# PILOTAGE ADVISORY COMMITTEE

## **Proposed Amendments to the Berthing Guidelines**

### Purpose

The purpose of this paper is to seek members' endorsement on the proposed amendments to the Berthing Guidelines as attached in Annex 1.

### Background

2. The proposed amendments in Annex 1 are to update the depths of Kwai Chung berths, information of Government Mooring Buoys and current operational requirements for the berthing and unberthing at the Lamma Power Station.

# Consultation

3. The paper was circulated and endorsed by all Working Group members in December 2003.

# Recommendation

4. Members are recommended to endorse the proposed amendments.

Marine Department January 2004

# **Brief Notes on Proposed Amendments to Berthing Guidelines**

Item	Description		Amendments	Reason	Implications
1.	Chapter 4	Berthing Remarks	To include depths of Kwai Chung berths as declared by the terminal operators.	Kwai Chung berths were recently dredged and the water depths were deepened. To include such information in the Guidelines as agreed by PAC on 5.9.2003.	Maximum drafts for KC berths are increased and updated.
2.	Chapter 11	Government Mooring Buoys	To update information of the government mooring buoys in harbour.	24 government mooring buoys would be removed as per MDN No. 138 of 2003 dated 6.10.2003.	None
3.	Location: HKELECT(N)	Lamma Power station north wharf	To extend the tidal window for berthing and unberthing at night time. Add extra pilot for night berthing and unberthing of 172, 198 & 250m LOA. To delete the restriction of no outer-foul for berthing of 262m LOA.	Lamma Power Station navigation channel was removed on 27.10.2003, night berthing and unberthing are	Berthing and unberthing windows are extended to night time. Two pilots for night berthing and unberthing of 172, 198 & 250m LOA. The restriction of no outer-foul for berthing of 262m LOA is deleted.

4.	Location: HKELECT(S)	Lamma Power station south wharf	To extend the tidal window for berthing and unberthing at night time. Add extra pilot for night berthing and unberthing of 172, 198 & 250m LOA.	Lamma Power Station navigation channel was removed on 27.10.2003, night	Berthing and unberthing windows are extended to night time. Two pilots for night berthing and unberthing of 172, 198 & 250m LOA.
5.	Location: KC1-8	Kwai Chung berth 1-8	To update depths of berths. To separate location codes and names for different depths at berths.	To update present depths as declared by the berth operators.	Maximum drafts for the berths are increased and updated.
	Location: KC6-7/O-F	Kwai Chung berth 6-7 outer-foul	Same as item 5.	Same as item 5.	Same as item 5.
7.	Location: KC9-14	Kwai Chung berth 9-14	Same as item 5.	Same as item 5.	Same as item 5.
	Location: KC15-20 (Provisional)	Kwai Chung berth 15-20	To amend the General Remarks.	On trial. Guidelines would be revised from time to time to reflect current operational need based on pilots' practical experience	Provisional guidelines on trial.

Note : Please refer to the attached Item 1 - 8 for details of the proposed amendment.

#### Chapter: 4 BERTHING REMARKS

- (1) Kwai Chung Terminak
  - a. Sufficient fore-and-aft clearances should be allowed for during berthing and unberthing operations. The following table shall be used to determine the clearances required:

	Minimum Clearance	
Vessel's LOA	at Each End*	<b>Remarks</b>
300m and above	25 metres	Note 2
200m to under 300m	20 metres	Note 1,2,3 & 4
Under 200m	15 metres	Note 1,2,3 & 4

- Note 1 : A mooring rope serving as back spring is needed to be in place on the appropriate bollard of the berth before the vessel is closing in and reaches a position which is about half ship breadth from the outer-side of the vessels secured at the adjacent berths. Under adverse weather conditions, such as when wind speed is above 22 knots, additional tug(s) may be called for with the consent of the Master.
- Note 2 : At the western most of KC5, KC6, KC7, KC10 and KC14, the southern most of KC4 and KC9, the northern most of KC8 and any other berth with one end open, a minimum clearance of 5 metres less than those specified in the above table would be acceptable at the end adjacent to the berth occupied by other ships, but in no circumstances should a clearance be less than 15 metres.
- Note 3 : When a vessel is required to berth alongside in a reverse direction to its approach (i.e. stern in approach), such as the cases like portside alongside to KC1, KC2, KC3, KC4, KC7, KC11, KC12, KC13 & KC14 and starboard side alongside to KC6 & KC10, and additional 5 metres clearance at both ends, more than those specified in the table above should be allowed, but it needs not be more than 25 metres.
- Note 4 : During typhoons and when visibility is less than 3 cables, terminal operators should endeavour to arrange the fore-and-aft clearance of not less than 25 metres for any length of vessel.
- \* Notwithstanding the requirements specified, Kwai Chung terminal operators should endeavour to arrange a clearance of not less than 25 metres as far as possible.

