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 Ma Wan Transit 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 February 2003

Annex 1

Briefing Notes on Proposed Amendments to Berthing Guidelines

	Description		Amendments	Implications
1.	Location: URMPS/URMA		To revise the existing criteria for determining the transit window for Ma Wan passage, by making direct reference to the predicted speed of tidal currents instead of the tidal heights. To increase maximum allowable LOA and draft.	Transit tidal window extended range from 4-8 hours. Maximum allowable LOA increased from 275m to 280m Maximum allowable draft increased from 16.5m to 16.8m.
2.	Location: URMPS-C/URMA-C	Container ship	To revise the existing criteria for determining the transit window for Ma Wan passage, by making direct reference to the predicted speed of tidal currents instead of the tidal heights. To increase maximum allowable LOA and draft.	Transit tidal window extended range from 10-15 hours. Maximum allowable LOA increased from 300m to 310m Maximum allowable draft increased from 13.5m to 14.5m.

3.	Location: CCEMENT	China Cement Company (TSK)	Add transit Ma Wan Restriction.	(i)	LOA < 153-168m Draft 9.5-10.0m
	CCEIVIENT	Company (15K)	New Classifications		Escort tug: eliminated.
			according to	(ii)	LOA 168-183m
			vessels LOA and draft. To extend		Unberthing window: extended to full daylight.
			tidal window and		Berthing tug: reduced by 1
			relax tug		Draft <10m
			requirements.		Berthing window: extended to full daylight.
					Escort tug: eliminated.
					Draft 10-12m
					Berthing window: reduced by 3.5 hours.
					Remark: starboard side to.
				, <u>,</u>	1.0.4.102 100
				(iii)	LOA 183m –198m Unberthing window: extended to
					full
					daylight. Draft <12.5m
					Berthing window: reduced by 4 hours.
					Draft 12.5m-14m
					Tug: reduced by 1.
				(iv)	
					Tug: reduced by 1. Unberthing window: extended to
					full daylight.
				(v)	LOA 230m-240m
					Unberthing window: extended by 2
					hours. Draft <12m
					Tug: reduced by 1.
					Draft 12-14m
					Unberthing tug: reduced by1. Draft 13-14m
					Escort tug: reduced by 1.
4.	Location: CLPTSK	China Light	New	(i)	LOA 153-168m
		Power (TSK)	Classifications according to		Draft 9.5-10m Berthing/Unberthing window:
			vessels LOA and		Extended to full
			draft. To extend		daylight.
			tidal window and		Berthing tug: reduced by 1.
			relax tug requirements.		Escort tug: eliminated.
			1	(ii)	LOA 168-183m
					Draft <10m

					Parthing/Unharthing window
					Berthing/Unberthing window: Extended to full
					daylight.
					Berthing Tug: reduced by 1.
					Escort tug: eliminated.
				(iii)	LOA 183-198m
				(111)	Unberthing window: extended to
					full daylight.
					Draft <12.5m
					Berthing window: shortened by 4 hours.
					Draft >13m
					Escort tug: reduced by 1.
					Draft 12.5-14m
					Tug: reduced by 1.
				(iv)	LOA 198-230m
					Tug: reduced by 1.
					Unberthing window: extended to full daylight.
					Draft > 13m
					Escort tug: reduced by 1.
				(v)	LOA 230-255m
					Unberthing window: extended by 2
					hours. Unberthing tug: reduced by 1.
					Draft >13m
					Escort tug: reduced by 1.
				(vi)	LOA 255-275m
					Unberthing tug: reduced by 1. Draft 13-14m
					Escort tug: reduced by 1.
5.	Location: SWSTL	Shiu Wing steel	New	(i)	LOA < 168m
		wharf	Classifications		Draft 9.5m-10.0m
			according to		Escort tug: eliminated
			vessels LOA and		Berthing Tug: reduced by 1.
			draft. To extend		Berthing/Unberthing window:
			tidal window and		extended to
			relax tug		full daylight.
			requirements.	(ii)	LOA 168-183m
					Berthing tug: reduced by 1.
					Unberthing window: extended to full
					daylight. Draft <9.5-10m
					Escort tug: eliminated
					Berthing window: extended to full
					daylight.
					Draft >10-11.5m
					Berthing window: shortened by
					2.5 hours
L		ı	1		

				(iii) LOA 183m-200m
				Berthing window: shortened by 3 hours
				Unberthing window: extended by full daylight.
				Draft <9.5m
				Escort tug: increased by 1.
6.	Location: TSKA	TSK anchorage to/from wharf	To be Deleted.	Incorporated into Transit Ma Wan Berthing Guidelines. In Item 1 & 2.
7.	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.
8.	Location: CTX	Caltex T/Y main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	(i) LOA 180-184m Draft < 12m Berthing window: extended by 2 hours 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.
9.	Location: CTX-LPG	Caltex T/Y LPG berth	Amendments on berthing & unberthing and tug requirement.	Unberthing window: extended to 24 hours. (i) LOA ≤ 80m Unberthing tug: increased by 1 when unberthing on falling tide. (ii) LOA ≤ 114m Unberthing tug: changed to 2 Grade I tugs when unberthing on falling tide.

10.	Location: ESSO	Esso Oil Terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug	(i) LOA 180-184m Draft 10-12m Berthing window: extended to 24 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated.
			requirements.	(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
11.	Location: MOBIL	Mobil Oil Terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	Berthing Time: extended by 5 hours. (i) LOA 180-184m Draft <12m Berthing window: extended by 3 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug: eliminated. (ii) LOA 184-220m Draft 10-13m Berthing window: extended by 3 hours. Draft <11m Berthing Tug: reduced by 1. Remarks: 2 pilots for berthing at LW. (iii) LOA 230-250m Berthing window: extended by 3 hours Tug: reduced by 1.
12.	Location: SHELL	Shell oil terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	(i) LOA 120-150m Berthing window: change tidal window (ii) LOA 180-184m Draft <12m Berthing window: extended by 3 hours.

