



INDUSTRIAL, COMMERCIAL & DOMESTIC ELECTRICAL ENGINEERING
RAILWAY ELECTRIFICATION ENGINEERS & MAINTAINERS

A little bit about us...

A & M Electricals Limited have many years experience and expertise undertaking design and construction of fully integrated 25kv and above substation works – specialising in HV systems, protection and high voltage applications. As well as LV works, Testing, Commissioning, DC Track cabling (positive & negative), distribution.

We offer a bespoke service however complex and whatever size your project is. Our specialised team will design, construct and maintain to the highest of quality, minimising any risk and offering a performance second to none.

We have the capability to design, supply, construct, install, test and commission electrical distribution systems including substations and associated buildings, switchgear, transformers, protection and control systems, cables, joints and terminations, cable containment systems.

Commissioning and de commissioning Protection Engineers.

Third rail (33KV - 750v DC) systems

Electrical Track Equipment (ETE) works

SCADA

High Voltage (HV) and Low Voltage (LV) distribution systems. Pilot cabling.

Operation and maintenance

LVAC Installations BS7671

Testing and Earthing

Protection Relay

Install, commission and test SCADA communication systems

Data analysis, Data acquisition,

Earth Testing

A & M are currently involved various projects nationwide that involve Design and Construction of fully integrated systems of works at 25KV, 33KV, 750VDC and 1500VDC:

Unit 9, 194 Commerce Park, Stephenson Road, Washington. Tyne & Wear NE37 3HR

Office Tel: 0191 4191519 - Fax: 0191 4192439.

Email: info@am-electricals.com Web: www.am-electricals.com

Company Reg No: 5718298 VAT Reg No: 733 / 9541 / 20 jan 15

Recent Projects 2014 A&M Electricals Ltd South Division

IUS

A&M Electricals Ltd have been responsible for all IUS electrical installation works for a number of years.

We provide Electrical installation staff and Electrical Commissioning Engineers of varying competencies including CRE, Level A's, PTS, C and D.

AC Works- A&M have successfully completed numerous AC sites fir IUS.

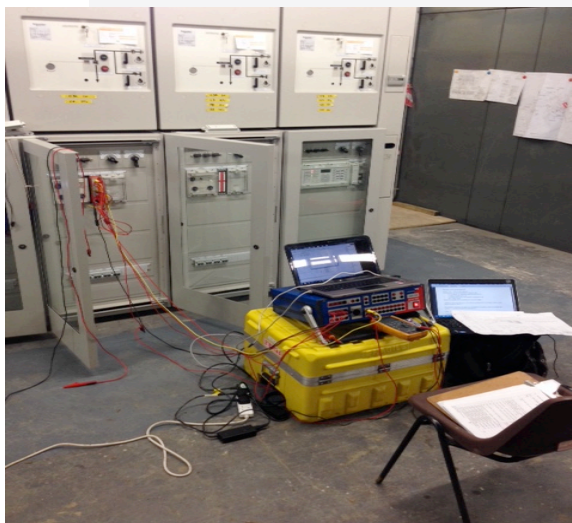
Typically the works involved will include:

- HV Bypass of substation OR Parallel Build of new HV Equipment.
 - Installation of new HV Switchgear.
- Installation of new LVAC Panel and transfer from old to new.
 - Replace Auxiliary Transformers
 - Domestic Lighting and Power
- Commission all equipment into service
- BS7671 LV Installation certification

DC Works- Historically A&M and IUS have been front runners when it has come to the successful turnaround of DC switchgear upgrades. We have been recognised and commended for the high standard of installation with quick, incident free projects.

Typically the works involved will include:

- DC Bypass of the site OR Installation of temporary modules.
 - Strip out old DC Switchgear.
 - Floor Preperation.
 - Installation of new DC Switchgear.
 - LV Domestic installation
- BS7671 LV Installation certification



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HVMS (York)

NSCD- Multiple Sites, Including Guildford, Shalfords, Streatham, Worplesdon, Bellfields and Belle Vue. A&M provide all installation and commissioning staff for this project. As this project is a trail the works are still on going, however the works carried out so far have been commended by NWR.



HVMS (South)

A&M have supported HVMS with the Testing and Commissioning of DC Switchgear installations (Balham, Selhurst, Victoria and Tulse Hill), AC Switchgear installations (Bentley and Guildford). We have carried and and assisted with the pre commissioning and commissioning into service of the above



Dyer & Butler

Canonbury Station platform extension enabling works.
11KV Ring Main Unit, 11KV/415V Transformer and LVAC Panel relocation. Works completed on time
25th DEC and 26th DEC 14

Morrison Rail Services

A&M Supported Morrison Rail services through the design, installation and commissioning of various Transformer Rectifier renewals projects. Throughout these works A&M provided all of the electrical installation engineers and carried out all the commissioning works.

