## **BY CIRCULATION**

PAC Paper No. 6/2002

## 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 detailed in Annex 1.

# **Background**

2. The proposed amendments printed in red in Annex 1 are to reflect current operational requirements and to update information of Government Mooring Buoys and various berthing facilities.

## Recommendation

3. Members are recommended to endorse the proposed amendments.

Pilotage Unit Vessel Traffic Section Vessel Traffic Services Branch Marine Department December 2002

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

Item	Descrip	otion	Amendments	Implications
1.	Chapter 2	General Remarks	Add remark for tugs requirement explanation and under-keel clearance	Add remark for tugs requirement explanation and under-keel clearance.
2.	Chapter 4 & Location: KC1-8 & Location: KC6-7/O-F & Location: 9-14	Kwai Chung Terminal	To increase maximum allowable draft at Kwai Chung Terminal	To take full advantage of tidal height so as to increase the maximum allowable draft at Kwai Chung Terminal. Vessels must however ensure no delay in the berthing/unberthing schedule and comply with the conditions set out in the guidelines.
3.	Chapter 11 & Location: Buoy	Government Mooring Buoys	To delete withdrawn mooring buoys A41, A45 and B27.	None
4.	Location: CRC-A	China Resources T/Y main berth (A)	New Classifications according to vessels LOA and draft. To extend tidal window, and relax tug requirements.	(i) LOA 180-184m Draft 10-12m Berthing window: extended to 24 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated.  (ii) LOA 184-220m Draft 10-13m Berthing window: extended by 5 hours.  Draft <11m Berthing Tug: reduced by 1. Remarks: 2 pilots for berthing at LW.  (iii) LOA 230-250m Berthing window: extended by 5 hours Tug: reduced by 1.
5.	Location: CTX	Caltex T/Y main berth	New Classifications	(i) LOA 180-184m Draft < 12m
		muni ociui	according to vessels LOA	Berthing window: extended by 2 hours

			and draft, extend tidal window, and relax tug requirements.	Berthing Tug: reduced by 1.  (ii) LOA 184-220m Berthing window: extended by 2 hours  Draft < 11m Berthing tug reduced by 1.  (iii) LOA 220-235m Berthing window: extended by 2 hours.  Tug: reduced by 1.
6.	Location: CTX-LPG	Caltex T/Y LPG berth	Amendments on berthing & unberthing and tug requirement.	Unberthing window: extended to 24 hours.  (i) LOA 80m
7.	Location: ESSO	Esso Oil Terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	(i) LOA 180-184m Draft 10-12m Berthing window: extended to 24 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated.  (ii) LOA 184-220m Draft 10-13m Berthing window: extended by 5 hours.  Draft <11m Berthing Tug: reduced by 1. Remarks: 2 pilots for berthing at LW.  (iii) LOA 230-250m Berthing window: extended by 5 hours Tug: reduced by 1.  (iv) LOA 250-274m Berthing Time: extended by 5 hours.

8.	Location: MOBIL	Mobil Oil Terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	(ii)	LOA 180-184m Draft <12m Berthing window: extended by 3 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated.  LOA 184-220m Draft 10-13m Berthing window: extended by 3 hours.  Draft <11m Berthing Tug: reduced by 1.
				(iii)	Remarks: 2 pilots for berthing at LW.  LOA 230-250m Berthing window: extended by 3 hours  Tug: reduced by 1.
9.	Location: SHELL	Shell oil terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	(ii) (iii)	LOA 120-150m Berthing window: change tidal window  LOA 180-184m Draft <12m Berthing window: extended by 3 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated.  LOA 184-220m Draft 10-13m Berthing window: extended by 2 hours.  Draft <11m Berthing Tug: reduced by 1. Remarks: 2 pilots for berthing at LW.  LOA 230-245m Berthing window: extended by 2 hours Tug: reduced by 1.

10.	Location: TPGAS	Tolo Harbour Town Gas wharf	Add new section for vessels up to 228m and redefined period of "Day light".	Increased maximum size of vessel to 228m.
11.	Location: OTN	Ocean Terminal North Berth	To change the location code.	None
12.	Location: OTNO	Ocean Terminal North Berth Outer-foul	To change the location code and number of pilots required for vessels over 230m.	LOA >230m Requirement for extra pilot lifted.
13.	Location: OTS	Ocean Terminal South Berth	To change the location code.	None
14.	Location: OTSO	Ocean Terminal South Berth Outer-foul	To change the location code.	None

Note: Please refer to the attached Items 1-14 for details of the proposed amendments

## Chapter: 2 **GENERAL REMARKS**

- (1) These guidelines should be construed as the operations to be performed are conducted under normal conditions with due regards to weather, ship maneuverability, sea and swell etc.
- (2) The conditions hereto as regards to the number of tugs deployed and the working parameter require are based on the experience gained by pilot members in normal weather, sea and swell, and ship's manoeuvring conditions; and are deemed to be the minimum requirements as such. Should the condition and circumstances be changed which may affect any working parameter; the pilot may at his discretion to amend any requirements therein. Any additional tug in excess of the said requirement as required by the Master and/or ship's operators to enhance the safety be concurred and encouraged by **all pilots**. When two or more Grade II tugs are stipulated in the Berthing Guidelines, they should not be replaced by 1 Grade I tug.
- (3) Transverse thruster or thrusters in good working condition at one end may be accepted to substitute for one tug. Transverse thruster with under-power will not be considered as equivalence to one tug.
- (4) An under-keel clearance of 10% of the vessel's deepest draught is required in manoeuvring basins, sheltered fairways and approaches to berths. 15% under-keel clearance for any exposed waterways. To ensure safe navigation, the required UKC must be maintained throughout the entire Berthing/Unberthing operation or transit at all tidal conditions. Ample margin must be allowed for the following when calculating the effective UKC:
  - (i) Listing due to inadequate GM (Vessel Tender),
  - (ii) Delay of berthing/unberthing due to delayed schedule, traffic congestion, weather etc. particularly on a falling tide.

