

BHP Billiton



Boodarie Iron Hot Briquette Iron Plant

Fast Facts

Customer:
BHP Billiton

Location:
South Hedland, Western
Australia

Project:
Hot Briquette Iron Plant,
Control System Re-
engineering

Date:
2002

I/O Count:
32,000

Control System:
Yokogawa Centum CS



Project Overview:

Revise and upgrade plant wide control logic and operator interfaces to maximise processor idle time, to rationalise plant alarm system and to provide efficient operator interface facilities.

MIPAC Scope:

- Decipher existing software coding
- Re-code in standard, efficient format without changing plant control strategy
- Re-build operator displays for efficient operation and alarm handling
- Train HBI personnel with new system
- Commission during plant shutdowns

Technical Highlights:

- Yokogawa Centum CS Control System including 18 operator screens in a central control room and 34 field control stations (FCS) across the plant.
- Brownfields project requiring reverse engineering of existing control logic and recoding of system, one box at a time, without changing plant control logic
- Extensive co-ordination with site engineers and operators to re-code, test, install on limited shutdown, test and commission
- Original issues included plant alarms occurring at over 2000 events per day with processors operating at up to 180% of capacity
- Long term project terminated after two and a half years when BHPB decided to close the plant