

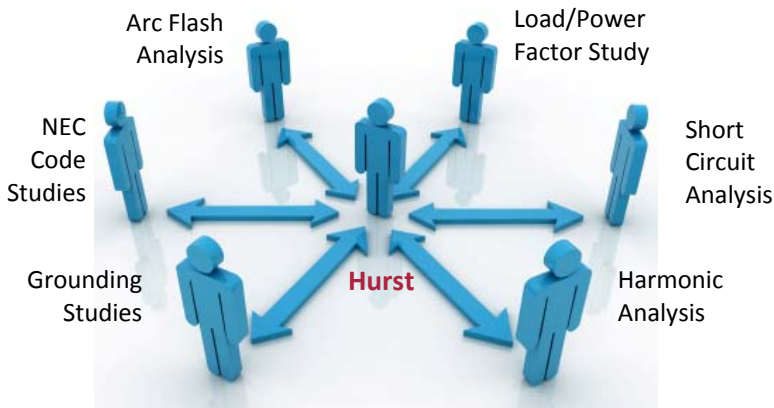
POWER ENGINEERING

Statement of Qualifications

Our Company has played a key role in developing long-lasting partnerships with our clients. Our analytical approach and knowledge of national codes and standards ensure that safe design concepts are incorporated into each project. From feasibility studies to checkout and commissioning, our trained personnel ensure safe-to-operate and easy-to-maintain electrical systems. One consequence of what is described as the brain drain in the power industry is a shortage of experienced engineers and specialists. Hurst Technologies maintains Power expertise that is re-

spected throughout the power industry.

We use computerized tools to specify correctly the switchgear, transformers, motors, and drives which will operate reliably for many years. High operating power factor and harmonic mitigation techniques, high load factor, and high efficiency motors and drives are attributes in the design solutions we complete for our clients.



We use up to date software analysis tools such as SKM and ETAP to model the power system behavior on the utility side and on the plant side of the distribution. We do short circuit analysis, load flow, harmonic evaluation, transient motor starting, power factor, and relay coordination. We implement protection schemes using the latest state of the art microprocessor based protective relays. This enhances the conventional protection schemes by offering a higher degree of selectivity within the coordinated protection schemes and increases the overall reliability of the distribution system during power system disturbances.

Our scope will include any or all of the following: strategic studies and planning, conceptual design, code application, quality assurance, specifications, design and engineering, project management, startup, commissioning, and even system integration.

A complete electrical study or analysis for the industrial and commercial industry should include, but not be limited to the following:

- ⇒ Conceptual Design Study
- ⇒ Load and Power Factor Study
- ⇒ Protective Device Coordination Study
- ⇒ System Short Circuit Analysis
- ⇒ Load Flow Study
- ⇒ Impact Load Study
- ⇒ Motor Starting Study
- ⇒ Transient Stability Study
- ⇒ Dynamic Stability Study
- ⇒ Harmonic Analysis
- ⇒ Surge Protection Study
- ⇒ Ground Fault Coordination Studies
- ⇒ Grounding Studies
- ⇒ Transformer Sizing
- ⇒ Single Phase & Panel Systems Assessment
- ⇒ Arc Flash IEEE 1584 Assessment

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