- b. Irrespective of the ship's length, a clearance of not less than 25 metres shall be maintained at the corner between berth KC1 and KC5; at the eastern most of KC6, KC7, KC10 and KC11.
- c. Under Keel Clearance (UKC) at berth and throughout the harbour passage: To ensure safe navigation, 10% UKC must be maintained throughout the entire berthing/unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. The required 10% UKC is allowed for various factors, including but not limited to the following:
  - (i.) Listing due to e.g. inadequate GM (Vessel Tender),
  - (ii.) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.
  - (iii.) Squat

#### Warning:

Owners or masters of vessels may be liable to lighten their vessels to avoid touching of bottom due to insufficient UKC.

- Berth No. \*Depth @ berth Max. Sailing or Arrival Draft @ KC Basin KC 1.2.3 & 5 14.0m 14.0m + Tide –10% UKC KC 4 & 6 12.2m 12.2m + Tide -10% UKC KC 7 & 8 14.2m 14.2m + Tide -10% UKC KC9 15.0m 15.0m + Tide -10% UKC KC 10 -14 15.5m + Tide -10% UKC 15.0m + Tide –10% UKC KC 15 - 20 15.5m 15.0m
- d. Declared Depths at Kwai Chung Berths: (KC basin maintained depth 15.0m)

Remarks:

- \* \*Depth @ berths (50m from berth to seaward) were declared and maintained by terminal operators and may subject to change. Masters, agents & operators are cautioned to check with terminal operator for updated information.
- Vessels intending to sail or arrive with draft exceeding 15.0m should submit the following information to VTC & HK Pilots in ample time for consideration.
  - (i.) Water density used for calculating the declared draft
  - (ii.) Draft at water density SG 1.017
  - (iii.) TPC (tonne per centimetre)
  - (iv.) Estimated GM @ sailing
  - (v.) Increase of draft due to squat @ 8 and 12 knots respectively
  - (vi.) Increase of draft due to heeling of 1 & 2 degrees respectively

- e. Any berthing movements within Kwai Chung, which are not in compliance with the guidelines endorsed by the PAC, should have the agreement from the Duty Pilot and/or one of the Executive Directors of HKPA. General Manager of HKPA would be responsible for coordinating with all the involved parties.
- (2) CLPTSK China Light & power (Tap Shek Kok coal wharf) Tap Shek Kok Coal wharf – If berth is partly occupied, then berth with bow pointing to each other
   @ slack water (HW+2 or LW+2 to +3, but may vary with seasons). Agents to be advised that limited anchorage off berth.
- (3) TPGAS Tai Po Town Gas berth, Tolo harbour Town gas berth, Tolo Harbour – give warning upon typhoon signal No.1 is hoisted or likely to affect HK as per pilot's advice.
- (4) EUROASIA wharf. Tsing Yi
  - a. VHF watch on ch.11 by berths' supervisor. Also ch.8,9,15,17,69,72,73 and 77 are available.
  - b. Clearance from barges would be required during berthing and unberthing.
  - c. Bridge mark/light available.
- (5) Sea trial due to the limited sea room and congest traffic flow in Hong Kong waters, sea trial will only be carried out at day light hours for safety reason. Water at West and South of Lamma Island will be a suitable location to carry out sea trial, compass adjustment and DF calibration.
- (6) Transverse thruster(s) at one end meets conditions stipulated below, not limited to, may be accepted to substitute one tug:
  - a. It is in good working condition, such that the control button can be adjusted to full power operating position.
  - b. It can run continuously for not less than 30 minutes.
  - c. It must be totally immersed in water.
  - It must not be interrupted by the operation of the main engine or other auxiliary engine.
     Note: Master should consider Pilot's recommendation to use tug even the above conditions are met, especially in adverse weather or small maneuvering area.

Vessel' s Length overall			Actual minimum Kilo Newton	
<131m	600	438	45	
131-180m	800	584	61	
181-250m	1000	730	75	
>250m	1500	1095	113	

BUOY	LOA (m.)	Draft (m.)	BUOY	LOA (m.)	Draft (m.)
'A' Buoys:					
A13	183	8.8	A60	183	7.8
A17*	183	8.5	A62	198	10.2
A29*	160	9.8	A70	170	9.9
A35*	160	9.5	A71	183	9.1
A36	160	8.1	A72	183	9.5
A38	183	7.2	A73	183	9.5
A39*	183	8.4	A74	183	9.5
A43*	183	9.0	A76	170	9.6
A46*	183	10.8	A77	183	9.5
			A78	183	9.8
'B' Buoys:					
<b>B</b> 01	120	4.8	B06	137	9.0
B02*	137	6.4	B20	137	7.3
B03*	137	6.7	B26	137	9.7
B04*	137	9.1	<b>B</b> 30	137	8.1
B05	137	7.5	B31	137	9.1

#### Chapter: 11 GOVERNMENT MOORING BUOYS

\* = Classified as Non typhoon mooring buoy

### Remarks:

	'A' buoy	'B' buoy
Normal weather max. length Typhoon class max. length Swinging radius	183m 183m 214m	138m 113m 168m
Buoy link diameter	146mm	146mm

The location and sounding of the GMBs are subject to change without notice. Agents/Operators are cautioned to check with Mardep for updated information when booking GMB.

Location: HKELECT(N)

Lamma power station north wharf

010BerthingLOA: Max 153mDraft:Max. 9.5m (min 15% UKC)Time:Day light onlyTugs:2Remarks:Any side to.

