



BMA Coal Blackwater Mine - Draglines 25 & 26 PCR Room Upgrade



Project Overview

i.power solutions in conjunction with BMA Blackwater engineers and GE Australia provided a complete PCR room upgrade for draglines 25 & 26. i.power's work was carried out largely off site designing and manufacturing both the transportable PCR and AC Services MCC. A high level of coordination was required to ensure an integrated design that was able to fit into the confined space of the dragline.

- Integrated design to suit confined space and equipment
- 8 Tier MCC with split bus
- Installation and connection of GE supplied DC equipment
- Room design to support overhead isolation transformers and large air conditioning package unit
- Off site interconnection and testing of all room equipment

Co-Ordination

Because of the many physical constraints, a high level of coordination was required to ensure all BHP and 3rd party equipment was correctly installed and met Mines Department regulations. The project could not have been successful without the close working relationship between all parties.

Off Site Works

To minimize the shutdown duration and costs, as much work and testing as possible was carried out off site at i.power's workshop. All equipment was powered and tested to ensure only filed connections and final fitout were required once the rooms were on site.



Motor Control Center

A specially constructed narrow Moducell 400 MCC was manufactured for the dragline AC systems to ensure that "door open" clearances within the PCR room met Mines Department standards. The MCC was also fitted with a split bus system to allow a single point of isolation for all working loads on maintenance days while maintaining general light and power onboard.

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