



Major Components

- » Power Distribution Design
- » Energy Studies
- » Incident Energy/Arc Flash Hazard Analysis
- » Short Circuit Studies
- » Protective Device Coordination

"We could count on the Huffman Engineering team to be professional and competent."

-- Vice President of
Local Utility



Engineering services and
control systems integration

Electrical Engineering Power Specialists

Huffman Engineering, Inc. is a Nebraska based engineering services firm specializing in control system integration. Our start-to-finish project expertise includes design, development, implementation, support, testing, and training.

Our Professional Engineers as well as our firm are licensed in multiple states across the Midwest. These states include: Nebraska, Colorado, Kansas, Iowa, Missouri and Wisconsin.

Huffman Engineering works with various utilities, food, pharmaceutical and industrial facilities in many capacities. Using SKM software for system modeling, the most current IEEE standards, the National Electrical Safety Code, and extensive work experience, Huffman Engineering, Inc. assures quality electrical designs.

Engineered Design Studies

- **Power Distribution Design**

Power distribution design starts at the electrical service entrance point and extends to individual distribution panelboards, motor control centers, and other auxiliary systems. Power distribution is designed to meet the needs of each facility's electrical load.

- **Energy Studies**

Extensive experience with electrical, mechanical, and control systems helps us assist our clients with energy efficiency studies and audits. These services include payback analysis, system efficiency reports, and system modification recommendations.

- **Incident Energy/Arc Flash Hazard Analysis**

Arc Flash studies determine the available incident energy levels present at various points on the facility's electrical system. We work with clients to provide proper arc flash evaluation to identify the appropriate personal protection equipment (PPE) selection can be made to work safely on the electrical system.

Collaborating with the client, the utility company and a local electrician (as required) to collect the necessary system data required for the calculations, Huffman Engineering can assist with the following to meet code requirements:

- Calculating cal/cm² incident energy
- Calculating and defining flash protection boundaries
- Modifying overcurrent device protection schemes to minimize fault current magnitude and duration resulting in lower arc flash incident energy

- **Short Circuit Studies**

Short Circuit (Fault Current) studies are required by NEC to insure that existing and new equipment ratings are adequate to withstand the available short circuit energy available at each point in the electrical system, ensuring your system is designed properly.

- **Protective Device Coordination**

Electrical system protection and coordination studies are key components to ensuring that a facility's electrical system is operating in a safe and reliable manner. Proper system coordination ensures that electrical faults are isolated within the electrical system such that unnecessary shutdowns can be isolated to individual sections or portions of a facility's electrical system.

Making ideas work.



