

HOPE DOWNS DEWATERING OPTIMISATION

Applicon was commissioned by KBR to design and install a control system for a dewatering collection dam booster pump station. The implementation involved Modicon Concept PLCs, CitectSCADA HMI and Miri Telemetry equipment.

Project Name

Hamersley HMS
Hope Downs Project
Stage 1
Supply and Installation of
Dewatering Borefield
Booster Pump Station

Client

KBR

End User

Rio Tinto Iron Ore
Expansion Projects

Project Location

Hope Downs, WA

Services Provided

PLC, SCADA & Telemetry
development
Electrical services
Site commissioning

Key Technologies

Modicon PLCs
CitectSCADA
Miri Telemetry

Completed

April 08

PROJECT OVERVIEW

This scope of work was awarded to Applicon in addition to a previous scope involving telemetry and control of the dewatering bore field. In this case, Applicon implemented a control system to return to nature water that had been removed from the ore body, in a managed and sustainable manner. This control system was integrated into the bore field SCADA system via expansion of the wireless telemetry network.

SCOPE OF WORK

The design scope of work included preparation of a detailed functional specification, PLC programming, communications interface to motor controllers, additions to an existing HMI, RTU configuration, installation, testing, site commissioning, as-built drawings, project management and documentation.

BUSINESS IMPROVEMENTS

Key partnerships and experience with Schneider Electric (Citect and Modicon) and Miri Telemetry enabled Applicon to complete the project in minimal time.

Further delays were avoided on site during commissioning due to Applicon's integrated engineering and electrical teams who worked



together seamlessly to complete commissioning. This important capability allowed the client's electrical contractors to continue on other tasks, contributing to the complete site works being

finished ahead of schedule.

TECHNOLOGIES

- Schneider Modicon Quantum PLC
- Schneider CitectSCADA HMI
- Miri AD2006 RTU
- GE Multilin Motor Manager II



Quality
ISO 9001

SAI GLOBAL

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