020	Berthing	LOA: Max 172m		
Draft:	Max. 10.66m	(min 15% UKC)		
Time:	Day HW-0.5 to LW-1			
Tugs:	2			
<b>Remarks:</b>	Starboard sid	e to.		

030	Berthing I	LOA: Max 198m
Draft:	Max. 11.5m (n	nin 15% UKC)
Time:	Day HW-0.5 to	0 LW-1
	Day HW-0.5 t	to HW+0.5 when
	outerfoul.	
Tugs:	3 incl. 2 est.	
<b>Remarks:</b>	Starboard side	to.

011	Unberthing	LOA: Max 153m
Draft:	Max. 9.5m (mi	n 15% UKC)
Time:	Day light only	
Tugs:	2	
<b>Remarks:</b>		

021	Unberthing	LOA: Max 172m
Draft:	Max. 10.66m	(min 15% UKC)
Time:	Day light only	7
Tugs:	2	
<b>Remarks</b> :		

031	Unberthing	LOA: Max 198m
Draft:	Max. 11.5m (	min 15% UKC)
Time:	Day light only	У

**Tugs:** 2. If D>9m 3 **Remarks:** 

040	Berthing	LOA: Max 250m	041	Unberthing I	LOA: Max 250m
Draft:	Max. 13.89n	n (min 15% UKC)	Draft:	Max. 13.89m (m	in 15% UKC)
Time:	Day HW-0.5	to LW-1	Time:	Day light only	
	Day HW-0.5	5 to HW+0.5 when			
	outerfoul.				
Tugs:	4 incl. 2 est.		Tugs:	3. If D>10m 4	
Remarks:	Starboard sid	de to.	Remarks	5:	

050	Berthing	LOA: Max 262m	051	Unberthing	LOA: Max 262m
Draft:	Max. 13.891	m (min 15% UKC)	Draft:	Max. 13.89m	(min 15% UKC)
Time:	Day HW-0.5	5 to HW+0.5	Time:	Day light only	y
Tugs:	4 incl. 2 est.		Tugs:	3. If D>10m 4	Ļ
Remarks	: 2 pilots. St	arboard side to.	Remark	s: 2 pilots.	
	No outer-fo	ul.			
	Not exceeding	ng 100,000 DWT.			

### **Berthing Guidelines**

Location: HKELECT(N)

Lamma power station north wharf

010 Berthing LOA: Max 153m Draft: Max. 9.5m (min 15% UKC) Time: 24 hours Tugs: 2 Remarks:

020	Berthing	LOA: Max 172m
Draft:	Max. 10.66m	n (min 15% UKC)
Time:	D&N HW-0.	5 to LW-1
Tugs:	2	
<b>Remarks:</b>	Starboard sic	le to.
	Day: 1 pilo	t
	Night: 2 pilo	ts

030	Berthing LOA: Max 198m			
Draft:	Max. 11.5m (min 15% UKC)			
Time:	D&N HW-0.5 to LW-1			
	D&N HW-0.5 to HW+0.5 when			
	outerfoul.			
Tugs:	3 incl. 2 est.			
<b>Remarks:</b>	Starboard side to.			
	Day: 1 pilot			
	Night: 2 pilots			

040	Berthing	LOA: Max 250m
Draft:	Max. 13.89	m (min 15% UKC)
Time:	D <mark>&amp;N</mark> HW-	0.5 to LW-1
	D <mark>&amp;N</mark> HW-	0.5 to HW+ $0.5$ when
	outerfoul.	
Tugs:	4 incl. 2 est	t.
<b>Remarks:</b>	Starboard s	ide to.
	Day: 1 pilot	t
	Night: 2 pil	ots

050	Berthing	LOA: Max 262m
Draft:	Max. 13.89m	(min 15% UKC)
Time:	D&N HW-0.	5 to HW+0.5
Tugs:	4 incl. 2 est.	
<b>Remarks:</b>	2 pilots. Sta	rboard side to.
	Not exceeding	g 100,000 DWT.

011	Unberthing	LOA: Max 153m
Draft:	Max. 9.5m (m	in 15% UKC)
Time:	24 hours	
Tugs:	2	
<b>Remarks</b> :	:	

021 Unberthing LOA: Max 172m Draft: Max. 10.66m (min 15% UKC) Time: 24 hours Tugs: 2 Remarks: Night: Draft >8.5m 2 pilots

031	Unberthing	LOA: Max 198m
Draft:	Max. 11.5m (1	min 15% UKC)
Time:	24 hours	

Tugs: 2. If Draft>9m 3 Remarks: Night: Draft >8.5m 2 pilots

041	Unberthing	LOA: Max 250m
Draft:	Max. 13.89m	(min 15% UKC)
Time:	24 hours	

Tugs: 3. If Draft>10m 4 Remarks: Day: 1 pilot Night: 2 pilots

051	Unberthing	LOA: Max 262m
Draft:	Max. 13.89m	(min 15% UKC)
Time:	24 hours	
Tugs:	3. If Draft>10	m 4
Remarks	2 pilots.	

Location : HKELECT(S)