#### Warning:

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

- (5) Good liaison should be established with all concerned agents, berth operators and pilot etc. for vessels required to 'wedge-in' and 'wedge-out' to ensure ample and safe **fore-and-aft** clearances are achieved.
- (6) For vessel moving to and/or from a buoy, the working pilot may take a passage at the time he considers to the best and safest route for such vessel.
- (7) In any special circumstance of the case arises. e.g. adverse weather, No.3 or above typhoon signal is hoisted up, boisterous sea and swell, different pilot embarking and disembarking areas, hampered vessels or vessels with special construction or characteristics, etc. Special requirements for tugs, working condition, servicing time, etc. need to be further consulted.

## Chapter: 4 BERTHING REMARKS

### 1. Kwai Chung Terminal

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*	<u>Remarks</u>
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 shold 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. 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.

Maximum draft with respect to the available tide for Kwai Chung berths:

Height of tide	KC1-8	KC9-14
(m)	Max draft (m)	Max draft (m)
0.0	11.09	12.54
0.1	11.18	12.63
0.2	11.27	12.72
0.3	11.36	12.81
0.4	11.45	12.91
0.5	11.55	13.00
0.6	11.64	13.09
0.7	11.73	13.18
0.8	11.82	13.27
0.9	11.91	13.36
1.0	12.00	13.45
1.1	12.09	13.54
1.2	12.18	13.63
1.22	12.20	13.65
1.3	12.27	13.73
1.38	12.35	13.80
1.40	12.46	14.00
2.00	12.91	14.55

PAC endorsed on 7 July 1999

**Berthing Guidelines** 

Location: KC1-8 Kwai Chung berth 1-8

 010
 Berthing
 LOA: Max 130m
 011
 Unberthing
 LOA: Max 130m

 Draft:
 Max. 12.2m (min 10% UKC)
 Draft:
 Max. 12.2m (min 10% UKC)

**Time:** 24 hrs. **Time:** 24 hrs.

**Tugs:** 1. If D>8m 2 **Tugs:** 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 (min 10% UKC) **Draft:** Max. 12.2m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Tugs:

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

 030
 Berthing
 LOA: Max 270m
 031
 Unberthing
 LOA: Max 270m

 Draft:
 Max. 12.2m (min 10% UKC)
 Draft:
 Max. 12.2m (min 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:

 040
 Berthing
 LOA: Max 350m
 041
 Unberthing
 LOA: Max 350m

 Draft:
 Max. 12.2m (min 10% UKC)
 Draft:
 Max. 12.2m (min 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:

Berthing Guidelines Pending

Location: KC1-8 Kwai Chung berth 1-8

weather.

010 **Berthing** LOA: Max 130m 011 **Unberthing** 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 D>8m 2 **Tugs:** 1. If no anchor down 2.

Remarks: Ro-Ro vessel 2 tugs if adverse Remarks: Ro-Ro vessel 2 tugs if 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.

 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. **Tugs:** 2. 1 if bow & stern thrusters fitted.

1 if bow & stern thrusters fitted.

Remarks: Remarks:

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:

#### 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:

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

#### Warning:

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

Berthing Guidelines PAC endorsed on 7 July 1999

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 (min 10% UKC) **Draft:** Max. 12.2m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

020 **Berthing** LOA: Max 290m 021 **Unberthing** LOA: Max 290m **Draft:** Max. 12.2m (min 10% UKC) **Draft:** Max. 12.2m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:3Tugs:2Remarks:No stern in.Remarks:

Full length of opposite berth must

be clear.

Berthing Guidelines Pending

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 **Draft:** Max.12.2m + tide? 10% UKC **Draft:** Max.12.2m + tide? 10% UKC

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 2

020 **Berthing** LOA: Max 290m 021 **Unberthing** LOA: Max 290m **Draft:** Max.12.2m + tide? 10% UKC **Draft:** Max.12.2m + tide? 10% UKC

 Draft:
 Max.12.2m + tide ? 10% UKC
 Draft:
 Max.12.2

 Time:
 24 hrs.
 Time:
 24 hrs.

 Tugs:
 3
 Tugs:
 2

 Remarks:
 No stern in.
 Remarks:

Full length 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 condition. 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:

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

## Warning:

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

Berthing Guidelines PAC endorsed on 7 July 1999

Location: KC9-14 Kwai Chung berth 9-14

010 **Berthing** LOA: Max 130m **Unberthing** LOA: Max 130m 011 **Draft:** Max. 13.8m (min 10% UKC) **Draft:** Max. 13.8m (min 10% UKC)

Time: 24 hrs. 24 hrs. Time:

1. If D>8m 2 1. If no anchor down 2 Tugs: Tugs:

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: Draft:** 

Max. 13.8m (min 10% UKC) Max. 13.8m (min 10% UKC) Time: Time: 24 hrs. 24 hrs.