Berthing Tug: reduced by 1.
Draft < 10m
Escort Tug: eliminated.
(iii) 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.
(iv) LOA 230-245m
Berthing window: extended by 2
hours
Tug: reduced by 1.

Note: Please refer to the attached Items 1-12 for details of the proposed amendments

Berthing Guidelines	endorsed on 7 July 199
---------------------	------------------------

Location: TSK

Tugs:

010	N. bound	LOA: Max 153m	011	S. bound	LOA: Max 1,53m
Draft:	Max. 11m (min 10% UKC)	Draft:	Max. 11m (n	nin 10% UKC)

Max. 11m (min 10% UKC) Max. 11m (min 10% UKC) **Draft:** Time: 24 hrs. D>8.5m & night Time: 24 hrs. D>8.5m & night HW+1 to HW+3 @ Mawan. LW+1 to LW+3 @ Mawan.

Transit Mawan other than passenger & container ship (bulker)

D>10m 1 @ anchorage. D>10m 1 @ anchorage. **Tugs:** Tugs: Remarks: Thrusters not considered. **Remarks:** Thrusters not considered.

N. bound LOA: Max 183m 021 /LOA: Max 183m 020 S. bound Max. 11m (min 10% UKC) Max. 11m (min 10% UKC) **Draft:** Draft: 24 hrs. If D>9.5m day light only 24 hrs. If D>9.5m day light only Time: Time: If D>8.5m & night LW+1 to If D>8.5m & night HW+1 to LW+3 (a) Mawan. HW+3 @ Mawan.

D>8.5m & night 1 @ Mawan est. D>8.5m & night 1 @ Mawan est. Tugs:

D>9.5m 1 @ Mawan est. D>\(\text{9}\).5m 1 (\(\text{a}\) Mawan est. D>10m 1 @ anchorage. D>10m 1 @ anchorage.

Remarks: Thrusters not considered. **Remarks:**/Thrusters not considered.

031 030 N. bound LOA: Max 198m LOA: Max 198m S. bound Max. 12.5m (min 10% UKC) Draft: Max. 12.5m (min 10% UKC) **Draft:** Day HW+1 to HW+3 & Day LW+1 to LW+3 & Time: Time:

Day LW-1 to LW+1.5 @ Mawan Day HW-2 to HW @ Mawan

Tugs: 1 Mawan est. 1 Mawan est. **Tugs:** D>10m 1 @ anchorage. D>10m 1 @ anchorage.

Remarks: 2 pilots. Thrusters not considered. **Remarks:** 2 pilots. Thrusters not considered.

040 N. bound LOA: Max 255m 041 LOA: Max 255m S. bound Max. 14m (min 10% UKQ) **Draft:** Max. 14m (min 10% UKC) **Draft:** Time: Day HW+1 to HW+1.5/a Mawan Time: Day LW+1 to LW+3 @ Mawan 1 @ Mawan est. if L > 230m and 1 @ Mawan est. if L>230m and Tugs: **Tugs:**

D>10m 1 est. /from GI to D>10m 1 est. @ POB. anchorage. D>13m 2 est. to anchorage

Remarks: 2 pilots. Thrusters not considered. **Remarks:** 2 pilots. Thrusters not considered.

N. bound / LOA: Max 275m 050 051 S. bound LOA: Max 275m

Max. 16.5m (min 10% UKC) **Draft: Draft:** Max. 16.5m (min 10% UKC) Day HW+1 @ Mawan Day LW+1 to LW+3 @ Mawan Time: Time: Tugs:

2. $1 \stackrel{\frown}{a}$ GI + 1 $\stackrel{\frown}{a}$ Mawan est. to Tugs: 2. 1 @ POB + 1 @ Mawan est. D<9m 1 POB est. to anchorage. anchorage. URMA. D>13m 2 est. to anchorage.

Remarks: 2 pilots. Thrusters not considered. **Remarks:** 2 pilots. Thrusters not considered. **Berthing Guidelines** Pending

Location: URMPS/URMA Transit Mawan – Bulker & Tanker (All vessels other than passenger & container ship)

> LOA≤230m: Restricted transit period @ Mawan = Current Against > 2.5 knots / With > 1.5 knots LOA>230m: Restricted transit period @ Mawan = Current Against > 1.5 knots / With > 0.5 knots (per current info. supplied by HYDRO office)

Transit @ Mawan : Day = (Sunrise - 30mins.) To (Sunset + 30mins.)

010 LOA: Max 153m 011 LOA: Max 153m N. bound S. bound **Draft:** Max. 11m (min 10% UKC) **Draft:** Max. 11m (min 10% UKC) 24 hrs. 24 hrs. Time: Time: **Tugs:**

Tugs: Remarks: Remarks:

020 N. bound LOA: Max 183m LOA: Max 183m 021 S. bound Max. 12m (min 10% UKC) Max. 12m (min 10% UKC) **Draft: Draft:**

24 hrs. 24 hrs. Time: Time:

Draft>10m subject to current Draft>10m subject to current condition @ Mawan condition @ Mawan

D>10m 1@ Mawan est. D>10m 1@ Mawan est. **Tugs: Tugs:**

Remarks: Remarks:

Mawan

030 N. bound LOA: Max 198m 031 LOA: Max 198m S. bound Max. 12.5m (min 10% UKC) Max. 12.5m (min 10% UKC) **Draft: Draft:** Time: Subject to current condition @ Subject to current condition @ Time:

1 @ Mawan est. 1 @ Mawan est. **Tugs: Tugs:** To URMA: 1 @ Mawan est.

From URMA: 1 @ Mawan est. Draft>10m 1 @ Mawan est. to Draft>10m 1 @ URMA est. to Mawan.