Lamma power station south wharf

010 Berthing LOA: Max 153m Max. 9.5m (min 15% UKC) **Draft:** Day light only Time: **Tugs:** 2 **Remarks:** Any side to.

011	Unberthing	LOA: Max 153m
Draft:	Max. 9.5m (mi	n 15% UKC)
Time:	Day light only	
Tugs:	2	
<b>Remarks:</b>		

LOA: Max 172m

020	Berthing	LOA: Max 172m	021	Unberthing	LOA: Max 172n
Draft:	Max. 10.66n	n (min 15% UKC)	Draft:	Max. 10.66m	(min 15% UKC)
Time:	Day HW-0.5	to LW-1	Time:	Day light only	7
Tugs:	2		Tugs:	2	
Remarks	Starboard sic	le to.	Remarks	S:	

030	Berthing	LOA: Max 198m	031	Unberthing	LOA: Max 198m
Draft:	Max. 11.5m	(min 15% UKC)	Draft:	Max. 11.5m (m	nin 15% UKC)
Time:	Day HW-0.5	to LW-1	Time:	Day light only	
Tugs:	3 incl. 2 est.		Tugs:	2. If D>9m 3	
<b>Remarks:</b>	Starboard sid	le to.	Remarks	:	

040	Berthing	LOA: Max 250m
Draft:	Max. 13.89m	(min 15% UKC)
Time:	Day HW-0.5	to LW-1
Tugs:	4 incl. 2 est.	
<b>Remarks:</b>	Starboard sid	e to.

041	<b>Unbert hing</b>	LOA: Max 250m
Draft:	Max. 13.89m	(min 15% UKC)
Time:	Day light only	7
Tugs:	3. If D>10m 4	
<b>Remarks</b> :	1	

050	Berthing	LOA: Max 262m	051	Unberthing	LOA: Max 262m
Draft:	Max. 13.89r	n (min 15% UKC)	Draft:	Max. 13.89m	(min 15% UKC)
Time:	Day HW-0.5	5 to HW+0.5	Time:	Day light only	4
Tugs:	4 incl. 2 est.		Tugs:	3. If D>10m 4	
Remarks	1	arboard side to. ng 100,000 DWT.	Remarks	s:2 pilots.	

### **Berthing Guidelines**

Location : HKELECT(S)

Lamma power station south wharf

010 Berthing LOA: Max 153m Draft: Max. 9.5m (min 15% UKC) Time: 24 hours Tugs: 2 Remarks:

011	Unberthing	LOA: Max 153m
Draft:	Max. 9.5m (m	in 15% UKC)
Time:	24 hours	
Tugs:	2	
<b>Remarks:</b>		

020	Berthing	LOA: Max 172m
Draft:	Max. 10.66	om (min 15% UKC)
Time:	D <mark>&amp;N</mark> HW-	0.5 to LW-1
Tugs:	2	
<b>Remarks:</b>	Starboard s	ide to.
	Day: 1 pi	lot
	Night: 2 pil	ots

021UnberthingLOA: Max 172mDraft:Max. 10.66m (min 15% UKC)Time:24 hoursTugs:2Remarks: Night: Draft >8.5m 2 pilots

030	Berthi	ng	LOA: Max 198m
Draft:	Max. 1	1.5m	(min 15% UKC)
Time:	D <mark>&amp;N</mark> I	HW-0	0.5 to LW-1
Tugs:	3 incl.	2 est.	
<b>Remarks:</b>	Starbo	ard si	de to.
	Day:	1 pilo	ot
	Night:	2 pilo	ots

031	Unberthing	LOA: Max 198m
Draft:	Max. 11.5m (r	nin 15% UKC)
Time:	24 hours	
Tugs:	2. If Draft>9m	n 3
<b>Remarks</b> :	Night: Draft >	-8.5m 2 pilot

040	Berthing	LOA: Max 250m
Draft:	Max. 13.8	9m (min 15% UKC)
Time:	D <mark>&amp;N</mark> HW	-0.5 to LW-1
Tugs:	4 incl. 2 e	st.
<b>Remarks:</b>	Starboard	side to.
	Day: 1 p	vilot
	Night: 2 p	ilots

041	<b>Unberthing</b> LOA: Max 250m
Draft:	Max. 13.89m (min 15% UKC)
Time:	24 hours
Tugs:	3. If Draft>10m 4
<b>Remarks:</b>	Day: 1 pilot
	Night: 2 pilots

050	Berthing	LOA: Max 262m
Draft:	Max. 13.89	m (min 15% UKC)
Time:	D <mark>&amp;N</mark> HW-	0.5 to HW+0.5
TT.	4. 1.0	

Tugs: 4 incl. 2 est.

**Remarks:** 2 pilots. Starboard side to. Not exceeding 100,000 DWT.

051	Unberthing	LOA: Max 262m
Draft:	Max. 13.89m (1	min 15% UKC)
Time:	24 hours	
Tugs:	3. If Draft>10m	n 4
<b>Remarks:</b>	2 pilots.	

