

# SUCCESS STORIES



## Boyne Smelters Limited CBF4 Fume Treatment EIC Works

### Background:

The Boyne Smelters Development Group (BSD) installed a new Carbon Bake Furnace (CBF4) to replace the old CBF1 and CBF2. Part of this project involved the installation of a new Fume Treatment Centre (FTC). Welcon Technologies were contracted to provide a turnkey electrical, instrumentation and control solution for the FTC.

Engineering design for the electrical, instrumentation and control systems were provided. Supply, installation and commissioning of a pre-fabricated switchroom containing the MCC were performed, as well as supply, installation, commissioning, programming and configuration of the instrumentation, VFD, PLC and SCADA systems.



### Project Specifics

#### Client

Boyne Smelters Limited

#### Location

Boyne Island, QLD

#### Year Completed

2013

#### Size / Quantities

Pre-fabricated Switchroom 16x4m  
65kA Motor Control Centre including:

- 3 x 315kW Exhaust fan VFD's
- 26 x Local Control Stations for other MCC drives
- 100 Instruments
- Rockwell PLC Control and Communications System
- Honeywell Experion SCADA

#### Services Provided

- Detail design of Switchroom and Motor Control Centre
- Detail design of Instrumentation System
- Detail design of Communications and Control System
- PLC and SCADA programming
- Supply, installation and commissioning of Switchroom, MCC, Instrumentation and Control Systems

#### Delivery Method

Design and Construct with WTIC Joint Venture partners I&C Electrical