busduct and other equipment.

This technology allows a large amount of equipment to be checked, in a very short time. The results of this phase of testing will identify specific areas that will need further detailed analysis using Level II technology.

The Level I survey is also a good safety tool for detecting potential problems before conducting switching activities.

The advanced software, utilized with the Level II Analysis, records the equipment signals and analyzes the results, in detail, so corrective actions can be recommended.

Circuit Breaker Vibration Signature Analysis allows critical "first trip" timing information to be measured, which is the most important information related to breaker operation under real conditions.

This developing technology is used to determine circuit breaker condition during "first trip" operation. Sensors that detect vibration are applied to the circuit breaker, just prior to a maintenance outage and the breaker is then tripped. Special software records the resulting waveforms, which are then compared to our breaker waveform data library, to detect problems related to mechanical defects.

TDS in partnership with No-Outage Testing Services, provides complete Substation Equipment Inspection Services as well as Certified Training Courses.

TDS is an international leader in providing test equipment, Startup and Commissioning Services, Measurement & Test Equipment and Technical Training services to the energy market.

www.technicaldiagnostic.com

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For complete information about our No-Outage Testing Services or our certification courses, please visit our website or contact:

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