Mawan

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

040 N. bound LOA: Max 230m 041 S. bound LOA: Max 230m Max. 13m (min 10% UKC) Max. 13m (min 10% UKC) **Draft: Draft:**

Subject to current condition @ Subject to current condition @ Time: Time: Mawan Mawan

Draft>12.5m day transit only Draft>12.5m day transit only 1 @ Mawan est. 1 @ Mawan est. Tugs: **Tugs:**

> To URMA: 1 @ Mawan est. From URMA: 1 @ Mawan est. Draft>10m 1 @ Mawan est. to Draft>10m 1 @ URMA est. to

Mawan. Remarks: 2 pilots. Remarks: 2 pilots.

Location: URMPS/URMA

Transit Mawan – Bulker & Tanker
(All vessels other than passenger & container ship)

LOA \le 230m: Restricted transit period @ Mawan = Current Against \rightarrow 2.5 knots / With \rightarrow 1.5 knots

LOA \rightarrow 230m: Restricted transit period @ Mawan = Current Against \rightarrow 1.5 knots / With \rightarrow 0.5 knots

(per current info. supplied by HYDRO office)

050 N. bound LOA: Max 255m 051 S. bound LOA: Max 255m Draft: Max. 14m (min 10% UKC) Day light only Time: Day light only Day light only

Transit @ Mawan: Day = (Sunrise - 30mins.) To (Sunset + 30mins.)

Tugs:

Time: Day light only
Subject to current condition @ Subject to current condition @

Draft>12.5m tidal level must be

above 1.2m

Tugs: 1 @ Mawan est.

Mawan

Draft>10m 1 @ GI est. to Mawan To URMA: 1 @ Mawan est. to URMA. Draft>10m 1 @ GI est. to

URMA

Remarks: 2 pilots. **Remarks:** 2 pilots.

060 N. bound LOA: Max 280m
Draft: Max. 16.8m (min 10% UKC)
Time: Day light only
Subject to current condition @

N. bound LOA: Max 280m
Draft: Max. 16.8m (min 10% UKC)
Time: Day light only
Subject to current condition @
Subject to current condition @

Subject to current condition @ Mawan

Draft>12.5m tidal level must be above 1.2m

Tugs: 1 @ GI est. to Mawan

Draft>14m 2, 1 @ GI est. to

Mawan + 1 @ Mawan
To URMA: 1 @ GI est. to URMA.
Draft>14m 2, 1 @ GI est. to

URMA + 1 @ Mawan est. to URMA

Remarks: 2 pilots.

above 1.2m **Tugs:** 1 @ Mawan est.

Mawan

Mawan

Mawan.

above 1.2m

1 @ Mawan est.

Draft>14m 2 @ Mawan est. From URMA: 1 @ URMA est. to Mawan. Draft>14m 2, 1 @ URMA est. to Mawan + 1 @

D>12.5m tidal level must be

Draft>12.5m tidal level must be

From URMA: 1 @ Mawan est. Draft>10m 1 @ URMA est. to

Mawan

Remarks: 2 pilots.

Berthing Guidelines endorsed on 7 July 1997

Location: TSK-C Transit Mawan passenger & container ship

N. bound LOA: Max 153 m 011 LOA: Max 153m 010 S. bound **Draft:** Max. 9.5m (min 10% UKC) **Draft:** Max. 9.5m (min 10% UKC) Time:

24 hrs. Time: 24 hrs.

Tugs: Tugs: Remarks: Remarks:

N. bound LOA: Max 183m 021 LOA: Max 183m 020 S. bound / Max. 11m (min 10% UKC) Max. 11m (min 10% UKC) **Draft:** Draft: 24 hrs./D>9.5m & night 24 hrs. D>9.5m & night Time: Time:

LW+1 to LW+3 @ Mawan HW+1 to HW+3 @ Mawan

HW-3 to HW @ Mawan LW-2 to LW+1 @ Mawan

Tugs: Tugs: **Remarks:** Remarks;

Time:

03/1 LOA: Max 198m 030 N. bound LOA: Max 198m S. bound

Max. 12.5m (min 10% UKC) **Draft:** Max. 12.5m (min 10% UKC) Draft:

D&N HW to HW+3 & D&N LW to LW+4 & Time: D&N LW-2 to LW+1 @ Mawan D&N HW-3 to HW @ Mawan

Tugs: Tugs:

Remarks: 2 pilots. Remarks: 2 pilots.

040 N. bound LOA: Max 250m 041 S. bound LOA: Max 250m **URMA**

Max. 12.5m (min 10% UKC) Max. 12.5m (min 10% UKC) **Draft: Draft:** D&N HW to HW+3/& D&N LW to LW+3 & Time: Time:

D&N LW-2 to LW @ Mawan D&N HW-2 to HW @ Mawan Mawan only

If L =or>230m / (a) KB est. If L =or>230m 1 @ Mawan est. **Tugs: Tugs:**

Remarks: 2 pilots. Remarks: 2 pilots.

Thrusters not considered. Thrusters not considered.

KB = Kellett buoy.

050 N. bound LOA: Max 300m 051 S. bound LOA: Max 300m Max. 13.8m (min 10% UKC) **Draft:** Max. 13.8m (min 10% UKC) **Draft: Tugs:** Time:

Ø&N HW to HW+2 & Time: D&N LW+1 to LW+3 & D&N LW-1 to LW @ Mawan D&N HW-2 to HW @ Mawan

1 @ KB est. 1 @ Mawan est. Tugs: / **Tugs:** Remarks: 2 pilots.

Remarks: 2 pilots. Thrusters not considered. Thrusters not considered.

KB = Kellett buoy.

pending Berthing Guideline

Location: URMPS-C/URMA-C Transit Mawan – Passenger & Container ship

Restricted transit period @ Mawan = Current Against >3 knots / With >2 knots (per current info. supplied by HYDRO office)

Transit (a) Mawan: Day = (Sunrise - 30mins.) To (Sunset + 30mins.)

