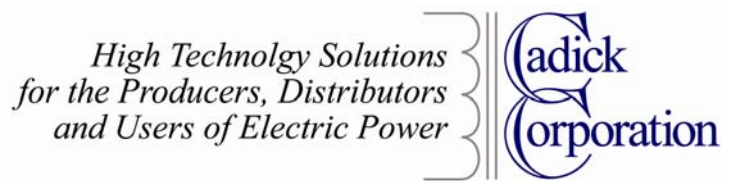


The Electrical System Technical Audit



Background

Electrical power system operations and procedures must be kept in top condition to insure efficient and safe operations. A Cadick Corporation Electrical System Audit reviews system engineering studies, operational procedures, code compliance and a variety of other items to help keep your system in top operating condition.

Benefits

An electrical system audit will provide an independent third party evaluation of the condition of your electrical system including:

- The adequacy of the circuit breakers and fuses to safely and reliably clear any faults that may develop on the
- The ability of the electrical protective devices to properly protect the effective equipment from damage and minimize the chance of false trips causing unnecessary interruptions to production.
- The ability of the electrical protective devices to provide selective tripping.
- Compliance with the National Electrical Code and other relevant regulations.
- Visual verification of proper grounding practices

For more information
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Service Description

Our audit team will conduct an onsite inspection of your electrical system. We will conduct a walk through and complete review of the electrical system including

- Electrical and Mechanical condition of equipment such as overdutied cables or equipment and environmental deterioration.
- Operating methods and procedures

We will review existing engineering documentation including the Short Circuit Analysis, Protective Device Settings and available engineering drawings. Our review will include:

- Comparison of the existing Short Circuit Analysis values to breaker and/or fuse interrupting ratings
- Verification of the actual settings versus the recommended settings in current Coordination Study.
- Existing Time Current Coordination curves to document and highlight any mis-coordination problems that might exist.
- Spot checks of setting applied to non-overcurrent relays such as Differential, Generator Protection and Directional relays.

We will also make a detailed review of the electrical maintenance procedures and equipment for:

- The existence/condition of procedures
- Current maintenance practices versus industry standards
- Analysis of maintenance schedules
- Comparison of schedules versus available resources
- Evaluation of actual performance
- Proper compliance with NEC
- Proper grounding

Following the audit a written report containing our findings and recommendations will be provided.