

UNIVERSAL TERMINAL (OMU)

JETTY	DEPTH A/S (m)	APPROACH DEPTH(m)	MAX LOA (m)	MAX DISPL. (tonnes)	REMARKS
OMU1	23.0	From East – 15.0 From West 22.5	346	384,604	VLCC berth
OMU2	23.0	From East – 15.0 From West 22.5	346	384,604	VLCC berth
OMU3	23.0	From East – 15.0 From West 22.5	204	61,549	
OMU5	23.4	10.7	145	19,670	
OMU6	17.3	10.7	111	8,900	
OMU7	18.7	10.7	111	8,900	
OMU8	10.2	10.7	145	19,670	
OMU9	10.7	10.7	145	19,670	
OMU10	10.7	10.7	145	19,670	
OMU11	17.7)	186	56,850	
OMU12	17.7) From East – 15.0) From West 16.5)	280	208,000	
OMU13	17.7)	186	56,850	
OMU15	10.6	10.7	145	19,670	
OMU16	11.0	10.7	145	19,670	
OMU17	10.0	10.7	102		

GENERAL INFORMATION

1. Communication : Pilot Walkie Talkie Channel- P06
: Operation room number - +65-6303-0001/2
2. OMU5 to OMU10 and OMU15 to OMU17 are jetties in the inner basin. Approaches to the entrance of the basin are subjected to cross tidal stream.
3. For vessel berthing or unberthing at OMU12, the tug recommendations are:
 - a) **Vessel with LOA 210 metres to ≤260 metres**

- i) Vessel with draft ≤ 10.5 metres – 4 big tugs
- ii) Vessel with draft >10.5 metres – 4 big tugs with at least 45 tonnes Bollard Pull

b) Vessel with LOA >260 metres

- i) 4 big tugs with least 45 tonnes Bollard Pull to be provided

4. Tug requirements for VLCCs

- (a) At least 4 big tugs should be deployed to assist VLCCs berthing and unberthing from OMU1 and 2. For VLCCs with a draft of 17m or more, all 4 tugs should have a bollard pull of at least 45 tons each.
- (b) For vessels from 250m to 280m LOA, when swinging is required, 4 big tugs should be deployed during berthing and unberthing as follows:
 - (i) Draft 15m to < 17 m ~ at least one of the tugs at the bow and at the stern should have a bollard pull of not less than 45 tons.
 - (ii) Draft ≥ 17 m ~ all 4 tugs should have a bollard pull of at least 45 tons each.
- (c) All tugs deployed to assist a vessel with draft of 17m or more in berthing or unberthing are required to have a backup towline for emergency purposes.

PILOTAGE GUIDELINES

1. BERTHING

i) OMU1 & OMU2 (VLCC berths) and OMU3

FLOOD TIDE

- a) Tidal strength ≤ 1.5 knot
No restriction
- b) Tidal strength >1.5 to 2.0 knots
Vessel with draft >17.0 metres – No berthing
- c) Tidal strength >2.0 to 2.5 knots
LOA >240 metres or draft >14 metres - No berthing
- d) Tidal strength >2.5 knots
LOA >220 metres or draft >12 metres – No berthing

EBB TIDE

- a) Tidal strength ≤ 0.5 knot
No restriction
 - b) Tidal strength > 0.5 to 1.5 knots
Vessel with draft > 15.5 metres - No berthing when approaching from the west
 - c) Tidal strength > 1.5 knots to 2.0 kts
LOA > 260 metres or draft > 14 metres - No berthing when approaching from the west
 - d) Tidal strength > 2.0 knots
LOA > 240 metres or draft > 12 metres – No berthing
- ii) **OMU 5, 6, 7, 8, 9, 10, 15, 16 and 17**

FLOOD AND EBB TIDE

- a) Tidal strength ≤ 1.5 knots
No restriction
 - b) Tidal strength > 1.5 knots to ≤ 2.5 knots
LOA > 110 metres – No berthing
 - c) Tidal strength > 2.5 knots
LOA > 90 metres – No berthing
- iii) **OMU 11, 12 & 13**