010 N. bound LOA: Max 183 m 011 LOA: Max 183m S. bound Max. 12m (min. 10% UKC) Max. 12m (min. 10% UKC) **Draft: Draft:**

Time: 24 hrs. Time: 24 hrs.

Draft>10m subject to current Draft>10m subject to current

condition @ Mawan condition @ Mawan

Tugs: Tugs: Remarks: Remarks:

020 N. bound LOA: Max 230m 021 S. bound LOA: Max 230m Max. 12.5m (min. 10% UKC) Max. 12.5m (min. 10% UKC) **Draft: Draft:** Subject to current condition @ Subject to current condition @ Time: Time:

Mawan

Tugs: Tugs: Remarks: Day: 1 pilot Remarks: Day: 1 pilot

Night: 2 pilots Night: 2 pilots

030 LOA: Max 250m N. bound LOA: Max 250m 031 S. bound Max. 13m (min. 10% UKC) Max. 13m (min. 10% UKC) **Draft: Draft:** Subject to current condition @ Subject to current condition @ Time: Time: Mawan Mawan

1 @ Mawan est. 1 @ Mawan est. **Tugs: Tugs:**

To URMA: 1 @ Mawan est. to From URMA: 1 @ URMA est. to Mawan

Vessel with thruster, tug

exempted to URMA. Tug @

Remarks: 2 pilots. Remarks: 2 pilots.

040 N. bound LOA: Max 280m 041 LOA: Max 280m S. bound **Draft:** Max. 13.5m (min. 10% UKC) **Draft:** Max. 13.5m (min. 10% UKC)

Subject to current condition @ Time: Time: Mawan

1 @ Kellett buoy est. to Mawan

To URMA: 1 @ Kellett buoy

est. to URMA

Vessel with thruster, tug exempted to URMA. Tug @

Kellett buoy est. to Mawan only

Remarks: 2 pilots. Remarks: 2 pilots.

Subject to current condition @

Mawan

Mawan only

Mawan

1 @ Mawan est. **Tugs:** From URMA: 1 @ URMA est. to

Mawan

Vessel with thruster, tug

exempted from URMA. Tug @

Vessel with thruster, tug exempted from URMA. Tug @

Mawan only

p.2

Location: URMPS-C/URMA-C **Transit Mawan – Passenger & Container ship**

Restricted transit period (a) Mawan = Current Against > 3 knots / With > 2 knots (per current info. supplied by HYDRO office) Transit @ Mawan : Day = (Sunrise - 30mins.) To (Sunset + 30mins.)

From URMA: 1 @ URMA est. to

Vessel with thruster, tug exempted from URMA. Tug @

Mawan

Mawan only.

050 N. bound LOA: Max 310m 051 LOA: Max 310m S. bound Max. 14.5m (min. 10% UKC) Max. 14.5m (min. 10% UKC) **Draft: Draft:** Subject to current condition @ Subject to current condition @ Time: Time: Mawan Mawan **Tugs:** 1 @ Mawan est.

1 @ Kellett buoy est. to Mawan **Tugs:** To URMA: 1 @ Kellett buoy

est. to URMA

Draft≤13.5m vessel with thruster, tug exempted to URMA. Tug @ Kellett buoy est.

to Mawan only.

Draft>13.5m thrusters not

considered.

Remarks: 2 pilots. **Remarks:** 2 pilots.

11

Pending

Berthing Guidelines endorsed on 7 July 1997

Location: CCEMENT **China Cement Company (TSK)**

Berthing LOA: Max 153m 010 011 **Unberthing** LOA: Max 153m Max. 8.5m (min 10% UKC) Max. 8.5m (min 10% UKC) **Draft: Draft:**

Day light only Time: Day light only

2 **Tugs: Tugs: Remarks:** Stem to tide for berthing. **Remarks:**

Berth for one ship only.

020 **Berthing** LOA: Max 168m 021 **Unberthing** LOA: Max 168m **Draft:** Max. 9.5m (min 10% UKC) **Draft:** Max. 9.5m (min 10% UKC)

Remarks:

Day light only Day light only Time: Time:

2. If D>9.5m 3 incl. 1 Mawan est. **Tugs:** 2. If D>9.5m 1 Mawan est. Tugs:

Remarks: Stem to tide for berthing.

030 **Berthing** LOA: Max 198m 031 **Unberthing** LOA: Max 198m Max. 12.5m (min 10% UKC) Max. 12.5m (min 10% UKC) **Draft: Draft:** Day HW+1 to HW+3 & Day LW+1 to LW+3 & Time:

Time: Day LW-1 to LW+1.5 @ Mawan Day HW-2 to HW @ Ma Wan

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

Remarks: 2 pilots.

Time:

Stem to tide for berthing.

Remarks: 2 pilots.

2

040 Berthing LOA: Max 240m 041 **Unberthing** LOA: Max 240m Max. 14m (min 10% UKC) Max. 14m (min 10% UKC) **Draft: Draft:**

Day HW+1 to HW+1.5 @ Mawan Time: Day LW+1 to LW+3 @ Mawan Time:

Tugs: 4 incl. 1 GI + 1 Mawan est. Tugs: 3 incl 1 est. to Mawan.

D>13m 2 est. to anchorage. Remarks: 2 pilots.

Remarks: 2 pilots.

Starboard side to.

Location: CCEMENT **China Cement Company (TSK)**

> Restricted transit period (a) Mawan = Current Against > 2.5 knots / With > 1.5 knots (per current info. supplied by HYDRO office) Time @ berth (berthing) from URMA: inform Duty Pilot

010 LOA: Max 168m 011 **Unberthing** LOA: Max 168m Berthing Max. 10m (min 10% UKC) **Draft:**

Day light only Time:

2. **Tugs:**

Berthing Guidelines

Remarks: Stem to tide for berthing.

