



ELECTRICAL SYSTEM PLANNING

DESIGNED TO HELP YOUR COMMUNITY SUCCEED

“Enhancing economic development through infrastructure”

Why you should choose **SPECTRUM** for ...

• **System Studies**

As an integral part of planning your system operations and growth, any weaknesses that exist need to be identified and mitigated. The only cost effective way is to study your electrical system utilizing sophisticated software models.

With extensive operating knowledge, the professional engineers at Spectrum Engineering have the ability to gather critical information about your electrical system, properly input that information into E-Tap, ASPEN, and EDSA Power System Analysis Software, and analyze the data. We can then recommend which areas need immediate attention and offer a plan to address other areas likely to need attention in the future.



Our comprehensive general system studies include:

- Short circuit analysis
- Protective device coordination
- Loading
- Load Flow analysis
- Fault current (Arc Flash)

The results will provide a detailed comparison of system losses with the existing versus converted circuitry, with the output providing a detailed cost savings analysis of system upgrades.

Specifically, our power system analysis studies encompass...

- Complete data collection services
- Data input and complete system modeling in the appropriate modeling software
- Short circuit, load flow, and arc flash data analysis with the identification of multiple contingencies
- A detailed assessment of upgrade recommendations, including specific cost/benefit data used in establishing a prioritized list of improvements
- Analysis of your system with respect to the overall power system plan and the economic development of your geographic area

Why Arc Flash Hazard Assessments?

The National Electric Safety Code (NESC) now requires utility managers to conduct Arc Flash Hazard assessments to determine potential exposure to an electric arc for employees who work on or near energized parts or equipment. The Occupational Safety and Health Administration (OSHA) requires employers to give a reasonable estimate of the heat energy that an employee might be exposed to during an arc fault.

Spectrum Engineering Corporation
5524 North County Line Road
Auburn, IN 46706

Phone: 260-627-8888
Fax: 260-627-8102
rlsibery@spectrumeng.com