

Client:
BHP Billiton

Distributor:
NHP

Contractor:
Downer EDI

Project:
Jimblebar Mine

Location:
Pilbara region of Western Australia, 41 km east of Newman

"The key benefits of this project are that the site only needs to hold a minimal range of spare ACBs which therefore reduces the duration of any future downtime. Other benefits include the implementation of remote opening and closing, ensuring user safety which is integral to the BHP core beliefs."

- Liam Kelly, NHP Service Technician

Remote ACB switching to reduce risk at Jimblebar mine

Fully owned and operated by BHP Billiton, the Jimblebar mine is an iron ore mine located in the Pilbara region of Western Australia, 41 kilometres from Newman. As one of seven iron ore mines the company operates in the Pilbara, it was opened in March 1989 and has the capacity to produce 14 million tonnes of iron ore annually via a two-stage crushing circuit.

Following detailed discussions between BHP Billiton, Downer and NHP a number key requirements were identified including the monitoring of overcurrent relays, compatibility of breakers across the site, remote operation of the breaker itself and communication back to the BHP SCADA system.

The installed ACBs have the same protection relays which simplifies maintenance: only one spare. Plus, remote switching solves a major safety concern: switcher does not have to stay at the MCC to operate an ACB.



Working process at Jimblebar Mine



Switchboard with Terasaki equipment at Jimblebar Mine

Project Details

- ALL ACBs have latest overcurrent relay model AGR31BL
- Remote open and closing is available
- ONE ACB can be kept as a site spare