Max. 10m (min 10% UKC) **Draft:** Day light only Time:

2. **Tugs:**

Remarks:

020 **Berthing** LOA: Max 183m 021 **Unberthing** LOA: Max 183m **← Draft:** Max. 12m (min 10% UKC) **Draft:** Max. 12m (min 10% UKC) Day light only

Day light only Time:

Draft>10m Day HW+1 to HW+2

@ Mawan

2. Draft>10m 1 @ Mawan est. to **Tugs:**

Remarks: 2 pilots. Stem to tide for berthing.

D>10m Starboard side to.

Draft>10m subject to current

condition @ Mawan Day only 2. Draft>10m 1 est. from berth to

Mawan

Remarks: 2 pilots.

Time:

Tugs:

Tugs:

Tugs:

Berthing LOA: Max 230m 030

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

Day HW+1 to HW+1.5 @ Mawan Time:

3 incl. 1 @ Mawan est. to berth **Tugs:**

From URMA: 3 incl. 1 @ URMA

est. to berth Remarks: 2 pilots.

Starboard side to.

040 **Berthing** LOA: Max 240m Max. 14m (min 10% UKC) **Draft:**

Day HW+1 to HW+1.5 @ Mawan Time:

4 incl. 1 @ GI + 1 @ Mawan est. **Tugs:**

to berth

If Draft≤12m 3 incl. 1 @ GI + 1

@ Mawan est. to berth

From URMA: 4 incl. 1 @ URMA est. to berth. If Draft≤12m 3 incl. 1 @ URMA est. to berth

Remarks: 2 pilots. Starboard side to.

031 **Unberthing** LOA: Max 230m **←**

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

Day light only Time: Draft>10m subject to current

condition @ Mawan Day only

2 incl. 1 est. from berth to Mawan To URMA: 2 incl. 1 est. from

berth to URMA

Remarks: 2 pilots.

041 **Unberthing** LOA: Max 240m Max. 14m (min 10% UKC) **Draft:**

Day HW to HW+2 & Time: Day LW+1 to LW+3 @ Mawan

2 incl. 1 est. from berth to Mawan

To URMA: 2 incl. 1 est. from

berth to URMA.

Remarks: 2 pilots.

Berthing Guidelines	endorsed on 7 July 1997	Berthing Guidelines	pending
Location : CLPTSK China ligh	t power station (TSK)	Location: CLPTSK China light	t power station (TSK)
		(per current info	= Current Against >2.5 knots / With >1.5 knots . supplied by HYDRO office) g) from URMA : inform Duty Pilot
010 Berthing LOA: Max 153m Draft: Max. 8.5 (min 10% UKC) Time: Day light only Tugs: 2 Remarks: Stem to tide for berthing.	011 Unberthing LOA: Max 153m Draft: Max. 8.5m (min 10% UKC) Time: Day light only Tugs: 2 Remarks:	010 Berthing LOA: Max 168m Draft: Max. 10m (min 10% UKC) Time: Day light only Tugs: 2. Remarks: Stem to tide for berthing.	011 Unberthing LOA: Max 168m Draft: Max. 10m (min 10% UKC) Time: Day light only Tugs: 2. Remarks:
Draft: Max. 9.5m (min 10% UKC) Time: Day light only Tugs: 2. If D>9.5m 3 incl.1 Mawan est. Remarks: Stem to tide for berthing.	021 Unberthing LOA: Max 168m Draft: Max. 9.5m (min 10% UKC) Time: Day light only Tugs: 2. If D>9.5m 1 Mawan est. Remarks:	Draft: Max. 12m (min 10% UKC) Time: Day light only Draft>10m Day HW+1 to HW+2 & Day LW+0.5 to LW+1.5 @ Mawan Tugs: 2. Draft>10m 1 @ Mawan est. to berth Remarks: 2 pilots. Stem to tide for berthing.	O21 Unberthing LOA: Max 183m Draft: Max. 12m (min 10% UKC) Time: Day light only Draft>10m subject to current condition @ Mawan Day only Tugs: 2. Draft>10m 1 est. from berth to Mawan Remarks: 2 pilots.
O30 Berthing LOA: Max 198m Draft: Max. 12.5m (min 10% UKC) Time: Day HW+1 to HW+3 &	O31 Unberthing LOA: Max 198m Draft: Max. 12.5m (min 10% UKC) Time: Day LW+1 to LW+3 & Day HW-2 to HW @ Mawan Tugs: 2 incl. 1 Mawan est. Remarks: 2 pilots.	Draft: Max. 14m (min 10% UKC) Time: Day HW+1 to HW+1.5 @ Mawan Tugs: 3 incl. 1 @ Mawan est. to berth From URMA: 3 incl. 1 @ URMA est. to berth Remarks: 2 pilots. Starboard side to.	O31 Unberthing LOA: Max 230m ← Draft: Max. 14m (min 10% UKC) Time: Day light only Draft>10m subject to current condition @ Mawan Day only Tugs: 2 incl. 1 est. from berth to Mawan To URMA: 2 incl. 1 est. from berth to URMA Remarks: 2 pilots.
O40 Berthing LOA: Max 255m Draft: Max. 14m (min 10% UKC) Time: Day HW+1 to HW+1.5 @ Mawan Tugs: 4 incl. 1 GI + 1 Mawan est. Remarks: 2 pilots. Starboard side to. O50 Berthing LOA: Max 275m Draft: Max. 16.8m (min 10% UKC) Time: Day HW+1 @ Mawan Tugs: 4 tugs minimum 3000 HP each incl. 1 GI + 1 Mawan est. Remarks: 2 pilots. Starboard side to. 1st Jun - 15th Oct day HW+0.5 @ Mawan.	O41 Unberthing LOA: Max 255m Draft: Max. 14m (min 10% UKC) Time: Day LW+1 to LW+3 @ Mawan Tugs: 3 incl. 1 est. to Mawan. If D>13m 2 est to anchorage. Remarks: 2 pilots. O51 Unberthing LOA: Max 275m Draft: Max. 16.8m (min 10% UKC) Time: Day LW+1 to LW+3 @ Mawan Tugs: 3 incl. 1 est. to Mawan. If D>13m 2 est. to anchorage. Remarks: 2 pilots.	Draft: Max. 16.8m (min 10% UKC) Time: Day HW+1 @ Mawan Tugs: 4 tugs minimum 3000hp each incl. 1 @ GI + 1 @ Mawan est. to berth From URMA: 4 tugs minimum 3000hp each incl. 1 @ URMA est. to berth Remarks: 2 pilots. Starboard side to. 1 st Jun - 15th Oct day HW+0.5 @ Mawan.	O41 Unberthing LOA: Max 280m Draft: Max. 16.8m (min 10% UKC) Time: Day HW to HW+2 &

