

UK TURNKEY PROJECT: 11kV/415V ROBUST DISTRIBUTION UNITS

Case Study

Customer

Gypsum mining company in the UK

Background

A significant portion of Britain has been built from gypsum that is mined and processed in Britain.

Ampcontrol's client is a key market participant in the British gypsum industry and operates five underground mines in the UK, primarily producing the raw material for plaster and plasterboard that it also manufactures.

Ampcontrol has a longstanding history of equipment supply to these mining operations and values the shared 100 years plus of mining history in the UK.

The equipment

Ampcontrol was selected to design, manufacture, install and commission the following electrical distribution units, both of which were equipped with Ampcontrol's AWT protection relays for sensitive earth fault detection and protection:

- Two AUK3000 800kVA 11kV/415V TRF with AUK1000 five-outlet distribution board

- Two AUK3000 315kVA 11kV/415V TRF with AUK1000 three-outlet and two-outlet distribution boards.

The scope also included the interconnection of the equipment onto the 11kV mine distribution network.

This included the termination of 11kV 120mm² SWA cables between the 11kV ring main units (client supplied) and bespoke Ampcontrol equipment, and the full commissioning of the equipment.

Challenges

Reducing downtime during equipment installation to ensure production delays are curtailed as far as possible is always a challenge.

This was overcome by ensuring a clear line of communication with the client team and allowing flexibility in our installation and commissioning planning.

Achievements

Ampcontrol successfully completed the full scope of the project, with the capital equipment design and manufacturing completed well within the allocated project timeframe and to the high quality



standard that is dictated by the UK mining industry.

With the technical expertise and skill of our Ampcontrol Field Services team, the installation and commissioning was co-ordinated with the client's schedule requirements, for efficient and successful installation and commissioning of the bespoke units in the underground environment.

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