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Infra-Red & Radio  
Remote Control  
Crane Systems

**COMMANDER™**

Horizontal & Vertical  
Collision Avoidance  
Crane Systems



## Case Study



### BNFL Pattern Travelling Pendant Station

- Location** United Kingdom
- Industry** Nuclear Fuel Reprocessing
- Application** Electric Overhead Travelling Crane used for Nuclear Fuel Handling.
- Project**

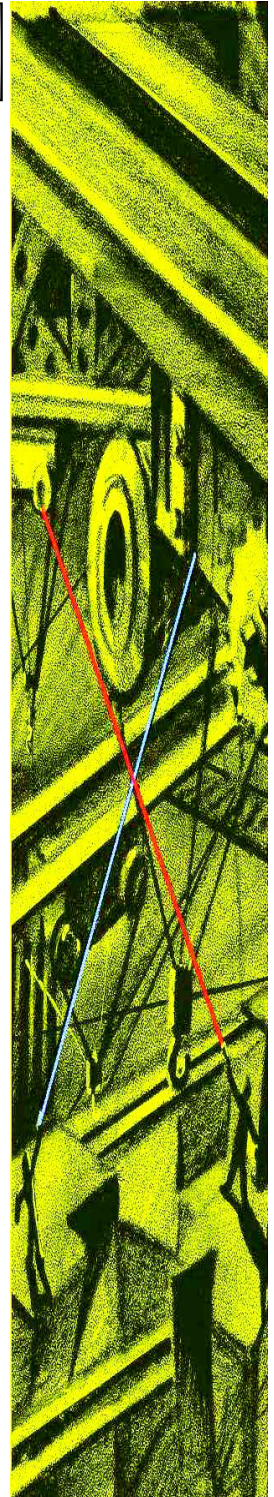
The **COMMANDER™ BNFL Pattern Pendant Station** has been designed to provide a common **BNFL** standard style layout which ensures familiarisation by operators if moving from crane to crane. The pendant station also reduces operator fatigue which can be encountered when using the outdated 'Euclid style' 3 step push button mechanism as used in the EMB pattern. The **COMMANDER™** design incorporates the use of a single joy stick mechanism with 'dead man' push to operate button incorporated in the lever design and with up to 5 speed steps being available for compatible (existing) control configurations and which are common to all crane motions with low voltage AC crane control systems. A digital image of the pendant station is shown. This Crane Pendant Controller is easily connected in place of existing traditional hard wired type of control using as described paragraph above.

#### Pictures

*This picture is  
not to scale.*

#### Functionally

Each motion is selected from a motion select push button (push to hold) and if applicable a rotary selector switch, to select the main or auxiliary load hook. Various signalling indicators can also be included on the pendant station to provide the operator with status and fault information. Protection Rails and handgrips are included and these are strategically positioned for operator comfort when using the controls. A digital load readout (LCD) can also be incorporated. On crane load monitoring hardware is not included. Pendant cable with in-built strainer wire is not included in the supply unless specifically stated.



Specialist Designers & Manufacturers of Industrial **Infra-Red** & **PLL Synthesiser Radio** Remote Control; **Infra-Red, Ultrasonic & Microwave** Collision Avoidance Systems for Horizontal & Vertical (multi-level) applications; Simplex & Duplex Data Communicators; High Integrity Control Gear for High Integrity Material Handling Applications; Designers & Manufacturers of Eddy Current Brakes & Closed Loop Controllers; CE compliant: **U.K. Designed & Manufactured.**



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