

DRAGLINE UPGRADE

BMA - PEAK DOWNS

Project Overview:

The project was to assist BHP in the development, testing and commissioning of Australia's first Universal Dig Dump (UDD) Dragline. In addition to the upgrade of the existing control functions the system included two new Simoreg Siemens Drives to independently control the front and rear hoist ropes.



Details:

The control system consists of a GE-FANUC 374 CPU and associated digital and analogue I/O. The PLC is connected to two Operator Interfaces located in both the PCR and Operator's Cab.

The total system consists of 1200+ Real I/O across eight racks and Genius I/O drops.

The functions of the Dragline PLC are:

- MG Set start-up / supply synchronisation
- Swing motion
- Front and Rear Hoist motions
- Drag/Propel motions
- House Fans
- Lubrication systems (9 off)
- Operator status information
- Alarm condition monitoring

PLC - 9030 across 8 off racks
 NETWORKS - Modbus, Profibus