**Tugs:** 2 **Tugs:** 2 **Remarks:** Remarks:

030 LOA: Max 270m 031 LOA: Max 270m **Berthing** Unberthing **Draft:** Max. 13.8m (min 10% UKC) **Draft:** Max. 13.8m (min 10% UKC)

Time:

Tugs:

Tugs:

24 hrs.

fitted.

24 hrs.

2. 1 if bow & stern thrusters

2. 1 if bow & stern thrusters fitted.

Time: 24 hrs.

**Tugs:** 2 incl. 1 GI est. if no bow

thruster.

1 if bow & stern thrusters fitted.

Remarks: **Remarks:** 

040 **Berthing** LOA: Max 350m 041 Unberthing LOA: Max 350m **Draft:** Max. 13.8m (min 10% UKC) **Draft:** Max. 13.8m (min 10% UKC) Time:

Time: 24 hrs.

Tugs: 3 incl. 1 GI est. if no bow thruster.

1 if bow & stern thrusters fitted.

**Remarks:** L>230m stern in 3 tugs. **Remarks:** 

- 13 -

Berthing Guidelines Pending

Location: KC9-14 Kwai Chung berth 9-14

010 **Berthing** LOA: Max 130m 011 **Unberthing** LOA: Max 130m **Draft:** Max.13.8m + tide? 10% UKC **Draft:** Max.13.8m + tide? 10% UKC 

■

**Time:** 24 hrs. **Time:** 24 hrs.

**Tugs:** 1. If D>8m 2 **Tugs:** 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.13.8m + tide? 10% UKC **Draft:** Max.13.8m + tide? 10% UKC

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

030 **Berthing** LOA: Max 270m 031 **Unberthing** LOA: Max 270m

**Time:** 24 hrs. **Time:** 24 hrs.

Tugs: 2 incl. 1 GI est. if no bow Tugs: 2. 1 if bow & stern thrusters

thruster. fitted.

Remarks: Remarks:

1 if bow & stern thrusters fitted.

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.

**Remarks:** L>230m stern in 3 tugs. **Remarks:** 

#### General Remarks:

To ensure safe navigation, 10% UKC must be maintained throughout the entire Berthing/Unberthing operation at all tidal condition. 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:

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

#### Warning:

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

Chapter:11 GOVERNMENT MOORING BUOYS

BUOY	LOA	Draft (m.)	BUOY	LOA (m.)	Draft (m.)	
'A' Buoys:						
A06	183	6.4	A39*	183	7.4	
A08	183	7.8	<del>A41*</del>	183	10.2	<b>←</b>
A09	183	7.4	A43*	183	9.0	
A10	183	8.8	<del>A45*</del>	183	10.9	<b>←</b>
A11	183	8.5	A46*	183	10.8	
A12	183	8.8	A60	183	7.8	
A13	183	7.2	A62	198	10.2	
A14	183	8.4	A70	170	9.7	
A15	180	7.9	A71	183	8.8	
A17*	183	8.5	A72	183	8.8	
A18	183	7.0	A73	183	9.5	
A19	183	6.7	A74	183	9.0	
A29*	160	9.0	A76	170	9.1	
A35*	160	9.5	A77	183	9.1	
A36	160	8.1	A78	183	9.5	
A38	183	6.4				
'B' Buoys:						
B01	120	4.8	B19	137	6.1	
B02*	137	6.4	B20	137	7.2	
B03*	137	6.7	B21	137	6.8	
B04*	137	9.1	B22	137	5.9	
B05	137	7.5	B23	137	6.0	
B06	137	9.0	B24	137	5.0	
B11	137	7.0	B25	110	5.7	
B12	137	7.3	B26	137	9.3	
B13	137	6.6	<del>B27</del>	137	5.3	•
B14	137	6.8	B28	137	6.2	
B15	137	7.0	B29	137	8.1	
B16	137	5.9	B30	137	8.5	
B17	137	6.6	B31	137	9.3	
B18	137	4.8		- ·		
Damaulzai			* = Classifie	ed as Non t	yphoon mo	ooring buoy

Remarks:

	'A' buoy	'B' buoy
Normal weather max. length	183m	138m
Typhoon class max. length	183m	113m
Swinging radius	214m	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: BUOY Government mooring buoy

010 **Berthing** LOA: Max 183m 011 **Unberthing** LOA: Max 183m **Draft:** Subject to individual buoy's draft **Draft:** Subject to individual buoy's draft

(min 10% UKC)

(min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:See remarksTugs:See remarks

Remarks: Remarks:

1. Draft refer to depth of the buoy.

- 2. Additional tugs may be required if adverse weather or high waves prevail.
- 3. Mooring and/or unmooring operations may be suspended if the pilots consider such operations to be dangerous.
- 4. If mooring and/or unmooring operations are suspended, every effort will be made to unmoor departing vessels before services are suspended.
- 5. Additional requirements:

For all buoys if:

D>9.15m 1 tug at the buoy.

D>9.7m HW slack only.

D>10m 1 tug escort at the GI.

L>183m 1 tug at the buoy.

