

Pembroke Dock Ferry Terminal Control System

Contract

- Project Cost - £4m
- Refurbishment of lower ramp actuation system
- All new upper ramp actuation system
- Control for entire terminal

Brief description of control system

- Movement of lower ramp and finger flaps
- Level correction system on main ramp
- Interlocks on safety sprag movement
- Interlocks on travel for all actuators
- Time out on movement
- Latched movement of 11 upper ramp fingers
- Advanced selection of upper ramp effective size
- Single finger overrides on ramp
- Control of two motors and pump sets
- Monitoring of power pack
- Advanced fault annunciation and interlocking system
- Advanced context sensitive system status reports

Responsibilities

- Design of terminal buoyancy system
- Design of upper ramp finger structures
- Design of all hydraulic, electrical and control systems
- Design and authoring of all PLC software
- Commissioning of all moving equipment
- Provision of all maintenance information and training

Hardware

- Mitsubishi A series PLC
- Mitsubishi Mac 5 operator terminal

