



## Power Systems

### Comprehensive Knowledge, Systematic Execution

ITAC believes that knowledge and preparedness are the keys to optimizing safety at the worksite. That is why our Power Systems division of engineers and constructors possesses comprehensive leadership capabilities in protecting our clients from experiencing electrical system failures and provides unsurpassed assistance in reducing the severity of equipment damage should a failure occur.



### SPECIALTY SERVICES

ITAC's Power Systems division offers a full body of unique, detailed skills for any size business—from large corporations to individually owned and operated companies:

#### Power System Studies with Code Consultation

- Full analyses of power systems including arc flash and shock hazard (per NFPA 70E and IEEE 1584), fault current calculations, and device coordination
- Production of custom-printed equipment labels accompanied by deficiency and recommendation reports
- Consultation regarding operating procedures to comply with latest arc flash and shock hazard codes

#### Power System Design

- Unsurpassed expertise in low-voltage and medium-voltage system design
- Specialization in pre-fabricated switchgear houses using metal-clad switchgear
- Design and specification of equipment for emergency and critical power systems
- Extensive knowledge of SCADA and HMI systems design
- Design of resistance-grounded power systems
- Business case preparation for and design of static and automatic power factor control systems

#### Medium-Voltage Motor Control

- Diverse knowledge in voltages from 2300V-13200V and motor sizes from 250hp-25000hp

#### Protective Relay Replacement

- Detailed turnkey replacements of outdated electromechanical or single-phase solid state relays with latest multi-function microprocessor relays

### EXPERIENCE

ITAC is proud to be one of the few fully licensed, certified, and credentialed firms in Virginia to offer a rich body of Power Systems. Since its inception in 1988, it has provided turnkey engineering and construction expertise to clients throughout the Mid-Atlantic region. For more information on how we can assist you in your Power Systems needs, please visit us at [www.itac.us.com](http://www.itac.us.com).

### CONTACT

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