For buoys North of GI (on trial):

A41, A45, A46 – Mooring: At daylight – unrestricted

At night – slack water only

Unmooring: 24 hours

Berthing Guidelines PAC endorsed on 7 July 1999

Location: CRC-A China Resources T/Y main berth (A)

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

 Tugs:
 2 (grade II)

**Remarks:** Port side to. **Remarks:** 

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:2Tugs:2Remarks:Port side to.Remarks:

030 **Berthing** LOA: Max 180m 031 **Unberthing** LOA: Max 180m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2. If D>10m 1 GI est.

 Remarks:
 Port side to.

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m

**Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

Time:D&N HW.If D<10m 24hrs.</th>Time:24 hrs.Tugs:3 incl. 1 GI est.Tugs:2Remarks:Day 1 pilot, night 2 pilots.Remarks:

Port side to.

050 **Berthing** LOA: Max 250m 051 **Unberthing** LOA: Max 250m

**Draft:** Max. 14m (min 10% UKC) **Draft:** Max. 14m (min 10% UKC)

Time:D&N HW.Time:24 hrs.Tugs:4 incl. 1 GI est.Tugs:3Remarks:2 pilots.Remarks:

Port side to.

Berthing Guidelines Pending

Location : CRC-A China Resources T/Y main berth (A)

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

 Tugs:
 2 (grade II)

Remarks: Port side to. Remarks:

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:2Tugs:2Remarks:Port side to.Remarks:

030 **Berthing** LOA: Max 184m 031 **Unberthing** LOA: Max 184m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2. If Draft>10m 1 GI est.

 Tugs:
 2

Remarks: Port side to. Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m **Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

 Draft:
 Max. 13m (min 10% UKC)
 Draft:
 Max. 13m (min 10% UKC)

 Time:
 Draft=10m 24hrs.
 Time:
 24 hrs.

Draft>10m, D&N HW-1 to HW+1

D&N LW to LW+1

Tugs: 3 incl. 1 GI est. Tugs: 2

If Draft? 11m 2 incl. 1 GI est.

Remarks: Day 1 pilot, Night 2 pilots. Remarks:

Berthing at LW to LW+1 : 2 pilots.

Port side to.

D&N LW to LW+1

050 **Berthing** LOA: Max 250m 051 **Unberthing** LOA: Max 250m

**Draft:** Max. 14m (min 10% UKC) **Draft:** Max. 14m (min 10% UKC)

**Time:** D&N HW-1 to HW+1 **Time:** 24 hrs.

Tugs: 3 incl. 1 GI est. Tugs: 2

**Remarks:** 2 pilots. Port side to. **Remarks:** 

Berthing Guidelines PAC endorsed on 7 July 1999

Caltex T/Y main berth Location: CTX

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

Time: D&N HW-1 to HW+2 & Time: 24 hrs.

D&N LW to LW+3

Tugs: 2 (grade II) Tugs: 2 (grade II)

Remarks: Starboard side to. **Remarks:** 

020 LOA: Max 150m 021 LOA: Max 150m **Berthing** Unberthing

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

Time: D&N HW-1 to HW+1 & Time: 24 hrs.

D&N LW to LW+2

Tugs: Tugs: 2 Remarks: Starboard side to. Remarks:

030 LOA: Max 180m 031 Unberthing LOA: Max 180m **Berthing** 

Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC) **Draft:** 

Time: D&N HW Time: 24 hrs. Tugs: 2. If D>10m 1 GI est. Tugs: 2

Remarks: Starboard side to. Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m **Draft:** Max. 12.6m (min 10% UKC) **Draft:** Max. 12.6m (min 10% UKC)

Time: D&N HW Time: 24 hrs. Tugs: 3 incl. 1 GI est. Tugs: 2

**Remarks:** Day 1 pilot, night 2 pilots. **Remarks:** Starboard side to.

050 **Berthing** LOA: Max 235m 051 Unberthing LOA: Max 235m **Draft:** Max. 12.6m (min 10% UKC) **Draft:** Max. 12.6m (min 10% UKC) Time: D&N HW Time: D&N HW-1 to HW+2 &

D&N LW-2 to LW+1

4 incl. 1 GI est. **Tugs:** 3

Tugs: Remarks: 2 pilots. Remarks:

Starboard side to.

Berthing Guidelines Pending

Location : CTX Caltex T/Y main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs.

D&N LW to LW+3

Tugs: 2 (grade II) Tugs: 2 (grade II)

Remarks: Starboard side to. Remarks:

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs. D&N LW+1 to LW+2

Tugs: 2 Tugs: 2

Remarks: Starboard side to. Remarks:

030 **Berthing** LOA: Max 184m 031 **Unberthing** LOA: Max 184m ◀

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

Time: D&N HW to HW+1 & Time: 24 hrs.

D&N LW+2 **Tugs:** 2. If Draft>10m 1 GI est. **Tugs:** 2

Remarks: Starboard side to. Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m **Draft:** Max. 12.6m (min 10% UKC) **Draft:** Max. 12.6m (min 10% UKC)

Time: D&N HW to HW+1 & Time: 24 hrs.

D&N LW+2
3 incl. 1 GI est. Tugs: 2

If Draft? 11m 2 incl. 1 GI est.

**Remarks:** Day 1 pilot, Night 2 pilots. **Remarks:** 

Berthing at LW+2 : 2 pilots.

Starboard side to.

