

ELECTRICAL SYSTEMS DESIGN

- Power System Analysis
- Sub-Station Design
- Protective Relaying
- Distribution Systems
- Power Generation /
Industrial Systems

CONTROL SYSTEMS ENGINEERING

- Distributed Control
Systems (DCS)
- Programmable Logic
Controllers (PLC)
- Hybrid Control Systems
- Instrumentation and
Communications

Upcoming Events

- **POWER-GEN
International**
Nov. 30 – Dec. 2
- **Electric Power
2005**
April 5 – 7, 2005

Overhead Reconductoring - New Spacer Cable in Grafton

Massachusetts Electric has selected ControlPoint Technologies to engineer the replacement of existing overhead electric distribution in Grafton, MA. Using advanced GIS technology, the computer based design generates layout/design drawings, bill of materials, service connections, load information, geographical references, and engineering /design data necessary to complete the installation.



This project scope involves a comprehensive load review, primary reconductoring with spacer cable, pole replacements, and replacement of miscellaneous equipment – cutouts / grounds / fuses / guys & anchors / lighting, etc. ControlPoint was also responsible for assessment and coordination of environmental issues, permitting, telephone / cable utilities, and forestry requirements.

PLC Control System Updates for Chemical Producer

ControlPoint recently completed a review and update of the data communications system for a PLC based control system. The project was completed for a leading chemical producer that was experiencing data communications problems with the control system. The facility uses a batch process system to produce chemical compounds, using Allen-Bradley PLC hardware / software for control and data acquisition.

The project involved an evaluation of existing communications, control system hardware / software, and the HMI. System updates involve a reconfigured communications mapping strategy, several programming changes aimed at network speed / baud rate, and only a few hardware changes.

Overloaded Transformer Replacements – Pilot Program

National Grid USA has contracted ControlPoint to complete a Pilot Program to identify and replace overloaded transformers in the Bay State South's Brockton District. This initiative will involve 17 cities / towns where distribution transformers are found to be in an overloaded condition, estimated to total 450 transformers. ControlPoint will be responsible for identifying actual overload conditions, engineering and design of replacement transformers, and redesigning distribution cribs.