Location: KC1-8

#### Kwai Chung berth 1-8

010 Berthing LOA: Max 130m **Draft:** Max. 12.2m + tide - 10% UKCTime: 24 hrs. Tugs: 1. If D>8m 2 Remarks: Ro-Ro vessel 2 tugs if adverse weather.

011	Unberthing L(	OA: Max 130m
Draft:	Max. $12.2m + tide$	e – 10% UKC
Time:	24 hrs.	
Tugs:	1. If no anchor do	wn 2.
Remarks	Ro-Ro vessel 2	tugs if adverse
	weather.	

020	Berthing LOA: Max 230m	021	<b>Unberthing</b> LOA: Max 230m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2	Tugs:	2
Remarks	:	Remarks	5:

030	Berthing	LOA: Max 270m	031	Unberthing	LOA: Max 270m
Draft:	Max. 12.2m	+ tide - 10% UKC	Draft:	Max. 12.2m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:		est. if no bow thruster.	Tugs:	2. 1 if bow &	stern thrusters fitted.
	I if bow & st	tern thrusters fitted.			
Remarks	:		Remarks	5:	

040	Berthing LOA: Max 350m	041	Unberthing LOA: Max 350m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	s:

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i.) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii.) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

#### Warning:

#### **Berthing Guidelines**

Location: KC1235

Kwai Chung berth 1, 2, 3 & 5

(Declared Depth 14.0m)

010 Draft: Time: Tugs: Remarks:	Berthing LOA: Max 130m Max. 14.0m + tide – 10% UKC 24 hrs. 1. If Draft>8m 2 Ro-Ro vessel 2 tugs if adverse weather.	011 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 130m Max. 14.0m + tide – 10% UKC 24 hrs. 1. If no anchor down 2. Ro-Ro vessel 2 tugs if adverse weather.
020 Draft: Time: Tugs: Remarks:	<b>Berthing</b> LOA: Max 230m Max. 14.0m + tide – 10% UKC 24 hrs. 2	021 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 230m Max. 14.0m + tide – 10% UKC 24 hrs. 2
030 Draft: Time: Tugs: Remarks:	Berthing LOA: Max 270m Max. 14.0m + tide – 10% UKC 24 hrs. 2 incl. 1 GI est. if no bow thruster. 1 if bow & stern thrusters fitted.	031 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 270m Max. 14.0m + tide – 10% UKC 24 hrs. 2. 1 if bow & stern thrusters fitted.
040 Draft: Time: Tugs:	<ul> <li>Berthing LOA: Max 350m</li> <li>Max. 14.0m + tide - 10% UKC</li> <li>24 hrs.</li> <li>3 incl. 1 GI est. if no bow thruster.</li> <li>1 if bow &amp; stern thrusters fitted.</li> </ul>	041 Draft: Time: Tugs:	Unberthing LOA: Max 350m Max. 14.0m + tide – 10% UKC 24 hrs. 2. 1 if bow & stern thrusters fitted.

#### **Remarks:**

#### **General Remarks:**

**Remarks:** 

- ≻
- Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals. Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & ≻ HK Pilots in ample time for consideration.

Location: KC1-8

#### Kwai Chung berth 1-8

010 Berthing LOA: Max 130m Draft: Max. 12.2m + tide – 10% UKC Time: 24 hrs. Tugs: 1. If D>8m 2 Remarks: Ro-Ro vessel 2 tugs if adverse weather.

011	Unberthing	LOA: M	lax 130m
Draft:	Max. $12.2m + t$	ide – 109	%UKC
Time:	24 hrs.		
Tugs:	1. If no anchor	down 2.	
<b>Remarks:</b>	Ro-Ro vessel	2 tugs i	f adverse
	weather.	-	

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max. 12.2m	+ tide – 10% UKC	Draft:	Max. 12.2m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks	:		Remarks	5:	

030	Berthing LOA: Max 270m	031	<b>Unberthing</b> LOA: Max 270m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	S:

040	Berthing LOA: Max 350m	041	Unberthing LOA: Max 350m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	<b>Tugs:</b>	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	s:

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i.) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii.) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

Warning:

### **Berthing Guidelines**

Location: KC46

Kwai Chung berth 4 & 6

(Declared Depth 12.2m)

010	Berthing LOA: Max 130m	011	<b>Unberthing</b> LOA: Max 130m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	1. If Draft>8m 2	<b>Tugs:</b>	1. If no anchor down 2.
Remarks	: Ro-Ro vessel 2 tugs if adverse	Remarks	Ro-Ro vessel 2 tugs if adverse
	weather.		weather.

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max. 12.2m	+ tide - 10% UKC	Draft:	Max. 12.2m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks	:		Remarks	5:	

030	Berthing LOA: Max 270m	031	Unberthing LOA: Max 270m
Draft:	Max. 12.2m + tide - 10% UKC	Draft:	Max. 12.2m + tide - 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	S:

040	Berthing LOA: Max 350m	041	Unberthing LOA: Max 350m
Draft:	Max. 12.2m + tide - 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	5:

### **General Remarks:**

Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals

Location: KC1-8

#### Kwai Chung berth 1-8

010 Berthing LOA: Max 130m Draft: Max. 12.2m + tide – 10% UKC Time: 24 hrs. Tugs: 1. If D>8m 2 Remarks: Ro-Ro vessel 2 tugs if adverse weather.