**Tugs:** 

 050
 Berthing
 LOA: Max 235m
 051
 Unberthing
 LOA: Max 235m

 Draft:
 Max. 12.6m (min 10% UKC)
 Draft:
 Max. 12.6m (min 10% UKC)

Time: D&N HW to HW+1 & Time: D&N HW-1 to HW+2 &

D&N LW+2 D&N LW to LW+2

Tugs: 3 incl. 1 GI est. Tugs: 2

Remarks: 2 pilots. Remarks: Starboard side to.

PAC endorsed on 7 July 1999

Berthing Guidelines

Location: CTX-LPG Caltex T/Y LPG berth

010 **Berthing** LOA: Max 80m 011 **Unberthing** LOA: Max 80m **Draft:** Max. 6.5m (min 10% UKC) **Draft:** Max. 6.5m (min 10% UKC)

Time: D&N LW to LW+3 Time: D&N LW to HW **Tugs: Tugs:** 1 (grade II) 1 (grade II)

**Remarks:** Starboard side to. **Remarks:** 

Bow not to pass 6.5m sign

board.

020 **Berthing** LOA: Max 114m 021 Unberthing LOA: Max 114m

**Draft:** Max. 6.5m (min 10% UKC) **Draft:** Max. 6.5m (min 10% UKC)

Day LW to LW+2 Time: Time: Day LW to HW

**Tugs:** 2 (grade II) Tugs: 2 (grade II) Remarks: Starboard side to.

**Remarks:** Not to be replaced by 1 (grade I) tug.

Bow not to pass 6.5m sign

Not to be replaced by 1 (grade I)

tug.

Berthing Guidelines Pending

Location: CTX-LPG Caltex T/Y LPG berth

010 **Berthing** LOA: Max 80m 011 **Unberthing** LOA: Max 80m **Draft:** Max. 6.5m (min 10% UKC) **Draft:** Max. 6.5m (min 10% UKC)

24 hrs. Time: D&N LW to LW+3 Time:

Tugs: 1 (grade II) Tugs: HW to LW: 2 (grade II) tug.

LW to HW: 1 (grade II) tug.

Remarks: Starboard side to.

Bow not to pass 6.5m sign

board.

020 **Berthing** LOA: Max 114m 021 **Unberthing** LOA: Max 114m **Draft:** Max. 6.5m (min 10% UKC)

Time: Day LW to LW+2

Tugs: 2 (grade II)

**Remarks:** Starboard side to.

Bow not to pass 6.5m sign

board.

Not to be replaced by 1 (grade I)

<del>tug.</del>

**Draft:** Max. 6.5m (min 10% UKC)

Time: 24 hrs.

Tugs: HW to LW: 2 (grade I) tug.

LW to HW: 2 (grade II) tug.

**Remarks:** 

**Remarks:** 

PAC endorsed on 7 July 1999

Berthing Guidelines

Location: ESSO Esso oil terminal main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

 Tugs:
 2 (grade II)

**Remarks:** Port side to. **Remarks:** 

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:2Tugs:2Remarks:Port side to.Remarks:

030 **Berthing** LOA: Max 180m 031 **Unberthing** LOA: Max 180m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

**Time:** 24 hrs. **Time:** 24 hrs.

**Tugs:** 2. If D>10m 1 GI est. **Tugs:** 2 **Remarks:** Port side to. **Remarks:** 

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m

**Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

Time:D&N HW.D<10m 24 hrs.</th>Time:24 hrs.Tugs:3 incl. 1 GI est.Tugs:2Remarks:Day 1 pilot, night 2 pilots.Remarks:

Port side to.

050 **Berthing** LOA: Max 250m 051 **Unberthing** LOA: Max 250m

**Draft:** Max. 14m (min 10% UKC) **Draft:** Max. 14m (min 10% UKC)

Time:D&N HWTime:24 hrs.Tugs:4 incl. 1 GI est.Tugs:3Remarks:2 pilots. Port side to.Remarks:

060 **Berthing** LOA: Max 274m 061 **Unberthing** LOA: Max 274m

**Draft:** Max. 14.63m (min 10% UKC) **Draft:** Max. 14.63m (min 10% UKC)

**Time:** D&N HW. Jun.-Sept. HW-0.5 **Time:** 24 hrs. **Tugs:** 4 incl. 1 GI est. **Tugs:** 3

**Tugs:** 4 incl. 1 GI est. **Tugs:** 3 **Remarks:** 2 pilots. Port side to **Remarks:** 

LOA: Max 250m

Berthing Guidelines Pending

Location: ESSO Esso oil terminal main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

**Remarks:** Port side to. Remarks:

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:2Tugs:2Remarks:Port side to.Remarks:

030 **Berthing** LOA: Max 184m 031 **Unberthing** LOA: Max 184m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

**Time:** 24 hrs. **Time:** 24 hrs.

Tugs: 2. If Draft>10m 1 GI est. Tugs: 2

**Remarks:** Port side to. Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m

**Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

Time: Draft? 10m 24hrs. Time: 24 hrs.

D&N LW to LW+1

ugs: 3 incl. 1 GI est. Tugs: 2

Tugs: 3 incl. 1 GI est. Tugs: 2

If Draft ? 11m 2 incl. 1 GI est.

**Remarks:** Day 1 pilot, Night 2 pilots. **Remarks:** 

Berthing at LW to LW+1: 2 pilots.

050

Draft>10m, D&N HW-1 to HW+1

Port side to.

