



High Current / High Voltage Testing

ASD presents a wide range of high current and high voltage testing service capabilities. All tests are performed in accordance to IEEE/IEC standards.

Service Target

Our services are offered to manufacturers, R&D centers, utilities and universities. We can verify a new product's design or the proper operation of an existing product. Our tests will verify the insulation credibility of the product and its ability to withstand the generated high voltages and currents.

Plan & Report

Our specialists develop a test plan in accordance to client's needs & applicable standards. Reports indicate the test purpose, standard, test parameters, measured values and results of each test. Temperature and humidity are noted when environmental factors may affect test results.

Services

- Arrester and Insulators Testing
 - Ground lead disconnect testing
 - Impulse Testing
 - Discharge voltage at 10 KA up to 100 KA
 - Recovery voltage to 40 KA
 - Wave shape (4/10, 3/90, 8/20 10/350 MS, 2 ms)
- Applied (Hi-Pot) Testing
- Testing of distribution transformers
 - No-Load loss test
 - Load loss test
 - Induced test
- Evaluation and analysis of transformer losses
- Load cycle test for under ground cables
- Load cycle test for cables' accessories
- High current Impulse testing
- High voltage Impulse testing
- Field testing: substation inspection
- Partial discharge testing
- Testing instrument transformers
- Testing and evaluation of dielectric materials
- Testing of bushings
- Testing of disconnecting switches
- Radio interference voltage (RIV) testing

Test Categories

- Current impulse
- Lightning impulse
- Voltage withstand test (full and chopped wave)
- Switching impulse
- 60 Hz voltage
- DC voltage
- Insulation Loss test
- Partial Discharge test
- Radio Influence voltage (RIV) test
- Capacitance and tan delta measurement
- Conformance to standards





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Test Equipment

Safety & Protection

Our highly experienced staff exerts all required safety and protection measures to insure reliable and risk free test services.

Automation Systems & Diagnostics, Inc

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Current Impulse Test Equipment

- Multi stage Impulse generator 150 KV
- Impulse generator 60 KV, 10 KJ
- Impulse generator 45 KV, 60 KJ

DC Voltage Test Equipment

- DC transformer: 150 kV, 100 mA
- Resistive voltage divider: 150 kV

Voltage Impulse Test Equipment

- Impulse generator: 1.1 MV, 65KJ
- Damped capacitive voltage divider
- Mixed (RC,R) voltage divider: 400 kV (lightning/switching impulse)
- Impulse Capacitor voltage divider: 1.6MV
- Digital oscilloscope



AC Test Equipment

- Test transformer 200 KV, 150 mA cont.
- Test transformer: 45 kV, 2.22 A Cont.
- Test transformer: 100 kV, 75 mA cont.
- 37.5 kVA, 400 Hz motor generator
- Capacitive voltage divider: 400 kV
- Damped capacitive voltage divider: 100 kV
- Mixed (RC,R) voltage divider: 400 kV
- Partial discharge detector
- Radio interference voltage (RIV) meter
- Indirect calibration voltage divider: 300 KV

