

Our Work

Primary Electrical Design

Primary Electrical Design work involves establishing the physical arrangement of plant, equipment, and structures to meet site constraints and statutory clearance limits, as well as selection of specification of conductors and connectors. Existing site conditions are established from a combination of archived records, site surveying and previous standards. We then modify this to include any new/replacement equipment.

Secondary Electrical Design

Secondary electrical design work involves the specification of plant and equipment, the production/adaption of schematics, wiring diagrams and schedules, and the maintenance of operational drawings. We work from agreed protection standards based on policy and adapt to suit the site conditions. Many of the challenges of this work surround interfacing new equipment with existing which is something we do regularly. This can involve a good degree of 'detective work' and problem solving to ensure the schemes will function correctly.

Protection Electrical Design

Our electrical protection engineers are responsible for the detailed modelling and analysis of our network, to establish the optimum settings arrangements for plant and equipment. They calculate and issue settings and configuration files, to allow generic relays to be programmed to respond appropriately to faults on the section of network they are protecting. The engineers also provide specialist post event analysis to help inform investigations and highlight learning opportunities following network faults, alongside other technical support and insight.