Berthing LOA: Max 250m 051 Unberthing

**Draft:** Max. 14m (min 10% UKC) **Draft:** Max. 14m (min 10% UKC)

**Time:** D&N HW-1 to HW+1 **Time:** 24 hrs.

D&N LW to LW+1

Tugs: 3 incl. 1 GI est. Tugs: 2
Remarks: 2 pilots. Port side to. Remarks:

060 **Berthing** LOA: Max 274m 061 **Unberthing** LOA: Max 274m

 Draft:
 Max. 14.63m (min 10% UKC)
 Draft:
 Max. 14.63m (min 10% UKC)

 Time:
 D&N HW to HW+1
 Time:
 24 hrs.

(Jun.-Sept. HW-0.5)

Tugs: 4 incl. 1 GI est. Tugs: 3
Remarks: 2 pilots. Port side to Remarks:

Berthing Guidelines PAC endorsed on 7 July 1999

Location: MOBIL Mobil oil terminal main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2 (grade II)

 Tugs:
 2 (grade II)

Remarks: Remarks:

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs.

D&N LW-2 to LW+1

Tugs: 2
Remarks: Port side to.
Tugs: 2
Remarks:

030 **Berthing** LOA: Max 180m 031 **Unberthing** LOA: Max 180m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

 Time:
 D&N HW
 Time:
 24 hrs.

 Tugs:
 2. If D>10m incl 1 GI est.
 Tugs:
 2

**Remarks:** Port side to. **Remarks:** 

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m

**Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

Time: D&N HW
Time: 24 hrs.
Tugs: 3 incl. 1 GI est.
Tugs: 2

Remarks: Day 1 pilot, night 2 pilots. Remarks:

Port side to.

050 **Berthing** LOA: Max 250m 051 **Unberthing** LOA: Max 250m

 Draft:
 Max. 14.6m (min 10% UKC)
 Draft:
 Max. 14.6m (min 10% UKC)

 Time:
 D&N HW
 Time:
 24 hrs.

Tugs: 4 incl. 1 GI est.

Remarks: 2 pilots.

Tugs: 3

Remarks: 1 Remarks: 3

Port side to.

Berthing Guidelines Pending

Location: MOBIL Mobil oil terminal main berth

010 LOA: Max 120m 011 **Unberthing** LOA: Max 120m **Berthing** 

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

Time: 24 hrs. Time: 24 hrs. **Tugs: Tugs:** 2 (grade II) 2 (grade II)

**Remarks:** Remarks:

020 LOA: Max 150m **Berthing** LOA: Max 150m 021 Unberthing **Draft: Draft:** 

Max. 10m (min 10% UKC) Max. 10m (min 10% UKC)

Time: D&N HW-1 to HW+2 & Time: 24 hrs.

D&N LW-2 to LW+1

**Tugs: Tugs:** 2 2 Remarks: Port side to. Remarks:

030 **Berthing** LOA: Max 184m 031 **Unberthing** LOA: Max 184m ←

Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC) **Draft:** 

Time: D&N HW to HW+1 Time: 24 hrs. D&N LW to LW+1

2 Tugs: 2. If D>10m 1 GI est. Tugs:

Remarks: Port side to. Remarks:

040 LOA: Max 220m 041 LOA: Max 220m **Berthing Unberthing** 

**Draft:** Max. 13m (min 10% UKC) **Draft:** Max. 13m (min 10% UKC)

Time: D&N HW to HW+1 Time: 24 hrs. D&N LW to LW+1

Tugs: 3 incl. 1 GI est. **Tugs:** 2

If Draft? 11m 2 incl. 1 GI est.

Remarks: Day 1 pilot, Night 2 pilots. Remarks:

Berthing at LW to LW+1: 2 pilots.

Port side to.

050 **Berthing** LOA: Max 250m 051 Unberthing LOA: Max 250m

> Max. 14.6m (min 10% UKC) Max. 14.6m (min 10% UKC) **Draft: Draft:**

Time: D&N HW to HW+1 Time: 24 hrs. D&N LW to LW+1

3 incl. 1 GI est. Tugs: **Tugs:** 2

Remarks: 2 pilots. **Remarks:** 

Port side to.

PAC endorsed on 7 July 1999

Berthing Guidelines

Location: SHELL Shell oil terminal main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs.

D&N LW to LW+2

Tugs: 2 (grade II) Tugs: 2 (grade II)

**Remarks:** Starboard side to. **Remarks:** 

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

**Time:** D&N HW-1 to HW+1 & **Time:** 24 hrs.

D&N LW to LW+2

Tugs: 2
Remarks: Starboard side to.

Tugs: 2
Remarks: Starboard side to.

030 **Berthing** LOA: Max 180m 031 **Unberthing** LOA: Max 180m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

Time: D&N HW Time: 24 hrs.

Tugs:2. If D>10m 1 GI est.Tugs:2Remarks:Starboard side to.Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m **Draft:** Max. 14.5m (min 10% UKC) **Draft:** Max. 14.5m (min 10% UKC)

 Draft:
 Max. 14.5m (min 10% UKC)
 Draft:
 Max. 14.5m (min 10% UKC)

 Time:
 D&N HW
 Time:
 24 hrs.

Tugs: 3 incl. 1 GI est. Tugs: 2
Remarks: Day 1 pilot, night 2 pilots. Remarks:

Starboard side to.

 050
 Berthing
 LOA: Max 245m
 051
 Unberthing
 LOA: Max 245m

 Draft:
 Max. 14.5m (min 10% UKC)
 Draft:
 Max. 14.5m (min 10% UKC)

Tugs:4 incl. 1 GI est.Tugs:3Remarks:2 pilots.Remarks:

Starboard side to.

