



## Yandicoogina Plant Analysis System

### PROJECT LOCATION

Yandicoogina, Pilbara, Western Australia

### PROJECT CLIENT

Rio Tinto Iron Ore

### PROJECT SUMMARY

Rio Tinto Iron Ore engaged Calibre Projects as the prime EPCM contractor to expand the Yandicoogina mine by executing the Junction South East Project. Part of that expansion project included a full implementation of a Manufacturing Execution System (MES) solution by Calibre Controls. Such systems are termed Plant Analysis Systems (PAS) by Rio Tinto Iron Ore, and are deployed throughout the Pilbara Iron operations.

### BUSINESS IMPROVEMENTS

- Real time and historised plant data available through data historian
- Downtime data availability through delay accounting system
- Transparency of operations data to the business through production portal
- Ability to monitor ore tracking and blending across the supply chain
- Improved plant availability by better downtime analysis
- Improved day-to-day operations management via customised and standardised reports

### PROJECT SCOPE OF WORK

Calibre Controls scope of work for the PAS included overall responsibility for the architecture, design, engineering, configuration, testing and commissioning of the component systems. Also, Calibre Controls took responsibility for the integration of these important Level 3\* systems downwards to the real-time data sources in the Level 2 control and monitoring systems (i.e. PLC and SCADA) and upwards to the Level 4 enterprise business systems (i.e. SAP). In summary, the scope entailed:

- System architecture design
- Integration with Level 2
- Data historian configuration
- Definition and implementation of delay accounting system
- Implementation of portal
- Vendor and subcontractor management (procurement management)
- Detailed testing and user acceptance of the system
- Change management of systems
- Training and handover to operations personnel

### ABOUT CALIBRE CONTROLS

Calibre Controls is an industrial automation specialist, providing clients with 'intelligent production' control and information management solutions for optimal plant throughput and 'increased asset utilisation'.

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