Berthing Guidelines	endorsed on 7 July 1997	Berthing Guidelines	pending
Location: SWSTL Shiu Wing steel wharf (TSK)		Location: SWSTL Shiu Wing	steel wharf (TSK)
		(per current info.	= Current Against >2.5 knots / With >1.5 knots . supplied by HYDRO office) g) from URMA : inform Duty Pilot
010 Berthing LOA: Max 153m Draft: Max. 8.5m (min 10% UKC) Time: Day light only Tugs: 2 Remarks: Stem to tide for berthing. Berth for one ship only.	O11 Unberthing LOA: Max 153m Draft: Max. 8.5m (min 10% UKC) Time: Day light only Tugs: 2 Remarks:	010 Berthing LOA: Max 168m Draft: Max. 10m (min 10% UKC) Time: Day light only Tugs: 2. Remarks: Stem to tide for berthing.	011 Unberthing LOA: Max 168m Draft: Max. 10m (min 10% UKC) Time: Day light only Tugs: 2. Remarks:
020 Berthing LOA: Max 168m Draft: Max. 9.5m (min 10% UKC) Time: Day light only Tugs: 2. If D>9.5m 3 incl. 1 Mawan est Remarks: Stem to tide for berthing.	021 Unberthing LOA: Max 168m Draft: Max. 9.5m (min 10% UKC) Time: Day light only Tugs: 2. If D>9.5m 1 Mawan est. Remarks:	Draft: Max. 11.5m (min 10% UKC) Time: Day light only Draft>10m Day HW+1 to HW+2 & Day LW+0.5 to LW+1.5 @ Mawan Tugs: 2. D>10m 1 @ Mawan est. to berth	021 Unberthing LOA: Max 183m Draft: Max. 11.5m (min 10% UKC) Time: Day light only Draft>10m subject to current condition @ Mawan Day only Tugs: 2. D>10m 1 est. from berth to Mawan
		Remarks: 2 pilots. Stem to tide for berthing.	Remarks: 2 pilots.
030 Berthing LOA: Max 200m Draft: Max. 11.5m (min 10% UKC) Time: Day HW+1 to HW+3 & Day LW-1 to LW+1.5 @ Mawan Tugs: 3 incl. 1 Mawan est. if L>183m of	031 Unberthing LOA: Max 200m Draft: Max. 11.5m (min 10% UKC) Time: Day LW+1 to LW+3 & Day HW-2 to HW @ Mawan Tugs: 2 incl. 1 Mawan est. if L>183m	030 Berthing LOA: Max 200m Draft: Max. 11.5m (min 10% UKC) Time: Day HW+1 to HW+1.5 & Day LW+0.5 to LW+1.5 @	031 Unberthing LOA: Max 200m Draft: Max. 11.5m (min 10% UKC) Time: Subject to current condition @ Mawan Day only
Tugs: 3 incl. 1 Mawan est. if L>183m of D>9.5m Remarks: 2 pilots. Stem to tide for berthing.	or D>9.5m If D>10m 1 @ WA Remarks: 2 pilots.	Mawan 3 incl. 1 @ Mawan est. to berth From URMA: 3 incl. 1 @ URMA est. to berth Remarks: 2 pilots. Stem to tide for berthing.	Tugs: 2 incl. 1 est. from berth to Mawan To URMA: 2 incl. 1 est. from berth to URMA Remarks: 2 pilots.

Berthing Guidelines

endorsed on 7 July 2002

Location: TSKA TSK anchorage to/from wharf

To anchorage LOA: Max 230m 011 From anchorage LOA: Max 230m

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

Time: Day light only (anchor off wharf)
Tugs: D>10m 1 @ anchorage
Tugs: D>10m 1 @ anchorage

2 @ berth if L<168m & D<9.5m.

3 @ berth if L<198m.

 $4 \stackrel{\circ}{(a)}$ berth if L > 198m.

Remarks: L>168m 2 pilots Remarks: L>168m 2/pilots

020 To anchorage LOA: Max 255m 021 From anchorage LOA: Max 255m

Draft: Max. 14m (min 10% UKC) **Draft:** Max. 14m (min 10% UKC) **Time:** Day light only (anchor off wharf) **Time:** Day slack water

Time: Day light only (anchor off wharf)
Tugs: 1 est. to anchorage. 3 @ berth

Tugs: / Day slack water
Tugs: / 2 @ anchorage. 4 @ berth

Pomorba: 2 mileta

Remarks: 2 pilots. **Remarks:** 2 pilots.

030 To anchorage LOA: Max 272m /031 From anchorage LOA: Max 272m

Draft: Max. 15m (min 10% UKC) / **Draft:** Max. 15m (min 10% UKC)

Time: Day light only (anchor off wharf) **Time:** Day LW+2 to LW+3 Port Side to. Day HW+2 Stbd. Side to. @ berth.

