MIPAC

PROJECT PROFILE

Xstrata Copper

Oxygen Plant Control System Upgrade

Fast Facts

Customer:
Xstrata Copper

Location:
Mount Isa, Australia

Project:
Oxygen Plant DCS Upgrade

Date:
Completed July 2006

Plant Details:
Two Linde 525tpd Oxygen Plants

Control System:
Yokogawa, CS3000

Project Overview:

Xstrata operates two 525 tonne per day oxygen plants to supply gaseous O_2 to copper and lead smelting operations. A steady and reliable supply of oxygen is critical to maintain current production levels within the copper and zinc/lead streams. Since 1991 both plants have been controlled using a Yokogawa *u*XL distributed control system, which is no longer completely supported by Yokogawa. This project involved the replacement of the *u*XL system with the current Yokogawa CS3000 DCS.

MIPAC Scope:

- Reconfigure all plant controls to the CS3000 DCS
- Install and commission new DCS
- Perform FAT and live plant testing
- Provide operator support during plant startup
- Enhance graphics and control strategies

Technical Highlights:

- Seamless replication of *u*XL configuration in CS3000
- Software developed to automate conversion
- Improvements to control strategies and operator HMI

Results:

- Reliable DCS platform for critical plant operation
- More maintainable DCS platform
- No loss in oxygen to critical plant operations

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