

DATE: 28 May 2024**SUBJECT: Container crane mandatory lighting requirements**

This Harbour Master's Instruction applies to both container terminal operators - **DP World and Patrick Terminal** operating at the Port of Fremantle.

Container cranes operating within Fremantle Ports are known to have a height of approximately 105 metres (above ground level - AGL). This poses significant risk to low flying aircraft such as;

- Helicopters landing and taking off from Fremantle Ports Inner Harbour berths,
- Seaside helicopter traffic for coastal beaches surveillance,
- Private helicopter operator site located in close proximity to the Inner Harbour,
- Other low flying aircraft.

With the container crane booms in a horizontal position, unlit extremities of the boom pose a significant risk to crane operators arising out of passing ships navigating within the Inner Harbour.

Fremantle Ports has engaged with the Australian Civil Aviation Safety Authority (CASA) to receive clarity regarding the applicability of obstacle lighting regulations.

As a result of the above identified risks and clarifications from CASA, all container cranes are to have mandatory lighting in accordance with the below requirements;

- Each crane must be lit with medium intensity steady red lighting at night and during low visibility. The lighting must be located as close as possible to the top of the object or structure to ensure that the lights clearly indicate at least the points or edges of the object or structure that are highest {or above the obstacle limitation surface - OLS as per section 9.31 of the Part 139 (Aerodromes) - Manual of Standards (MOS139)}. Characteristics for medium intensity lights are stated in section 9.33 of the MOS 139.
- Each crane must be lit with flashing white obstacle lighting during daylight hours. Consideration could also be given to the cranes being obstacle marked in alternating red and white bands of colour in accordance with subsection 8.110 of the MOS 139, or be painted in a conspicuous colour scheme.

The above lighting requirements are to be complied with at the earliest and in any case not later than 15 June 2024.

Any queries regarding the above process must be submitted to the email address:
harbourmaster@fremantleports.com.au



Capt. Savio Fernandes

Harbour Master