



# DEPARTMENT OF ENERGY CAPABILITY STATEMENT

*Nutherm's mission is to be the best value supplier of electrical safety systems, assemblies, and components to the Department of Energy.*

### EQUIPMENT QUALIFICATION

- IEEE 323 and IEEE 344
- Tri-axial seismic testing
- Harsh environment (radiation, steam, temperature)
- Electrical performance
- Accelerated thermal aging
- Cycle aging
- Material testing (FTIR, metal content verification)
- EMC testing

### QUALITY ASSURANCE

- NQA-1 1994 (1995a), 2008 (2009a)
- 10 CFR 50 Appendix B
- Safety Class, Safety Significant, Important to Safety, Safety Related, Augmented Quality, High Confidence
- DOE O 414.1D, 10 CFR 830 Subpart A
- 10 CFR Part 21 notifications
- NUPIC and NIAC audited
- NIAC audit shared by DOE sites

### TEST CAPABILITY

- Seismic: 4400lbs (dead weight)
- System thermal aging: up to 1200ft<sup>3</sup> at 300°F
- Component thermal aging: up to 30ft<sup>3</sup> at 500°F
- Steam chamber: 450°F at 150PSI
- Electrical: current, voltage, resistive and inductive loads, dielectric
- Circuit breaker testing: up to 20,000A
- Electrical loading: 1600A resistive
- Calibrated test equipment: >200 pieces
- Full list of test capabilities available
- Custom testing scenarios available

### DOE PAST PERFORMANCE

- Los Alamos National Laboratory
- Savannah River, Hanford, Nevada National Security Sites
- Oak Ridge National Laboratory
- Argonne National Laboratory
- Fermi National Accelerator Laboratory
- National Enrichment Facility

### DIFFERENTIATORS

- Centrally located in the US
- Small, agile, quick to respond
- Specializing in expedited and difficult projects
- Over 40 years in business as 3rd party qualification and commercial grade dedication business
- UL 508A panel shop

### COMMERCIAL GRADE DEDICATION

- ASME NQA-1 Part II, Subpart 2.14
- EPRI NP-5652, TR-102260, TR-1021493 & EPRI 3002002982, Rev. 1 to NP-5652 & TR-102260
- >8,000 previously dedicated parts in Nutherm's test specimen library
- Suspect/counterfeit item prevention meeting DOE O 414.1D incorporated into dedications

*Class 1E Systems & Components Since 1979*



## INNOVATIVE SOLUTIONS

- Obsolescence, re-engineering or replacement of components and complete systems
- Built-to-spec control panels
- Motor Control Centers - OEM
- Refurbishment, hybrid
- Walk-in equipment enclosures
- Generator and UPS systems
- PLC testing services
- Modifications to pass seismic testing

## COMPANY HISTORY

- Serving the nuclear industry since 1979
- Privately held
- Family owned
- Debt free, financially secure
- Employees from nuclear Navy, DOE, and commercial nuclear utilities
- Fully insured

## COMPANY DATA

### NAICS

315990, 332311, 332911, 332912, 332999, 333413, 333414, 333415, 334416, 334417, 334419, 334513, 334515, 334519, 335311, 335313, 335314, 335931, 335999, 423330, 423390, 423410, 423420, 423510, 423610, 423620, 423690, 423710, 423720, 423730, 423740, 423830, 423840, 423850, 423990, 459999, 541330, 541380, 541420, 541990, 811310

**DUNS** 09-863-7861; **UEI** GZ26UJBJTD6  
**Cage** 7S874

### Socio-Economic

Small business & Hubzone certified for all NAICS codes

## CORE PRODUCTS AND SERVICES

### SERVICES

#### Qualifications

- Thermal Aging
- Mechanical Cycling
- Electrical Cycling
- HELB/MSLB & LOCA Testing
- Radiation Aging
- EMI/RFI Testing
- Seismic Testing
- Vibration Aging

#### Dedication

- Critical Characteristic Verification
- Material Analysis
- Similarity Analysis
- Equivalency Evaluations
- Material Property Testing
- Dedication Services
- Calibration of Dedicated Instruments
- Performance
- Electrical Design Tests
- Mechanical Design Tests
- Metallurgical Tests

### COMPONENTS

#### Protective Devices

- Air Circuit Breakers
- Molded Case Circuit Breakers
- Vacuum Circuit Breakers
- Fuses/Fuse Blocks
- Protective Relays
- Test Switches
- Potential/Current Transformers
- Overload Relays/Heater Coils
- Fused Disconnect Switches
- Power Monitors

#### Control Devices

- Pushbutton/Selector Switches
- Indicator Lights
- Auxiliary Relays
- Timing Relays/Timers
- Contactors/Motor Starters
- Control Power Transformers
- Terminals & Terminal Blocks

#### Process Instrumentation

- Pressure and DP Switches
- Temperature Switches
- Level & Flow Switches and Meters
- Level & Temperature Transmitters
- Temperature Controllers & Sensors
- Actuators
- Pressure & Level Gauges
- Tachometers

#### Electronic Conditioners & Alarms

- Annunciators
- Signal Converters & Transducers
- Signal Isolators
- Alarm Units
- I/P & P/I Converters
- Pneumatic/Electronic Positioners
- Smoke Detectors

#### Indicators Analog & Digital

- Voltmeters & Ammeters
- Wattmeters & Varmeters
- Frequency Meters

#### Motors

- AC, DC & Damper Motors

### MAJOR EQUIPMENT

#### Distribution

- AC & DC Motor Control Centers
- Variable Frequency Drives
- Medium Voltage Switchgear
- Low Voltage Switchgear
- AC & DC Panel Boards
- Medium & Low Voltage Transformers

- Disconnect Switches
- Walk-in Enclosures
- Reduced Voltage Starters
- Multi-Speed Starters

#### Emergency Power

- Constant Voltage Transformers
- Power Transfer Contactors
- Diesel Generator Sets
- UPS Systems
- Load Banks
- AC & DC Power Transfer Switches
- AC & DC Control Transfer Switches
- Battery Chargers
- Inverters

#### Control/Specialty

- Diesel Driven Fire Pumps
- Electric Driven Fire Pumps
- Fire Pump Controllers
- PLCs
- Termination Cabinets
- Control Panels
- Instrumentation Panels
- Enclosures
- Heaters & HVAC Control Systems
- UL 508A Panels
- Computer Racks and Consoles
- Instrument Racks
- Annunciator Panels
- Relay Panels
- Panel Fans

#### Miscellaneous

- Design & Fabrication of Retrofit Kits
- Failure Analysis
- Replacement Research (Obsolescence)
- Re-Engineering
- MCC Buckets & Components
- Analog Controllers
- Power Supplies
- Procurement Support
- Selector Switches
- Transformers

## CONTACT INFORMATION

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