



TEST CAPABILITIES

CAPABILITIES

Nutherm's capabilities include the following services:

- Seismic testing per IEEE 323, IEEE 344
- Environmental testing per IEEE 323
- Accelerated thermal aging per IEEE 323
- EMI/RFI testing per EPRI TR-102323
- Irradiation per IEEE 323
- HELB/MSLB and LOCA testing per IEEE 323
- FTIR (Fourier transform infrared spectroscopy)

- TGA (thermal gravimetric analysis)
- Flammability Testing per IEEE-383
- Specific Gravity of Rubber ASTM D792
- CMTR (Certified Material Test Report) on Metal
- Isothermal Tensile Elongation
- Pressure Drop Testing
- Silver/Gold Plating Thickness Verification
- Dedication services in accordance with EPRI NP-5652 Guidelines and the appropriate ANSI/IEEE/ASME standards.

TESTING CAPABILITIES

Nutherm has over 400 pieces of test equipment. Our testing capabilities include:

AC Electrical Testing	660, 600, 528 & 275 Volt	250 kVA
	480 Volt	750 kVA
	120 & 240 Volt	65 kVA
DC Electrical Testing	370 Volt	350 Amps
	160 Volt	200 Amps
Circuit Breaker Testing		up to 20,000 Amps
Thermal Aging		up to 500° F
High Energy Line Break Simulation		up to 450° F and 150 PSI
High Potential Test		up to 30KV AC or 15KV DC
Electrical Loading		1600 amperes resistive
		136 KVAR inductive
Elongation at Break		500 lb material tester

We also have other miscellaneous electrical, pressure and temperature testing capabilities.

Class 1E Systems & Components Since 1979



MODIFICATION SERVICES

Modifications are often performed at Nutherm.

Our manufacturing capabilities include:

- Control panels and electrical systems
- Custom power supplies
- Custom electric heaters
- Re-engineered products

If a part does not pass a required qualification test, a product modification is considered as a possible solution. We know from our commercial grade parts qualification experience that certain parts and assemblies will require modification. Obsolescence replacement often requires some type of modification.

Modifications have included:

- Structural integrity
- Dielectric properties improvement
- Special mounting provisions and brackets
- Changing O-rings and gasket material for harsh environments
- Special machined parts
- Special fabrications

Modifications such as polishing, coating and heat treatment are available.

The following brochures that demonstrate our manufacturing and modification capabilities are available:

- Custom Panels
- Electric Heaters
- Custom Power Supplies
- Valve Controllers