FLOOD and EBB TIDE

- a) Tidal strength ≤ 1.0 knot
LOA < 260 metres or draft ≤ 14.0 metres - No restriction
- b) Tidal strength 0.5 knot to ≤ 1.0 knot
LOA > 260 m or draft > 14.0 metres – No berthing
- c) Tidal strength > 1.0 knot
LOA > 185 metres – No berthing

2. UNBERTHING

- i) **OMU1 & OMU2 (VLCC berths) and OMU3**

FLOOD TIDE

- a) Tidal strength ≤ 0.5 knot
No restriction
- b) Tidal strength 0.5 knot to ≤ 1.5 knot

Port alongside: No restriction
Starboard alongside: Draft >17.0 metres – No unberthing

- c) Tidal strength >1.5 knot to ≤ 2.0 kts
Port side alongside: Draft >17.0 metres – No unberthing
Starboard alongside: Draft >14 metres – No unberthing
- d) Tidal strength >2.0 knots
LOA >240 metres or Draft >14 metres – No unberthing

EBB TIDE

- a) Tidal strength ≤ 0.5 knot
No restriction
- b) Tidal strength 0.5 knot to ≤ 1.5 knot
Port alongside: Draft >15.0 metres – No unberthing
Starboard alongside: No restriction
- c) Tidal strength >1.5 knot to ≤ 2.0 knots
Port alongside: Draft >14 metres – No unberthing
Starboard alongside: Draft >17.0 metres – No unberthing
- d) Tidal strength >2.0 knots
LOA >240 metres or Draft >14 metres – No unberthing

ii) OMU 5, 6, 7, 8, 9, 10, 15, 16 and 17

FLOOD and EBB TIDE

- a) Tidal strength ≤ 2.5 knots
No restriction
- b) Tidal strength >2.5 knots
LOA >90 metres: No unberthing

iii) OMU 11, 12 & 13

FLOOD and EBB TIDE

- a) Tidal strength ≤ 1.0 knot
LOA <260 metres or draft ≤ 14.0 metres - No restriction
- b) Tidal strength 0.5 knot to ≤ 1.0 knot
LOA >260m or draft ≤ 14.0 metres – No unberthing
- c) Tidal strength >1.0 knot
LOA >185 metres – No unberthing

TUG ASSIGNMENT GUIDELINES

The following are guidelines for assigning tugs to vessels berthing & unberthing at OMU1 and OMU2:

LOA(m) of vessel	No. of tugs
181 to 280m	2 big tugs (pilot may order additional tug)
>280m or GT >75,000 with draft <17m	4 big tugs
>280m or GT >75,000 with draft ≥17m	<p>(i) Draft 15 m to <17m ~ 4 big tugs with at least 2 must have a bollard pull of 45 tons or above each.</p> <p>(ii) Draft ≥17m ~ 4 big tugs each with at least 45 tons bollard pull</p> <p>(iii) All tugs assigned to assist a vessel with draft of 17m or more in berthing or unberthing are required to have a backup towline for emergency purposes.</p>

The following are guidelines for assigning tugs to vessels berthing & unberthing at OMU3:

LOA(m) of vessel	No. of tugs
Up to 70m	If required, pilot will order tug from company nominated by the agent
71 to 122m	2 small tugs (please see note below)
123 to 152m	2 small tugs (please see note below)
153 to 180m	2 medium tugs
181 to 220m	2 big tugs

The following are guidelines for assigning tugs to vessels berthing & unberthing at OMU5 to OMU10 and OMU15 to OMU17:

LOA(m) of vessel	No. of tugs
Up to 70m	1 small tug (pilot may order additional tug when tidal strength >1.5 knot)
>70m	2 small tugs (please see note below)

The following are guidelines for assigning tugs to vessels berthing & unberthing at OMU11 to OMU13:

LOA(m) of vessel	No. of tugs
Up to 70m	If required, pilot will order tug from company nominated by the agent
71 to 122m	2 small tugs (please see note below)
123 to 152 m	2 small tugs (please see note below)
153 to 180m	2 medium tugs
181 to 210m	2 big tugs
211 to 260m	(i) Draft \leq 10.5m - 4 big tugs (ii) Draft >10.5m - 4 big tugs with at least 45 tonnes bollard pull
>260m	4 big tugs with at least 45 tonnes bollard pull

Note: Vessel with a bow thruster will still be assigned a tug in that position.

Revised: 21 Apr 2015