



ELECTRICAL



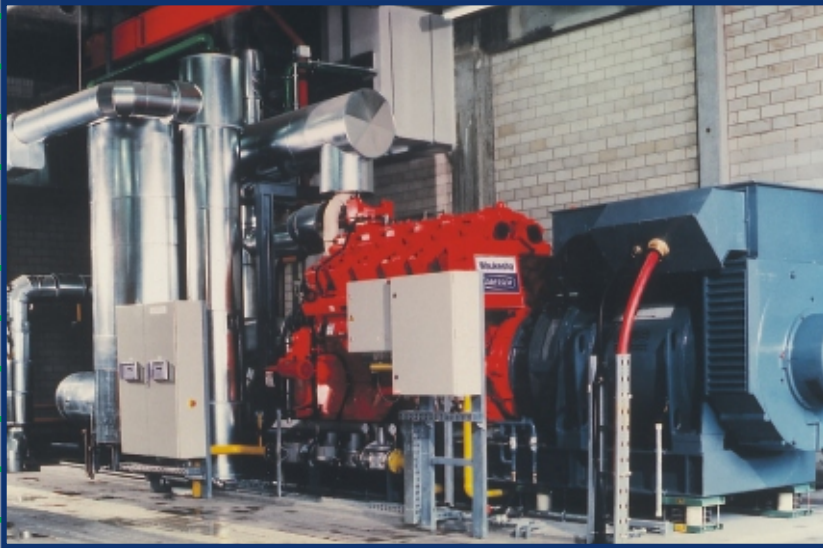
**THERMALTECH
ENGINEERING**

FACILITY AND UTILITY SYSTEMS
ANALYSIS/DESIGN/CONSTRUCTION

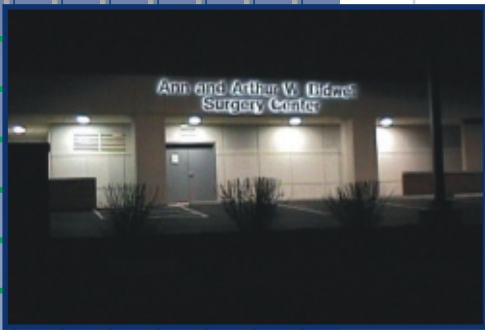
*Partnering for Engineering Excellence
Today, and in the Future...*



ELECTRA



800-HP Natural Gas Engine/Generator



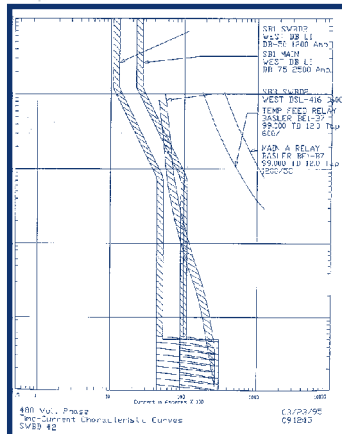
Hospital Surgery Center



Fire Alarm System



Data Center Power System



EDSA System Coordination Studies

Since 1980, ThermalTech has been designing efficient and reliable utility systems for industrial, health care, educational, commercial/retail and governmental customers.

As electrical and mechanical consulting engineers, we emphasize:

- Long-term partnering relationships
- Continuously improving service and product
- Technical expertise and leadership
- Systems approach
- Creative solutions
- Life-cycle cost-effective solutions

Results:

- Many loyal customers (over 80% repeat business)
- More than two dozen awards which illustrate our commitment to and success in designing innovative, economical systems

Electrical Analysis:

- Power quality surveys including system load analysis, load recording and line disturbance monitoring
- Electrical system modeling using EDSA software including short circuit, coordination, load flow and other studies

Electrical Design:

- Site and building service and distribution
- Power factor correction (fixed, stepped and automatic)
- Harmonic filtering
- Transient voltage surge suppression

Cover Photo: Electrical Primary Distribution System

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Medium and High Voltage Systems:

- Substations
- Switchgear
- Ground grids and system grounding
- Protective relaying
- Manholes and ductbank systems



Hazardous-Duty
Explosion-Proof
Devices



Computer System -
Power Distribution Unit

Alternate Power Systems:

- Paralleling systems
- Generators
- UPS
- Peak Shaving
- Cogeneration



125-Volt DC Battery, Charger and Switchboard

Lighting:

- Interior
- Site and building accent
- Specialty systems



Accent Lighting

Specialized Electrical Systems:

- Data centers (7x24 design)
- Life safety (fire alarm)
- Communications (teleconferencing)
- Security (card access, watch tour)
- Controls (total building automation, process)
- Lightning protection



Specialty Lighting



Video Teleconferencing



We offer our customers a wide range of services:

Design

- Design of retrofits, expansions and new construction
- Equipment purchase specifications and bid evaluation
- Code reviews
- Award winning lighting design



Analysis

- Feasibility studies, alternatives analysis, total system optimization
- Master planning
- Instrumented troubleshooting of mechanical and electrical systems
- Utility cost-reduction programs
- Energy commodity purchase assistance

Construction

- Leading turnkey (design/build) projects
- Owner's technical representative
- Project/construction management
- Commissioning
- Start-up and training assistance
- CAD "record" drawing production
- Preventive maintenance programs



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