

All testing performed to strict MIL-STD, IEEE, IBC, UBC, NIST, Bellcore standards/methods under our 10 CFR 50 Appendix B Quality Assurance Program



CLARK

Dynamic Test Laboratory, Inc.

A Division of Clark Testing Group

Clark Dynamic Test Laboratory Calibration, Electrical, Field Testing, & Other Services



Clark Dynamic Test Lab is an independent testing lab that can provide comprehensive custom test programs including Electrical, Structure Borne & Airborne Noise, Load & Fatigue, Corrosion, Field Testing and Calibration Services. All Clark Dynamic calibration and testing services equipment are traceable to the National Institute of Standards and Technology (NIST). We are implemented to strict IEEE, MIL-STD, IBSC, UBC and Bellcore standards under our 10 CFR 50 Appendix B QA Program.



Calibration, Electrical, Field
Testing & Other Services



Capabilities

Calibration & Standards Laboratory

The Clark Dynamic Calibration & Standards Laboratory repairs and calibrates measurement and test equipment (MT&E) and maintains direct traceability to NIST Standards.

- Load Testing - #20, 000
- Gas Flow - 50 cu. ft. hr.
- Humidity
- Accelerometers
- Air Flow - 2,000 fpm
- Water Flow - 3 gpm
- Temp. - RTD
- Load Cells

Electrical Testing

Insulation Breakdown Resistance (Meggar)

- Leak Detection
- Hi-Pot: 10KVAC
- Current: 100 Amps AC/DC
- Voltage: 10KVAC or 20 KVDC
- Frequency Accuracy: 2 x 10⁻⁹
- Resistance Accuracy: 1% @ 1 MIL OHM
- 250 Megahertz Sinewave Generator
- 1000 DC. AMps Measured Capacity
- 30 Amps @ 50 Hz AC Current Capacity
- 8 Place AC/DC Volt Digital Measurement
- 30 Kilo-Volt Electrostatic Volt Measurements
- High Voltage to 15,000
- Amplitude
- Calibration
- Temperature and Humidity
- Temperature: 400 + C to -200 + C Range
- Constant Relative Humidity: 11% to 97%

Pressure Calibration

- Air Medium: High Pressure 7,500 psi.-0.1% accuracy
- Oil Medium: High Pressure 12,000 psi.-0.05% accuracy
- Water: Low Pressure 0 - 100"

Miscellaneous

- Weight: 0.1g to 16,000g
- Class Weights: 1/16 OZ to 30 lb. cap.
- Torque: Low <10 inch/lbs to High 600Ft./lbs
- Sound: to 140 DB Max

Load Testing

Clark Dynamic Test Lab performs load, structural & fatigue testing services on large components such as Aluminum light poles porcelain bushings & as small military connectors. The Clark Dynamic Test Lab has 50,000 # load capacity machine. Our lab measures deflection, stress, load and yield point. Utilizing calibrated load cells, strain gages and displacement transducers the lab can measure your equipment to determine maximum load strength.

Field Testing

- Vibration Excitation: 50 – 1,000lbs. Shakers
- Data Acquisition: Pressure, Acceleration, Velocity & Displacement, Strain Gage Measurement
- Digital and Analog recording
- Analysis – Fast Fourier & Transient Capture

Structure & Airborne Noise

- Sound Pressure Measurements
- Sound Power Measurements
- Structure borne Noise Measurements

Corrosion & Salt Spray

- Salt Spray (fog) & Corrosion testing
- Qualifications to ASTM B117 to replace 811.1 Federal Test Method
- Sample Size: 47.5" (L) x 29.5" (W) x 33.5" (D)

NEMA 250

- Cabinet & Enclosure Qualification



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