011	Unberth	ing	LOA: N	Max	130m
Draft:	Max. 12.	.2m + t	ide – 10	)%U	KC
Time:	24 hrs.				
Tugs:	1. If no a	nchor	down 2	•	
<b>Remarks:</b>	Ro-Ro v	vessel	2 tugs	if a	adverse
	weather.		•		

020	Berthing LOA:	Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max. 12.2m + tide -	- 10% UKC	Draft:	Max. 12.2m +	tide-10%UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks			Remarks	:	

030	Berthing LOA: Max 270m	031	Unberthing LOA: Max 270m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow thruster. 1 if bow & stern thrusters fitted.	Tugs:	2. 1 if bow & stern thrusters fitted.
Remarks		Remarks	S:

040	Berthing LOA: Max 350m	041	Unberthing LOA: Max 350m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	s:

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i.) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii.) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

Warning:

#### **Berthing Guidelines**

Location: KC78

Kwai Chung berth 7 & 8

(Declared Depth 14.2m)

010 Draft: Time: Tugs: Remarks:	Berthing LOA: Max 130m Max. 14.2m + tide – 10% UKC 24 hrs. 1. If Draft>8m 2 Ro-Ro vessel 2 tugs if adverse weather.	011 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 130m Max. 14.2m + tide – 10% UKC 24 hrs. 1. If no anchor down 2. :Ro-Ro vessel 2 tugs if adverse weather.
020 Draft: Time: Tugs: Remarks:	<b>Berthing</b> LOA: Max 230m Max. 14.2m + tide – 10% UKC 24 hrs. 2	021 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 230m Max. 14.2m + tide – 10% UKC 24 hrs. 2
030 Draft: Time: Tugs: Remarks	Berthing LOA: Max 270m Max. 14.2m + tide – 10% UKC 24 hrs. 2 incl. 1 GI est. if no bow thruster. 1 if bow & stern thrusters fitted.	031 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 270m Max. 14.2m + tide – 10% UKC 24 hrs. 2. 1 if bow & stern thrusters fitted.
040 Draft: Time: Tugs:	<b>Berthing</b> LOA: Max 350m Max. 14.2m + tide – 10% UKC 24 hrs. 3 incl. 1 GI est. if no bow thruster.	041 Draft: Time: Tugs:	Unberthing LOA: Max 350m Max. 14.2m + tide – 10% UKC 24 hrs. 2. 1 if bow & stern thrusters fitted.

3 incl. 1 GI est. if no bow thruster. **Tugs:** 2. 1 if bow & stern thrusters fitted.

**Remarks:** 

**Remarks:** 

- $\blacktriangleright$  Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.
- Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & HK Pilots in ample time for consideration.

PAC endorsed on 5 September 2003

Location: KC6-7/O-F

Kwai Chung berth 6-7 outer-foul

010	Berthing LOA: Max 250m	011	Unberthing LOA: Max 250m
Draft:	Max. 12.2m + tide – 10% UKC	Draft:	Max. 12.2m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2	Tugs:	2
Remarks	: Thruster not considered.	Remarks	S: Thrusters not considered.
020 Draft: Time: Tugs: Remarks	Berthing LOA: Max 290m Max. 12.2m + tide – 10% UKC 24 hrs. 3 : No stern in. Full length of opposite berth must	021 Draft: Time: Tugs: Remarks	Unberthing LOA: Max 290m Max. 12.2 m + tide – 10% UKC 24 hrs. 2 S: Thrusters not considered.

be clear.

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

Warning:

### **Berthing Guidelines**

Location: KC6/O-F

Kwai Chung berth 6 outer-foul

(Declared Depth 12.2m)

010 Berthing LOA: Max 250m Draft: Max.12.2m + tide - 10% UKC Time: 24 hrs. Tugs: 2 Remarks: Thrusters not considered 011UnberthingLOA: Max 250mDraft:Max.12.2m + tide - 10% UKCTime:24 hrs.Tugs:2Remarks: Thrusters not considered

020	Berthing LOA: Max 290m	021	<b>Unberthing</b> LOA: Max 290m
Draft:	Max.12.2m + tide - 10% UKC	Draft:	Max.12.2m + tide - 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3	Tugs:	2
Remarks	No stern in.	Remarks	Thrusters not considered
	Full length of opposite berth must		
	be clear.		

#### **General Remarks:**

Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.

PAC endorsed on 5 September 2003

Location: KC6-7/O-F

Kwai Chung berth 6-7 outer-foul

010	Berthing	LOA: Max 250m	011	Unberthing	LOA: Max 250m
Draft:	Max. 12.2m	n + tide – 10% UKC	Draft:	Max. 12.2m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks	: Thruster not	considered.	Remark	s: Thrusters not	considered.

020	Berthing	LOA: Max 290m	021	Unberthing	LOA: Max 290m
Draft:	Max. 12.2m	h + tide - 10% UKC	Draft:	Max. 12.2m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	3		<b>Tugs:</b>	2	
Remarks	No stern in.		Remark	s: Thrusters not	considered.
	Full length o	of opposite berth must			
	be clear.				