The works involved:

- Isolation of existing Xmer Rec
- Removal including LV supplies and SCADA alarms
- Installation of new Xmer Rec
- HV Cabling from R1 HVCB to Xmer
- Anode Cabling and containment
- LV cabling and containment
- Pre Comm and Commission into service

Lowery

A&M have supplied Lowery Level A/B and D engineers to provide rack-out, isolations and issue permits for various 33KV Feeder, Pilot and DC Cabling projects, including:

- Wimbledon Platform extension.
- Belle Vue track cables
- Reigate
- Selhurst
- Ashford

Colas/Pod Trak

Safer Isolations project, A&M have provided all electrical installation staff and Commissioning engineers. The project involved the installation of CTS's (Controllable Track Switches) at numerous locations. The works involved are as below:

- Location of CTS
- Cable Containment, Ladder and/or cable tray.
- Installation of LV Supplies from DNO or sub station domestics
- Control and indication- Hard wired or MS146
- BS7671 LV Installation certification

Recent Projects A&M Electricals Ltd North Division examples..

Carillion - EGIP and RACE Projects

BCM - Kent project

Carillion Crossrail - West Surface Works and IEP. Old Oak Common Feeder changes and North Pole Bonding works.

HVMS - West Coast Power Upgrade Project. Ditton , Sandbach, Wilmslow, Stoke .

East Coast ECML - Feeder, MPTSC/TSC cable renewals. I&E and Commissioning. Countywide VCB renewal programme, ACB assessments.

BBR - ATF, OLE4 Power West Coast Liverpool to Manchester, phase 1. ACB change, XE2, 386 replaced, WCML, Anglia, ECML and Scotland.

Siemens - Edinburgh Tram Network. ELL Phase 2, Silwood & Old Kent Road.

BBESL & BBRL - Paisley Corridor Improvements.

Skanska / Volkerrail. – All HV/LV and DC systems ,Stratford International Extension.

Carillion - Haymarket 25kV extension Bus/Panel Extension

Siemens/BBRP - Airdrie 2 Bathgate Project

ELL - Phase 1A Commissioning works

West Coast Main Line - installation of nine subs.

The company prides itself on offering a service that is not only deliverable in a timely manner but also our health and safety policies reflects the importance of minimising risk and maximising continuity to every project we work on.

Our efforts are magnified to work within the timescales and objectives requested by the Principal contractors and this is reflected in our work performance.

Pre planning meetings and site visits are vital to the operation of the project being a success.

Communication is transparent between all parties concerned, leading to a smooth operation and a timely completion of all projects we have undertaken. Some examples:

East London Phase 1 Project successful completion and handover.

Volker Rail: HEX Project Successful completion and handover.

Siemens Cross Rail Project: one example of many modifications involving SCADA- modifications to the existing cromosXpress system at Romford, to include supply and installation of our configured communications cabinet, modified firmware and fitted into the existing comms cabinet and diversion of cables made.

Docklands Light rail Project SCADA transfer and Assimilation works.

Our staff/employees/sub contractors are continually assessed, checked and reviewed allowing best possible performance and practice from our resources at all times.

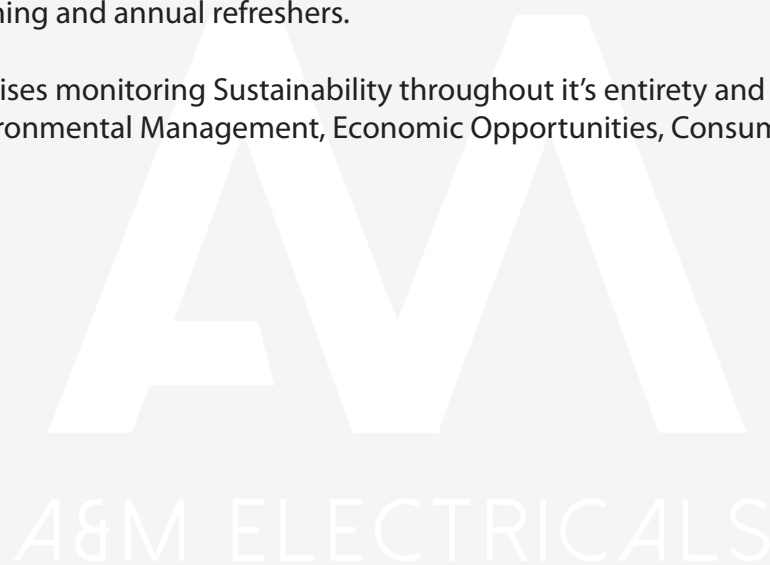
We have many resources to cover sites working in parallel to one another, for example, currently we are operating 5 parallel sites communication, resource, pre planning and co-ordination is key to the smooth operation. A supervisor shall be placed on each site.

A & M Electricals Limited can boast in having a robust platform of good practise in Equality and Diversity throughout the company, not only do our employees/ sub contractors go through a vigorous induction of Health and Safety briefing, legislation etc we also implement E & D training to individuals upon induction.

As well as online training and annual refreshers.

The company recognises monitoring Sustainability throughout it's entirety and applies best practices in areas such as: Environmental Management, Economic Opportunities, Consumption, technology etc.

Andrea Coates
HSQE Manager
2nd Jan 2015



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