



CASE STUDY: PONSANDANE

SCHEME: NEW ELECTRICAL SUPPLY AT PONSANDANE SIDINGS

LOCATION: PENZANCE

CLIENT: AMCOGIFFEN

COMPLETED: MARCH 2025

SCOPE OF WORKS

Project value: £291,823.90

Agreed variations: £12,128.34

Total: £303,952.24

On-site works: 17/09/2024 - 12/03/2025

RJ POWER TEAM

Senior Project Manager Andy Gore

Project QS Alex Ive

Site Supervisor Vasile Bodea

T&C Engineer / Nominated CRE Mark Hayes

SAP Steve Cresswell

RJ Power West were awarded a project in Penzance working for AmcoGiffen, to provide Network Rail with a new electrical supply for the Shore Supply at the new Ponsandane Sidings. Our works consisted of the following:

- Earth resistivity testing
- Compilation of earthing study
- Excavation of a 50mtr trench to install bare copper earth tape and earth rods
- Exothermic welding of the earth tape to the earth rods
- Delivery and installation of a Wilsons 500kVA transformer
- Delivery and installation of a Wilsons 800kVA transformer
- Delivery and installation of a Schneider 3-panel Genie Evo switch panel
- Installation and termination of all LV / HV cables
- Installation of a new EPO and disconnectable earth bars
- Installation of lightning protection
- Testing and commissioning of all the above
- The issue of a Health and Safety pack



A high-speed train, possibly a TGV, is crossing a large steel truss bridge over a river. The train is white with blue and red accents. The bridge has multiple spans and overhead power lines. The background shows some trees and a clear sky.

PROJECT OVERVIEW

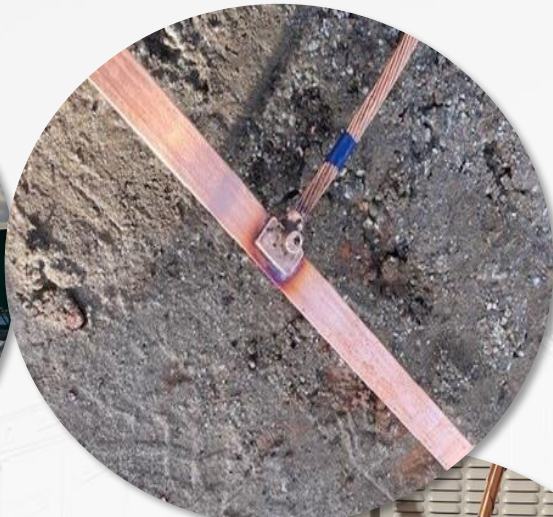
The planning of this project was key to ensure we met the requested dates for our client and had the right resource available on the ground to deliver the works. It is a great testament to the whole project team that we achieved our planned commissioning-into-service date to allow our client to handover to Network Rail.

Amco-Giffen requested RJ Power supply an HV CRE (Contractors Responsible Engineer) - a role fulfilled by RJ Power Networks Testing & Commissioning Engineer Mark Hayes - as the point of contact between the project team and Network Rail, to check the designs and answer any HV-related questions. Mark also completed all Network Rail paperwork to enter the HV equipment into service, as well as attending the Factory Acceptance Test (FAT) at Schneider Electric in Leeds.

Logistically, the project was harder to manage than others due to its location and travel time. This was managed effectively using a paid shift to travel to and from site; while this reduced the working week, it ensured that works did not interfere with our employees' family time at the weekends.

During the works - and more so during the pre-commissioning and commissioning - there was close liaison between RJ Power / Amco-Giffen and NGED (National Grid Electrical Distribution) - owners of the incoming supply (11kV) via the newly installed RMU (Ring Main Unit) - as we had to meet their programme of works.

TESTIMONIAL



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Thank you all for your input and contribution to the delivery of this project. It had its challenges, but we resolved them and provided a product that Network Rail is very pleased with. We handed the site over with zero snags and Network Rail has given great feedback about how we collaborated on- and off-site and provided technical support when they needed it. ”

- Craig Philip, Senior Contracts Manager, AmcoGiffen

RJ POWER

COLLABORATIVE ENGINEERING SOLUTIONS



South

Unit 4 Crayside
Five Arches
Business Estate
Sidcup
DA14 5AG

London

The Vaults
30 Old
Broad Street
London
EC2N 1HT

Bristol

Citibase
Aztec Centre
Aztec West
Almondsbury
Bristol BS32 4TD

Salisbury

Unit 6 Rockhaven
Business Centre
Rhodes
Moorhouse Way
Longhedge SP4 6RT

North

Unit 29
Street 6 South
Thorp Arch Estate
Wetherby
LS23 7FD

Midlands

Osprey House
Pegasus Business
Park, 5 Hunter
Road Derby
DE74 2TQ