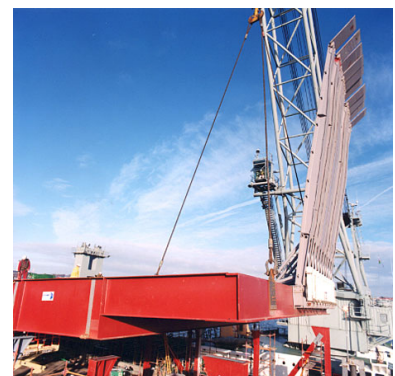


Control Systems

Pembroke Dock Ferry Terminal

Brief description of control systems

- 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

Bennett Associates (originally founded in 1984) was acquired in 2008 by Atkins; bringing their proven technical expertise to the UK's leading engineering consultancy.