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

#### Warning:

#### **Berthing Guidelines**

Location: KC7/O-F

Kwai Chung berth 7 outer-foul

(Declared Depth 14.2m)

010BerthingLOA: Max 250mDraft:Max.14.2m + tide - 10% UKCTime:24 hrs.Tugs:2Remarks:Thrusters not considered

011UnberthingLOA: Max 250mDraft:Max.14.2m + tide - 10% UKCTime:24 hrs.Tugs:2Remarks:Thrusters not considered

020	Berthing LOA:	Max 290m	021	Unberthing	LOA: Max 290m
Draft:	Max.14.2m + tide -	- 10% UKC	Draft:	Max.14.2m +	tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	3		Tugs:	2	
Remarks	No stern in.		Remarks	Thrusters not	considered
	Full length of oppos	site berth must			
	be clear.				

- $\blacktriangleright$  Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.
- Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & HK Pilots in ample time for consideration.

PAC endorsed on 17 January 2003

LOA: Max 130m

Location: KC9-14

Kwai Chung berth 9-14

011

010	Berthing	LOA: Ma	ax 130m
Draft:	Max. 13.8m	+ tide $-$ 10	)%UKC
Time:	24 hrs.		
Tugs:	1. If D>8m 2		
<b>Remarks:</b>	Ro-Ro vesse	l 2 tugs i	f adverse

Draft:	Max. 13.8m + tide – 10% UKC
Time:	24 hrs.
Tugs:	1. If no anchor down 2
Remarks	s:Ro-Ro vessel 2 tugs if adverse
	weather.

Unberthing

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max. 13.8m	+ tide - 10% UKC	Draft:	Max. 13.8m +	tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		<b>Tugs:</b>	2	
Remarks	:		Remarks	s:	

030	Berthing LOA: Max 270m	031	Unberthing LOA: Max 270m
Draft:	Max. 13.8m + tide – 10% UKC	Draft:	Max. 13.8m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow	Tugs:	2. 1 if bow & stern thrusters
	thruster.		fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	5:

040	Berthing LOA: Max 350m	041	Unberthing LOA: Max 350m
Draft:	Max. 13.8m + tide – 10% UKC	Draft:	Max. 13.8m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
<b>Remarks:</b> L>230m stern in 3 tugs.		Remarks	S:

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (i) Listing due to e.g. inadequate GM (Vessel Tender),
- (ii) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

#### Warning:

LOA: Max 130m

### **Berthing Guidelines**

Location: KC9

Kwai Chung berth 9

(Declared Depth 15.0m)

010	Berthing	LOA: Max 130m	011
Draft:	Max.15.0m+	tide – 10% UKC	Draft:
Time:	24 hrs.		Time:
Tugs:	1. If Draft>8n	n 2	<b>Tugs:</b>
<b>Remarks</b> :		2 tugs if adverse	Remar
	weather.		

Draft:	Max.15.0m + tide - 10% UKC
Time:	24 hrs.
Tugs:	1. If no anchor down 2
<b>Remarks:</b>	Ro-Ro vessel 2 tugs if adverse
	weather.

Unberthing

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max.15.0m+	- tide – 10% UKC	Draft:	Max.15.0m+	tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks:	:		Remarks		

030	Berthing LOA: Max 270m	031	<b>Unberthing</b> LOA: Max 270m
Draft:	Max.15.0m + tide - 10% UKC	Draft:	Max.15.0m + tide - 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow	Tugs:	2. 1 if bow & stern thrusters
	thruster.		fitted.
	1 if bow & stern thrusters fitted.		
Remarks	: L>230m stern in 3 tugs.	Remarks	:
	-		

040	Berthing LOA: Max 350m	041	<b>Unberthing</b> LOA: Max 350m
Draft:	Max.15.0m + tide - 10% UKC	Draft:	Max.15.0m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	s:

- Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.
- Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & HK Pilots in ample time for consideration.

PAC endorsed on 17 January 2003

LOA: Max 130m

Location: KC9-14

Kwai Chung berth 9-14

011

010	Berthing	LOA: Max 130m
Draft:	Max. 13.8m	+ tide $-10%$ UKC
Time:	24 hrs.	
Tugs:	1. If D>8m 2	2
<b>Remarks:</b>	Ro-Ro vesse	el 2 tugs if adverse

<b>D</b>						
Draft:	Max. 1.	3.8m +	tid	le - 10	)%	UKC
Time:	24 hrs.					
Tugs:	1. If no	anchor	do	wn 2		
Remarks:	Ro-Ro weather		2	tugs	if	adverse
	weather					

Unberthing

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max. 13.8m	+ tide – 10% UKC	Draft:	Max. 13.8m +	- tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks	:		Remarks	s:	

030	Berthing LOA: Max 270m	031	Unberthing LOA: Max 270m
Draft:	Max. 13.8m + tide – 10% UKC	Draft:	Max. 13.8m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow	Tugs:	2. 1 if bow & stern thrusters
	thruster.		fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remarks	s:

