

McArthur River Mining



Rougher Flotation Expansion Project

Fast Facts

Customer:
McArthur River Mining
(Xstrata Zinc)

Location:
McArthur River
(Nr Borroloola), Northern Territory, Australia

Project:
Control System Configuration

Completion Date:
2006

I/O Count:
Approx 250

Control System:
Yokogawa CS3000

Project Overview:

Xstrata zinc's McArthur River Mine has expanded their flotation capacity by installing 4 new rougher flotation cells and converting the existing rougher flotation cells to a 7th stage cleaning circuit. This project aims to provide both increased treatment capacity and improved concentrate grades to meet changing zinc concentrate market. Requirements to incorporate new 4 stage rougher flotation cells, as well as flocculent mixing system.

MIPAC Scope:

- Revise existing plant wide control logic and operator interfaces.
- Electrical design, including 11KV and serial communications.
- Integrate new flocculent mixing equipment into DCS.
- Train MRM personnel with new system.
- Commission during plant shutdowns, without loss of production.

Technical Highlights:

- Yokogawa CS3000 Control System including 6 operator screens in the plant and 3 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, test, install on limited shutdown and commission.