Berthing Guidelines Pending

Location: SHELL Shell oil terminal main berth

010 **Berthing** LOA: Max 120m 011 **Unberthing** LOA: Max 120m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs.

D&N LW to LW+2

Tugs: 2 (grade II) Tugs: 2 (grade II)

**Remarks:** Starboard side to. **Remarks:** 

020 **Berthing** LOA: Max 150m 021 **Unberthing** LOA: Max 150m

**Draft:** Max. 10m (min 10% UKC) **Draft:** Max. 10m (min 10% UKC)

**Time:** D&N HW-1 to HW+2 & **Time:** 24 hrs.

D&N LW+1 to LW+2

Tugs: 2
Remarks: Starboard side to.
Tugs: 2
Remarks:

030 **Berthing** LOA: Max 184m 031 **Unberthing** LOA: Max 184m

**Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC)

Time: D&N HW to HW+1 & Time: 24 hrs.

D&N LW+2

**Tugs:** 2. If Draft >10m 1 GI est. **Tugs:** 2

Remarks: Starboard side to. Remarks:

040 **Berthing** LOA: Max 220m 041 **Unberthing** LOA: Max 220m **Draft:** Max. 14.5m (min 10% UKC) **Draft:** Max. 14.5m (min 10% UKC)

Time: D&N HW to HW+1 & Time: 24 hrs.

D&N LW+2

Tugs: 3 incl. 1 GI est. Tugs: 2

If Draft? 11m 2 incl. 1 GI est.

**Remarks:** Day 1 pilot, Night 2 pilots. **Remarks:** 

Berthing at LW+2 : 2 pilots.

Starboard side to.

050 **Berthing** LOA: Max 245m 051 **Unberthing** LOA: Max 245m **Draft:** Max. 14.5m (min 10% UKC) **Draft:** Max. 14.5m (min 10% UKC)

Time: D&N HW to HW+1 & Time: D&N HW-1 to HW+2 &

Time: Dan Hw to Hw+1 & Time: Dan Hw-1 to Hw+2 &

D&N LW+2 D&N LW to LW+2

- 28 -

**Tugs:** 3 incl. 1 GI est. **Tugs:** 2

Remarks: 2 pilots. Remarks: Starboard side to.

PAC endorsed on 7 July 1999

Berthing Guidelines

Location: TPGAS **Tolo harbour Town Gas wharf** 

010 **Berthing** LOA: Max 122m 011 **Unberthing** LOA: Max 122m **Draft:** Draft: Max. 7.5m (min 10% UKC) Max. 7.5m (min 10% UKC) Time: Day light only (0800-1700) Time: Day light only (0800-1700) 2 (grade II) **Tugs:** 2 (grade II) Tugs:

TSK or vice versa must change

Remarks: Vessel from Tolo harbour to Remarks: Vessel from Tolo harbour to TSK

or vice versa must change pilot at

pilot at Ngan Chau. Ngan Chau.

020 021 LOA: Max 198m **Berthing** LOA: Max 198m **Unberthing Draft:** Max. 11m (min 10% UKC) **Draft:** Max. 11m (min 10% UKC) Time: Day light only (0800-1700) Time: Day light only (0800-1700)

2. L>168m or D>9.15m 1 est. 2. L>168m or D>9.15m 1 est. to **Tugs:** Tugs:

from Chik Chau Chik Chau

Remarks: Vessel from Tolo harbour to TSK Remarks: Vessel from Tolo harbour to

> TSK or vice versa must change or vice versa must change pilot at

pilot at Ngan Chau. Ngan Chau. Berthing Guidelines Pending

Location: TPGAS **Tolo harbour Town Gas wharf** 

> Day light / POB: Berthing & Unberthing From (Sunrise) to (90 mins before Sunset)

010 **Berthing** 011 **Unberthing** LOA: Max 122m LOA: Max 122m **Draft:** Max. 7.5m (min 10% UKC) **Draft:** Max. 7.5m (min 10% UKC)

Day light only \* Time: Tugs: 2 (grade II)

Remarks: Vessel from Tolo harbour to

TSK or vice versa must change

pilot at Ngan Chau.

Day light only \* Time: Tugs: 2 (grade II)

Remarks: Vessel from Tolo harbour to TSK

or vice versa must change pilot at

Ngan Chau.

020 **Berthing** LOA: Max 198m

Max. 11m (min 10% UKC) **Draft:** 

Time: Day light only \*

2. L>168m or Draft>9.15m 1 Tugs:

est, from Chik Chau

Remarks: Vessel from Tolo harbour to

TSK or vice versa must change

pilot at Ngan Chau.

021 **Unberthing** LOA: Max 198m

Max. 11m (min 10% UKC) **Draft:** 

Time: Day light only \*

2. L>168m or Draft>9.15m 1 est. **Tugs:** 

to Chik Chau

Remarks: Vessel from Tolo harbour to TSK

or vice versa must change pilot at

Ngan Chau.

**→** 030 **Berthing** LOA: Max 228m

**Draft:** Max. 11m (min 10% UKC)

Time: Day light only \*

3. 2 est. from Chik Chau Tugs:

Remarks: 2 pilots.

Vessel from Tolo harbour to TSK or vice versa must change

pilot at Ngan Chau.

