

CASE STUDY

ANDERSON POINT T155 PORT EXPANSION PROJECT

PROJECT PROFILE

Fortescue's expansion to the Anderson Point stockyard and port involved the design, construction and commissioning of three new mobile machines and additional wharf berth and loading facilities to increase the ports export capacity from 45 MTPA to 155 MTPA.

The \$9 billion expansion project commenced in November 2010.

The site sits on two (2) million square metres of reclaimed land.

PRODUCTS HANDLED

- Iron ore: lump fines, super fines and special fines

CAPACITY

- Capacity depends on mix of products, rail receival arrangements and import / export mix
- The second train unloader increased Fortescue's in-load capacity to 20 MTPA
- Train unloader rate: 12,000 TPH
- Reclaimer design rate: 13,500 TPH
- Stacker design rate: 11,080 TPH
- Ship loader design rate: 13,500 TPH

PRODUCTS USED

- CCTV
- GE PLC and PPS Software
- Ethernet PROFIBUS Modbus and ANYbus networks
- Schneider MC Set High Voltage
- SEPAM Protection Relays
- Multilin Motor Management relays
- NHP and Terasaki Isolators
- ABB Variable Speed Drives
- Cimplicity SCADA
- Moxa, Planet, AXIS & Cisco network devices



SCOPE OF WORKS

- Upgrade of the train unloading system and installation of train unloader No. 3
- Installation of a new stacker, reclaimer and ship loader
- New train receival conveyor system, transfer tower and shuttle
- New export conveyor system, product hoppers & transfer tower, shuttles and surge bins
- New product sample and weigh station
- Installation on of jetty conveyors and transfer chutes
- Services include electrical, software, mechanical, civil and water reticulation

OUR INVOLVEMENT

Supervise, install and commission the electrical and control systems for all equipment for the new inloading circuit, including:

- New HV & LV reticulation and connection to existing services
- Stackers SK703 and SK704, train unloader No. 3, and conveying systems including CV917, CV927, CV932, CV935 and CV925
- Quality assurance inclusive of all testing, CVC and verifications
- Interfaces to existing plant and equipment