

CASE STUDY

JAGUAR-BENTLEY MINE UPGRADE

PROJECT PROFILE

The Jaguar-Bentley Operation, located 60km north of Leonora, comprises of the Jaguar and Bentley copper-zinc-silver underground mines and milling operation.

SGC Australia carried out the initial electrical, controls and instrumentation design and commissioning and has also provided controls support of all plant maintenance shutdowns and upgrade projects since start-up in 2007.

PRODUCTS HANDLED

- Zinc, Copper and Silver

CAPACITY

- 390,000 TPA ore milled (2013) for metal production in-concentrate of 33,800 tonnes of Zinc, 5,000 tonnes of Copper and 1,400,000 ounces of Silver

PRODUCTS USED

- RS Logix 5000 V20
- CitectSCADA V7.0r1
- CitectSCADA V7.3 SP1
- Miri AD2006 data radios



SCOPE OF WORKS

Upgrade Projects Completed:

- New secondary and tertiary/HMS Crushing circuits
 - Supply of two new PLCs, Programming and commissioning of PLC code
 - New plant items added to CitectSCADA
 - Two new Citect control clients
- CitectSCADA/RSLogix 5000 Upgrade
 - Replacement of IO servers and SCADA client PCs for upgrade of CitectSCADA from version V7.0r1 to V7.3SP1
 - Software installation and Citect project upgrade changes required for new version
 - Software installation of RSLogix 5000 V20
 - Licensing updates for new software versions
 - Migration to the new system on site
- CAF plant Automation
 - Supply and programming of new Delta PLC and HMI touch panel
 - Commissioning support

OUR INVOLVEMENT

Ongoing Remote Site Support and Onsite Plant Shutdowns:

- Remote support of Rockwell PLCs and Citect SCADA network
- On site presence for plant maintenance shutdowns

Plant upgrades during plant shutdowns:

- PLC code and CitectSCADA changes as required
- New Tails Dam radio communications network using Miri AD2006 data radios