031 **Unberthing** LOA: Max 228m

Draft: Max. 11m (min 10% UKC)

Time: Day light only \*

3. 2 est. to Chik Chau Tugs:

Remarks: 2 pilots.

Vessel from Tolo harbour to TSK or vice versa must change pilot at

Ngan Chau.

Location: OTN Ocean Terminal north outer-foul

-----

(Proposed – change of location name & code only // guidelines remain unchanged)

Location: OTNO Ocean Terminal north berth outer-foul

010 **Berthing** LOA: Max 175m 011 **Unberthing** LOA: Max 175m

**Draft:** Max. 7.2m (min 10% UKC) **Draft:** Max. 7.2m (min 10% UKC)

**Time:** D&N LW-1 to HW+1 **Time:** D&N LW-1 to HW+1

Tugs: 2
Remarks: Starboard side to.
Tugs: 2
Remarks:

Location: OTNO Ocean Terminal north berth

-----

(Proposed – change of location code // guidelines 040 & 041delete '2 pilots' remark)

Location: OTN Ocean Terminal north berth

 010
 Berthing
 LOA: Max 80m
 011
 Unberthing
 LOA: Max 80m

 Draft:
 Max. 7.5m (min 10% UKC)
 Draft:
 Max. 7.5m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 1

 Remarks:
 Remarks:

020 **Berthing** LOA: Max 130m 021 **Unberthing** LOA: Max 130m **Droft:** Max 8.5m (min 10% LIVC)

**Draft:** Max. 8.5m (min 10% UKC) **Draft:** Max. 8.5m (min 10% UKC)

Time:24 hrs.Tugs:2Remarks:Time:24 hrs.Tugs:2Remarks:Remarks:

030 **Berthing** LOA: Max 230m 031 **Unberthing** LOA: Max 230m

**Draft:** Max. 8.5m (min 10% UKC) **Draft:** Max. 8.5m (min 10% UKC)

Time:24 hrs.Time:24 hrs.Tugs:2Tugs:2Remarks:Starboard side to.Remarks:

040 **Berthing** LOA: Max 270m 041 **Unberthing** LOA: Max 270m

**Draft:** Max. 8.5m (min 10% UKC) **Draft:** Max. 8.5m (min 10% UKC)

Time: D&N LW-1 to HW-1

Tugs: 3 incl. 1 GI est.

Remarks: 2 pilots

Time: 24 hrs.

Tugs: 2 incl. 1 est.

Remarks: 2 pilots

Starboard side to.

Location: OTS Ocean Terminal south outer-foul

-----

(Proposed – change of location name & code only // guidelines remain unchanged)

Location: OTSO Ocean Terminal south berth outer-foul

010 **Berthing** LOA: Max 175m 011 **Unberthing** LOA: Max 175m

**Draft:** Max. 8.5m (min 10% UKC) **Draft:** Max. 8.5m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

- 33 -

Location: OTSO Ocean Terminal south berth

-----

(Proposed – change of location code only // guidelines remain unchanged)

Location: OTS Ocean Terminal south berth

 010
 Berthing
 LOA: Max 80m
 011
 Unberthing
 LOA: Max 80m

 Draft:
 Max. 7.5m (min 10% UKC)
 Draft:
 Max. 7.5m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 1

 Remarks:
 Remarks:

020 **Berthing** LOA: Max 130m 021 **Unberthing** LOA: Max 130m

**Draft:** Max. 8m (min 10% UKC) **Draft:** Max. 8m (min 10% UKC)

 Time:
 24 hrs.

 Tugs:
 2

 Remarks:
 Remarks:

030 **Berthing** LOA: Max 230m 031 **Unberthing** LOA: Max 230m **Draft:** Max. 10.67m (min 10% UKC) **Draft:** Max. 10.67m (min 10% UKC)

**Time:** 24 hrs. **Time:** 24 hrs.

**Tugs:** 2. If D>10m incl. 1 GI est. **Tugs:** 2. If D>10m incl. 1 est.

Remarks: Remarks:

040 **Berthing** LOA: Max 270m 041 **Unberthing** LOA: Max 270m **Draft:** Max. 10.67m (min 10% UKC) **Draft:** Max. 10.67m (min 10% UKC)

 Time:
 D&N HW-2 to LW+2
 Time:
 24 hrs.

 Tugs:
 3 incl. 1 GI est.
 Tugs:
 2 incl. 1 est.

**Remarks:** Port side to. Remarks: Max Fwd = 9.45m Aft = 10.67m.

Max Fwd = 9.45m Aft = 10.67m.

 050
 Berthing
 LOA: Max 290m
 051
 Unberthing
 LOA: Max 290m

 Draft:
 Max. 10.67m (min 10% UKC)
 Draft:
 Max. 10.67m (min 10% UKC)

 Time:
 D&N HW 2 to LW+1
 Time:
 D&N HW 2 to LW+2

 Time:
 D&N HW-2 to LW+1
 Time:
 D&N HW-2 to LW+2

 Tugs:
 3 incl. 1 GI est.
 Tugs:
 2 incl. 1 est.

Tugs: 3 incl. 1 GI est.

Remarks: 2 pilots. Port side to.

Tugs: 2 incl. 1 est.

Remarks: 2 pilots.

Max Fwd = 9.45m Aft = 10.67m. Max Fwd = 9.45m Aft = 10.67m.