

BRANDON & CLARK, INC.

MOBILE TRANSFORMER



MAINTENANCE IS KEY

Brandon & Clark recommends that you perform routine field service testing on your mobile substation yearly to insure that your unit will be in excellent working condition when you need it the most. Field services testing on substation units includes: SFRA, DGA, TTR, resistance and Doble® testing.

REDESIGN

With over 50 years of combined engineering experience, Brandon & Clark's engineering staff is capable of performing redesigns of mobile power transformers. Redesign capabilities

include changing primary and secondary voltages, KVA, k-factor rating and converting designs to copper conductor material and converting windings from layer wound to continuous disc windings.

COPPER WINDINGS

All Brandon & Clark mobile power transformer windings are produced using copper conductor and nomex or dennison wrap insulation. Our materials selection philosophy is: use the highest quality materials in the repair or redesign of equipment. This philosophy enables us to help customers avoid unnecessary losses and maximize the life of their equipment.

CAPABILITIES AT A GLANCE

- Repair - Rewind - Recondition
- Redesign
- IEEE & ANSI Design & Testing
- 24 Hour On Call Staff
- Expedited Turnaround Time
- Experienced Design & Engineering Staff
- FR3™ Fluid & Mineral Oil Fill Options
- New Bushings
- Lightning Arrestors
- Reclosers
- Potential Transformers
- Current Transformers & Distribution Transformers
- Relay Equipment
- Battery Charger
- Nitrogen System
- New Copper Windings
- Oven Dehydration
- Check Of All Gauges & Pressure Devices
- High Quality Polyurethane Paint that is Designed to Prevent Rust & Corrosion
- Doble® Testing
- 5,000 Sq Ft Clean, Climate Controlled Winding Facility
- Brandon & Clark Can Rebuild Motors In House
- Pumps & Fans Can Be Replaced or Rebuilt At Our Facility
- Experienced On Staff Controls & Electrical Specialist

Brandon & Clark also has experienced on staff engineers that are capable of converting your mobile transformer from aluminum windings to copper windings. Copper windings offer advantages in transformer losses and mechanical strength which is particularly important for industrial applications where large motor starting loads are present.

DOBLE® TESTING

Using Doble® technology and the DTA database, we are able to give immediate analysis of the device under test. Brandon & Clark can analyze and compare your test result against industry results, to distinguish emerging trends. Each device

name plate and test history is then located in one record, improving the efficiency of testing and evaluation of results. The advantage of power factor testing is that the testing is repetitive and will break down a piece of equipment into sections to determine the exact location of electrical breakdown. The pinpoint accuracy that a Doble® test can provide you cannot be achieved by using an insulation resistance test.

What does Doble® testing include?

- Excitation current testing to evaluate the transformer magnetizing circuit
- Power factor testing to confirm insulation integrity and quality

- Capacitance testing to measure physical changes that may have occurred to the apparatus
- Turns ratio testing to detect shorted turns or winding damage
- Capacitor bank testing detects deteriorating or failed capacitors within a bank.
- Doble® bushing testing (C1/C2, hotcollar) that helps to determine individual bushing health

Brandon & Clark has a dedicated testing and field services team of Doble® trained engineers and technicians to test and evaluate your equipment in the field or in the shop.



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"KEEPING INDUSTRY HUMMING SINCE 1950."

Lubbock, TX - 800-289-2224 • 806-771-5600

Odessa - 800-999-1943 • 432-332-0163

Lubbock - Transformer Division - 806-771-5688

Ft. Worth - 877-638-5593 • 817-838-5593

Hereford - 800-692-4718 • 806-364-5470

Hobbs, NM - 800-222-3890 • 575-392-7561

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