040	<b>Berthing</b> LOA:	Max 350m	041	Unberthing	LOA: Max 350m
Draft:	Max. 13.8m + tide -	10%UKC	Draft:	Max. 13.8m +	tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	3 incl. 1 GI est. if no	bow thruster.	Tugs:	2. 1 if bow & s	stern thrusters fitted.
	1 if bow & stern thru	sters fitted.			
Remarks	L>230m stern in 3 t	ugs.	Remarks	5:	

#### **General Remarks:**

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal conditions. The tidal height to be used for calculating the maximum allowable draft should be the lowest within the 2 hours period during the berthing/unberthing operation. Ample margin must be allowed for the following when calculating the effective UKC:

- (iii) Listing due to e.g. inadequate GM (Vessel Tender),
- (iv) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

#### Warning:

### **Berthing Guidelines**

Location: KC10-14

Kwai Chung berth 10-14

(Declared Depth 15.5m)

Berthing LOA: Max 130m
Max.15.0m + tide - 10% UKC
24 hrs.
1. If Draft>8m 2
Ro-Ro vessel 2 tugs if adverse weather.

011	Unberthing LOA: Max 130m
Draft:	Max.15.0m + tide - 10% UKC
Time:	24 hrs.
Tugs:	1. If no anchor down 2
Remarks	Ro-Ro vessel 2 tugs if adverse
	weather.

020	Berthing	LOA: Max 230m	021	Unberthing	LOA: Max 230m
Draft:	Max.15.0m +	- tide – 10% UKC	Draft:	Max.15.0m+	tide – 10% UKC
Time:	24 hrs.		Time:	24 hrs.	
Tugs:	2		Tugs:	2	
Remarks:			Remarks	5:	

030	Berthing LOA: Max 270m	031	<b>Unberthing</b> LOA: Max 270m
Draft:	Max.15.0m + tide - 10% UKC	Draft:	Max.15.0m + tide - 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	2 incl. 1 GI est. if no bow	Tugs:	2. 1 if bow & stern thrusters
	thruster.		fitted.
	1 if bow & stern thrusters fitted.		
<b>Remarks</b> :	: L>230m stern in 3 tugs.	Remarks	:
	-		

040	Berthing LOA: Max 350m	041	<b>Unberthing</b> LOA: Max 350m
Draft:	Max.15.0m + tide – 10% UKC	Draft:	Max.15.0m + tide - 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster.	Tugs:	2. 1 if bow & stern thrusters fitted.
	1 if bow & stern thrusters fitted.		
Remarks	:	Remark	s:

- Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.
- Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & HK Pilots in ample time for consideration.

# **ON TRIAL**

# **Provisional berthing guideline for CT9**

#### **Berthing Guidelines**

Updated December 2003

LOA: Max 230m

LOA: Max 270m

Location: KC15-20

Kwai Chung berth 15-20

(Declared Depth 15.5m)

021

Draft: Time:

**Tugs:** 

031

**Draft:** 

Time:

**Tugs:** 

010	Berthing	LOA: Max 130m
Draft:	Max.15.0m+	tide – 10% UKC
Time:	24 hrs.	
Tugs:	1. If Draft>8n	n 2
<b>Remarks:</b>	If Swing arou	und &/or wedge-in
	min. 2 tugs	

011	Unberthing	LOA: Max 130m
Draft:	Max.15.0m+	tide – 10% UKC
Time:	24 hrs.	
Tugs:	1. If no ancho	r down 2
Remarks	If swing arour	nd min. 2 tugs

Max.15.0m + tide - 10% UKC

Max.15.0m + tide - 10% UKC

2. 1 if bow & stern thrusters fitted.

Unberthing

Unberthing

24 hrs.

Remarks: If swing around min. 2 tugs

Remarks: If swing around min. 2 tugs

24 hrs.

2

020	Berthing	LOA: Max 230m
Draft:	Max.15.0m+	tide – 10% UKC
Time:	24 hrs.	
Tugs:	2	
<b>Remarks:</b>	If Swing aro	und &/or wedge-in

min. 2 tugs

030	Berthing	LOA: Max 270m
Draft:	Max.15.0m+	- tide – 10% UKC
Time:	24 hrs.	
Tugs:	2 incl. 1 GI est	t. if no bow thruster.
-	1 if bow & ste	rn thrusters fitted.
<b>Remarks:</b>	Min. 2 tugs d	uring on trial

040 <b>Draft:</b>	Berthing LOA: Max 352m Max.15.0m + tide – 10% UKC	041 <b>Draft:</b>	Unberthing LOA: Max 352m Max.15.0m + tide – 10% UKC
Time:	24 hrs.	Time:	24 hrs.
Tugs:	3 incl. 1 GI est. if no bow thruster. 1 if bow & stern thrusters fitted.	Tugs:	2. 1 if bow & stern thrusters fitted.
Remarks: Min. 2 tugs during on trial		Remarks: If swing around min. 2 tugs	

- Please see Chapter 4(1) Berthing Remarks for Kwai Chung Terminals.
- Vessels intending to sail or arrive with draft exceeding 15.0m should inform VTC & HK Pilots in ample time for consideration.