

BALDWIN TECHNOLOGIES, INC.

4907 NIAGARA ROAD, SUITE 206

COLLEGE PARK, MD 20740

301-345-8977 ♦ 1-800-944-2832 ♦ 301-345-9538 Fax

Website: www.Baldwintec.com

E-Mail: info@Baldwintec.com

IN PARTNERSHIP WITH:

Potomac Testing, Inc.

4831 Telsa Drive, Suite A
Bowie, Maryland 20715

301-352-1930

Toll Free: 1-800-331-2002

Fax: 301-352-1936

ELECTRICAL SYSTEM

COMMISSIONING – TESTING – OPERATIONS SUPPORT SERVICES FOR CRITICAL LOADS

1. ENGINEERING SUPPORT SERVICES

- Electrical system evaluation, trouble shooting and documentation
- One-line and riser diagram creation
- Power system survey and analysis
- Grounding surveys
- Power problem consulting

2. SHORT CIRCUIT AND COORDINATION STUDIES

- Computer based short circuit studies
- Site surveys and data gathering
- System operational modeling for different system operational scenarios
- Color coordination curves for existing and recommended system setting for all circuit paths

3. ARC FLASH HAZARD ASSESSMENT AND LABELING

- Computer based arc flash analysis in coordination with short circuit calculations
- Arc flash labeling
- Energized work permits

4. WEB BASED MULTIPOINT POWER QUALITY METERING

- Dranetz-BMI Signature system equipment source
- Dranetz-BMI Signature system planning, design, installation and training services
- CT and PT installation services
- Supplementary power quality remote monitoring over the Web with power quality systems analysis and consulting
- A cost effective multi-point power quality metering system which captures total facility power quality metering data during the commissioning process to more fully document system performance – then compare operational data to commissioning data throughout the life of the facility!
- Trend analysis and predictive maintenance

5. SELF DESCRIBING ASSET MANAGEMENT

- Octave Technology, Inc. powered solutions for self describing asset management
- Electronically store equipment specification data, O&M manuals, operations/repair data right on the equipment itself.
- Critical equipment asset management consulting and solutions
- RFID and other auto-ID technology consulting

6. ACCEPTANCE/START-UP TESTING

- Dummy load/load bank testing
- System certification
- Infra-red imaging
- Breaker testing and reconditioning

7. INDEPENDENT TESTING

- Engineers/Technicians who have been certified at Level III or higher by the *InterNational Electrical Testing Association* (NETA) and have a minimum of five years of experience in inspecting, testing, and calibrating electrical distribution equipment, systems, and devices.
- Perform each visual and mechanical inspection and electrical test stated in NETA ATS 2003. Certify compliance with test parameters. Perform NETA tests and inspections for each of the equipment categories per Section 7.0, Inspection and Test Procedures, of the NETA 2003 Specifications.

7.1 - Switchgear & Switchboard Assemblies

7.2 - Transformers

7.3 - Cables

7.4 - Metal-Enclosed Busways

7.5 - Switches

7.6 - Circuit Breakers

7.7 - Circuit Switchers

7.8 - Network Protectors

7.9 - Protective Relays

7.10 - Instrument Transformers

7.11 - Metering Devices

7.12 - Regulating Apparatus

7.13 - Grounding Systems

7.14 - Ground-Fault Protection Systems

7.15 - Rotating Machinery

7.16 - Motor Control

7.17 - Adjustable Speed Drive Systems

7.18 - Direct-Current Systems

7.19 - Surge Arresters

7.20 - Capacitors & Reactors

7.21 - Outdoor Bus Structures

7.22 - Emergency Systems

7.23 - Communications

7.24 - Automatic Circuit Reclosures & Line Sectionalizers

7.25 - Fiber-Optic Cables

- Infra-red imaging

8. EQUIPMENT MAINTENANCE SERVICES

- Additional affiliation with Static Power Conversion, Inc. provides the ability to provide critical system maintenance services for UPS's, batteries, and other critical power environment systems

Static Power Conversion Services, Inc.
9051-H Red Branch Road
Columbia, MD 21045
800-873-8793

9. EMERGENCY SERVICE AND REPAIRS

10. TURN KEY DESIGN/BUILD SOLUTIONS FOR CRITICAL POWER ENVIRONMENTS

- GSA Schedule for turn-key services – GSA #: GS-07F-0718N
- High quality commercial turn key design/build services for high reliability computer rooms, networking centers, command centers, telecommunication facilities and other critical operation facilities
- Provide system analysis, system design, source for critical power equipment, installation of critical power equipment, system testing, system monitoring/metering and system service and repair

MISSION STATEMENT

Provide Appropriate and Cost Effective (ACE) solutions for our customers' critical load requirements, and providing leading edge instrumentation solutions. Maintain the highest standards of professionalism in the areas of engineering, design, construction, and after sales service.

Contact: DAVID GEARY, P.E. ♦ 240.542.1080 ♦ e-mail: dgeary@baldwintec.com