



>>Innovative High Voltage Void-free Insulation Systems and Diagnostics

In a competitive market, with short development timescales and the drive to achieve high product reliability, the key to improved productivity and efficiency is an accurate optimised design. The AREVA T&D Research & Technology Centre can assist with your insulation systems development programmes and qualify your power equipment for service.

We provide a service in the HV testing of insulation materials and power equipment. You will have access to an extensive range of HV to UHV test facilities and our experts can carry out dielectric loss analysis, partial discharge (PD) detection, interpretation and diagnostic, but also specialist voltage withstand and impulse evaluation to a wide range of standards. We assess the quality of electrical insulation but can also develop and prototype void-free bespoke insulation systems for a wide range of power applications in T&D, Power, Traction and for Oil & Gas. In addition, we also undertake predictive life and accelerated ageing studies.

Our Main Facilities

- Full Faraday Cage 6m x 5m x 3m (H) up to 150kVac (*)
 - Direct Partial Discharge detection & analysis
 - UHF, acoustic probe and UV detection (partial discharge)
 - Lightning impulse to 300 kV (*)
 - Dielectric loss analysis
 - HVDC evaluation and development
 - Surge Arrester characterisation
 - New HV power PWM inverter insulation test facilities
 - Multifactor accelerated ageing and pollution testing
 - Forensic & failure investigation
- (*) for higher voltage requirements please enquire

Scope and Benefits

- ✓ Expert support and analysis, not simply Pass/Fail
- ✓ Short notice / Fast turnaround
- ✓ Wide experience in solid, liquid and gaseous dielectric HV systems
- ✓ Void-free, bespoke high performance insulation expertise
- ✓ Stress grading technologies

For further details

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