Zeefax



Protection Device Coordination Study

Protective Device Coordination is the process of determining the optimum timing of current interruption when abnormal electrical conditions occur within electrical control panels and systems. The goal is to minimize unscheduled or unexpected power outages, by ensuring that if and when a fault occurs, the installed fuses and circuit breakers will operate in a timely manner AND in the right order. This is especially important for **Drilling** and related applications, and **Zeefax** can provide a comprehensive Coordination Study service for all type and manufacturers of MCCs.

Protection Device Coordination

Until recently, protective device coordination studies would have been laboriously performed manually, using translucent log-log paper, but modern computer methods have enormously streamlined the process, reducing the time and the cost of a comprehensive studv. thereby makina svstem coordination realistic studies а proposition for almost any electrical installation.

Using advanced software routines, our expert analysts can produce optimised system response reports, including a selection of graphical and tabular displays, intended to enable the plant owner to fine tune each protection device to meet the specific operational and protection needs of the plant.

Reports include time vs. current coordination drawings, one-line diagrams and a complete schedule of device settings, highlighting individual response time settings for each breaker and for each fuse in the shutdown regime.



Furthermore, if components require updating, the report includes detailed recommendations and specifications for suitable devices, each carefully selected and dynamically re-modelled to ensure accurate and reliable protective co-ordination between electronic and thermal devices when installed.

This dynamic technique may be applied to almost any electrical power system including utility, industrial, commercial, manufacturing, and process systems, and device responses may be may be plotted at any voltage, current or application frequency.

Zeefax inc. 6049 Keller's Church Road, Pipersville, PA 18947 Tel: +1 215 230 5500 Email: ussales@zeefax.com Zeefax Limited 320 King Street, London, W6 ORR, ENGLAND Tel: +44(0) 20 8748 7808 Email: uksales@zeefax.com

Key Benefits

The benefits are:

- Design safer power systems by quickly and easily evaluating all devices for proper short circuit levels, and application within acceptable voltage ratings.
- Save time with automatic TCC drawing and associated one-line creation from the main one-line diagram.
- Eliminate errors by keeping all input data, one-line diagrams, TCC's and study results in a single project database.
- Communicate designs effectively with high quality graphical output and custom formats.

Standards

Using the advanced software analysis routines, we can perform detailed studies according to the recognized international standards for Vessels and Offshore units (IEC61363) and for land based installations (IEC60909).

These standards define the procedures for calculating short-circuit currents and protection systems for three-phase electrical installations for ships and mobile and fixed offshore units.

Contact us

For all Hill Graham services and manufactured parts, **Zeefax** is now the preferred supplier worldwide, as well as providing a host of other related Drilling services including...

- Site Surveys and Field Service Support
- Coordination Studies
- GE752 Drive Motor Refurbishments
- SCR Refurbishments and Enhancements
- New design and build SCR systems VFD and DC Systems
- SCR and PLC Training Courses
- *Spares and Service for Ross Hill SCR Systems and Modules

Please call us to find out more about how we can help to preserve your capital investment, through a program of works, carefully designed to optimise the utility and the performance of your Power System, whilst ensuring that it provides reliable and dependable operation for all your drilling applications.



Zeefax inc. 6049 Keller's Church Road, Pipersville, PA 18947 Tel: +1 215 230 5500 Email: ussales@zeefax.com Zeefax Limited 320 King Street, London, W6 ORR, ENGLAND Tel: +44(0) 20 8748 7808 Email: uksales@zeefax.com