Tugs: 2 est. to anchorage. 3 @ berth Tugs: 2 @ anchorage. 4 @ berth

Remarks: 2 pilots. / **Remarks:** 2 pilots.

/ Time may vary with seasons.

040 To anchorage LØA: Max 275m 041 From anchorage LOA: Max 275m

Draft: Max. 16.5m (min 10% UKC)
Time: Day light only (anchor off wharf)

Draft: Max. 16.5m (min 10% UKC)

Time: Day LW+2 to LW+3 Port side to.

Day HW+2 Stbd. Side to. @ berth.

Tugs: 2 est. to anchorage. 4 @ berth Tugs: 2 @ anchorage. 4 @ berth

Remarks: 2 pilots. / Remarks: 2 pilots.

Time may vary with seasons.

Berthing Guidelines	PAC endorsed on 7 July 1999	Berthing Guidelines	Pending
	sources T/Y main berth (A)	-	esources T/Y main berth (A)
010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks: Port side to.	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks: Port side to.	O11 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:
020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks: Port side to.	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks: Port side to.	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
030 Berthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2. If D>10m 1 GI est. Remarks: Port side to.	031 Unberthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	030 Berthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2. If Draft>10m 1 GI est. Remarks: Port side to.	031 Unberthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: D&N HW. If D<10m 24hrs. Tugs: 3 incl. 1 GI est. Remarks: Day 1 pilot, night 2 pilots. Port side to.	041 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: Draft≤10m 24hrs. Draft>10m, D&N HW-1 to HW+1 D&N LW to LW+1 Tugs: 3 incl. 1 GI est. If Draft≤11m 2 incl. 1 GI est. Remarks: Day 1 pilot, Night 2 pilots. Berthing at LW to LW+1: 2 pilots. Port side to.	041 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
050 Berthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: D&N HW. Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Port side to.	051 Unberthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: 24 hrs. Tugs: 3 Remarks:	050 Berthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: D&N HW-1 to HW+1 D&N LW to LW+1 Tugs: 3 incl. 1 GI est. Remarks: 2 pilots. Port side to.	051 Unberthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:

Berthing Guidelines	PAC endorsed on 7 July 1999	Berthing Guidelines	Pending
Location: CTX Caltex T/Y	Y main berth	Location: CTX Caltex T/Y	main berth
010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW to LW+3	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs.	010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW to LW+3	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs.
Tugs: 2 (grade II) Remarks: Starboard side to.	Tugs: 2 (grade II) Remarks:	Tugs: 2 (grade II) Remarks: Starboard side to.	Tugs: 2 (grade II) Remarks:
020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+1 & D&N LW to LW+2	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs.	020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW+1 to LW+2	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs.
Tugs: 2 Remarks: Starboard side to.	Tugs: 2 Remarks:	Tugs: 2 Remarks: Starboard side to.	Tugs: 2 Remarks:
030 Berthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: D&N HW Tugs: 2. If D>10m 1 GI est. Remarks: Starboard side to.	O31 Unberthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	030 Berthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: D&N HW to HW+1 &	031 Unberthing LOA: Max 184m ← Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
O40 Berthing LOA: Max 220m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW Tugs: 3 incl. 1 GI est. Remarks: Day 1 pilot, night 2 pilots. Starboard side to.	041 Unberthing LOA: Max 220m Draft: Max. 12.6m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	O40 Berthing LOA: Max 220m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW to HW+1 &	041 Unberthing LOA: Max 220m Draft: Max. 12.6m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
050 Berthing LOA: Max 235m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Starboard side to.	O51 Unberthing LOA: Max 235m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW-1 to HW+2 &	050 Berthing LOA: Max 235m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW to HW+1 &	O51 Unberthing LOA: Max 235m Draft: Max. 12.6m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW to LW+2 Tugs: 2 Remarks:

Item 9

Berthing Guidelines PAC endorsed on 7 July 1999

Location: CTX-LPG Caltex T/Y LPG berth

010 **Berthing** LOA: Max 80m 011 **Unberthing** LOA: Max 80m Max. 6.5m (min 10% UKC) Max. 6.5m (min 10% UKC) **Draft: Draft:** D&N LW to LW+3 D&N LW to HW Time: Time:

1 (grade II) **Tugs: Tugs:** 1 (grade II)

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

Bow not to pass 6.5m sign

Not to be replaced by 1 (grade I)

board.

board.

tug.

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

Day LW to LW+2 Day LW to HW Time: Time: **Tugs:** 2 (grade II) **Tugs:** 2 (grade II)

Remarks: Starboard side to. **Remarks:** Not to be replaced by 1 (grade I) Bow not to pass 6.5m sign

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

tug.

Berthing Guidelines

Location: CTX-LPG Caltex T/Y LPG berth

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

D&N LW to LW+3 Time:

Tugs: 1 (grade II) **Tugs:**

Remarks: Starboard side to.

Bow not to pass 6.5m sign

board.

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

Day LW to LW+2 Time:

Tugs: 2 (grade II)

Remarks: Starboard side to.

Bow not to pass 6.5m sign

board.

Not to be replaced by 1 (grade I)

24 hrs. HW to LW: 2 (grade II) tug.

Pending

LW to HW: 1 (grade II) tug.

Remarks:

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

24 hrs. Time:

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

LW to HW: 2 (grade II) tug.

Remarks:

Berthing Guidelines	PAC endorsed on 7 July 1999	Berthing Guidelines	Pending
Location : ESSO Esso oil to	erminal main berth	Location: ESSO Esso oil to	erminal main berth
010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks: Port side to.	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks: Port side to.	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:
020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks: Port side to.	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks: Port side to.	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
030 Berthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2. If D>10m 1 GI est. Remarks: Port side to.	O31 Unberthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2. If Draft>10m 1 GI est. Remarks: Port side to.	O31 Unberthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: D&N HW. D<10m 24 hrs. Tugs: 3 incl. 1 GI est. Remarks: Day 1 pilot, night 2 pilots. Port side to.	041 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: Draft≤10m 24hrs. Draft>10m, D&N HW-1 to HW+1 D&N LW to LW+1 Tugs: 3 incl. 1 GI est. If Draft≤11m 2 incl. 1 GI est.	O41 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2
		Remarks: Day 1 pilot, Night 2 pilots. Berthing at LW to LW+1: 2 pilots. Port side to.	Remarks:
050 Berthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: D&N HW Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Port side to.	051 Unberthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: 24 hrs. Tugs: 3 Remarks:	O50 Berthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: D&N HW-1 to HW+1 D&N LW to LW+1 Tugs: 3 incl. 1 GI est. Remarks: 2 pilots. Port side to.	051 Unberthing LOA: Max 250m Draft: Max. 14m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks: 4———
060 Berthing LOA: Max 274m Draft: Max. 14.63m (min 10% UKC) Time: D&N HW. JunSept. HW-0.5 Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Port side to	061 Unberthing LOA: Max 274m Draft: Max. 14.63m (min 10% UKC) Time: 24 hrs. Tugs: 3 Remarks:	060 Berthing LOA: Max 274m Draft: Max. 14.63m (min 10% UKC) Time: D&N HW to HW+1 (JunSept. HW-0.5) Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Port side to	061 Unberthing LOA: Max 274m Draft: Max. 14.63m (min 10% UKC) Time: 24 hrs. Tugs: 3 Remarks:

Berthing Guidelines Location: MOBIL Mobil oil	PAC endorsed on 7 July 1999 terminal main berth	Berthing Guidelines Location: MOBIL Mobil oil t	Pending erminal main berth
010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	O11 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:
020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW-2 to LW+1	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs.	020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW-2 to LW+1	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs.
Tugs: 2 Remarks: Port side to.	Tugs: 2 Remarks:	Tugs: 2 Remarks: Port side to.	Tugs: 2 Remarks:
030 Berthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: D&N HW Tugs: 2. If D>10m incl 1 GI est. Remarks: Port side to.	O31 Unberthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	 ▶ 030 Berthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: D&N HW to HW+1 D&N LW to LW+1 Tugs: 2. If D>10m 1 GI est. Remarks: Port side to. 	031 Unberthing LOA: Max 184m ← Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: D&N HW Tugs: 3 incl. 1 GI est. Remarks: Day 1 pilot, night 2 pilots. Port side to.	041 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	040 Berthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: D&N HW to HW+1 D&N LW to LW+1 Tugs: 3 incl. 1 GI est. If Draft≤11m 2 incl. 1 GI est. Remarks: Day 1 pilot, Night 2 pilots. Berthing at LW to LW+1: 2 pilots. Port side to.	041 Unberthing LOA: Max 220m Draft: Max. 13m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
050 Berthing LOA: Max 250m Draft: Max. 14.6m (min 10% UKC) Time: D&N HW Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Port side to.	O51 Unberthing LOA: Max 250m Draft: Max. 14.6m (min 10% UKC) Time: 24 hrs. Tugs: 3 Remarks:	050 Berthing LOA: Max 250m Draft: Max. 14.6m (min 10% UKC) ► Time: D&N HW to HW+1 D&N LW to LW+1 ► Tugs: 3 incl. 1 GI est. Remarks: 2 pilots. Port side to.	051 Unberthing LOA: Max 250m Draft: Max. 14.6m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:

Berthing Guidelines	PAC endorsed on 7 July 1999	Berthing Guidelines	Pending
Location : SHELL Shell oil t	erminal main berth	Location: SHELL Shell oil terr	minal main berth
010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: D&N HW-1 to HW+2 &	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:	010 Berthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: D&N HW-1 to HW+2 &	011 Unberthing LOA: Max 120m Draft: Max. 8m (min 10% UKC) Time: 24 hrs. Tugs: 2 (grade II) Remarks:
020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+1 &	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	020 Berthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: D&N HW-1 to HW+2 & D&N LW+1 to LW+2 Tugs: 2 Remarks: Starboard side to.	021 Unberthing LOA: Max 150m Draft: Max. 10m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
030 Berthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: D&N HW Tugs: 2. If D>10m 1 GI est. Remarks: Starboard side to.	031 Unberthing LOA: Max 180m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	 Date: Max. 12m (min 10% UKC) Dan: Dan: Dan: Dan: Dan: Dan: Dan: Dan:	031 Unberthing LOA: Max 184m Draft: Max. 12m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
040 Berthing LOA: Max 220m Draft: Max. 14.5m (min 10% UKC) Time: D&N HW Tugs: 3 incl. 1 GI est. Remarks: Day 1 pilot, night 2 pilots. Starboard side to.	041 Unberthing LOA: Max 220m Draft: Max. 14.5m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:	O40 Berthing LOA: Max 220m Draft: Max. 14.5m (min 10% UKC) Time: D&N HW to HW+1 & D&N LW+2 Tugs: 3 incl. 1 GI est. If Draft≤11m 2 incl. 1 GI est. Remarks: Day 1 pilot, Night 2 pilots. Berthing at LW+2: 2 pilots. Starboard side to.	041 Unberthing LOA: Max 220m Draft: Max. 14.5m (min 10% UKC) Time: 24 hrs. Tugs: 2 Remarks:
050 Berthing LOA: Max 245m Draft: Max. 14.5m (min 10% UKC) Time: D&N HW Tugs: 4 incl. 1 GI est. Remarks: 2 pilots. Starboard side to.	051	Draft: Max. 14.5m (min 10% UKC) Time: D&N HW to HW+1 & D&N LW+2 Tugs: 3 incl. 1 GI est. Remarks: 2 pilots. Starboard side to.	O51 Unberthing LOA: Max 245m Draft: Max. 14.5m (min 10% UKC) Time: D&N HW-1 to HW+2 &