

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

Briefing Notes on Proposed Amendments to Berthing Guidelines

	Description		Amendments	Implications
1.	Location: URMPS/URMA	Transit Mawan – Bulkier & Tanker (All vessels other than passenger & 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 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	Transit Ma Wan – Passenger & 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. New Classifications according to vessels LOA and draft. To extend tidal window and relax tug requirements.	<p>(i) LOA < 153-168m Draft 9.5-10.0m Escort tug: eliminated.</p> <p>(ii) LOA 168-183m Unberthing window: extended to full daylight. Berthing tug: reduced by 1 Draft <10m Berthing window: extended to full daylight. Escort tug: eliminated.</p> <p>Draft 10-12m Berthing window: reduced by 3.5 hours. Remark: starboard side to.</p> <p>(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.</p> <p>(iv) LOA 198-230m Tug: reduced by 1. Unberthing window: extended to full daylight.</p> <p>(v) LOA 230m-240m Unberthing window: extended by 2 hours. Draft <12m Tug: reduced by 1. Draft 12-14m Unberthing tug: reduced by 1. Draft 13-14m Escort tug: reduced by 1.</p>
4.	Location: CLPTSK	China Light Power (TSK)	New Classifications according to vessels LOA and draft. To extend tidal window and relax tug requirements.	<p>(i) LOA 153-168m Draft 9.5-10m Berthing/Unberthing window: Extended to full daylight. Berthing tug: reduced by 1. Escort tug: eliminated.</p> <p>(ii) LOA 168-183m Draft <10m</p>

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

				(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 \leq 80m Unberthing tug: increased by 1 when unberthing on falling tide. (ii) LOA \leq 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 requirements.	<p>(i) LOA 180-184m Draft 10-12m Berthing window: extended to 24 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug : eliminated.</p> <p>(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 .</p> <p>(iii) LOA 230-250m Berthing window: extended by 5 hours Tug: reduced by 1.</p> <p>(iv) LOA 250-274m Berthing Time: extended by 5 hours.</p>
11.	Location: MOBIL	Mobil Oil Terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	<p>(i) LOA 180-184m Draft <12m Berthing window: extended by 3 hours. Berthing Tug: reduced by 1. Draft < 10m Escort Tug : eliminated.</p> <p>(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 .</p> <p>(iii) LOA 230-250m Berthing window: extended by 3 hours Tug: reduced by 1.</p>
12.	Location: SHELL	Shell oil terminal main berth	New Classifications according to vessels LOA and draft, extend tidal window, and relax tug requirements.	<p>(i) LOA 120-150m Berthing window: change tidal window</p> <p>(ii) LOA 180-184m Draft <12m Berthing window: extended by 3 hours.</p>

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

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

Berthing Guidelines

endorsed on 7 July 1997

Location : TSK **Transit Mawan other than passenger & container ship (bulker)**

010 **N. bound** LOA: Max 153m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. D>8.5m & night
 HW+1 to HW+3 @ Mawan.
Tugs: D>10m 1 @ anchorage.
Remarks: Thrusters not considered.

011 **S. bound** LOA: Max 153m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. D>8.5m & night
 LW+1 to LW+3 @ Mawan.
Tugs: D>10m 1 @ anchorage.
Remarks: Thrusters not considered.

020 **N. bound** LOA: Max 183m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. If D>9.5m day light only
 If D>8.5m & night HW+1 to
 HW+3 @ Mawan.
Tugs: D>8.5m & night 1 @ Mawan est.
 D>9.5m 1 @ Mawan est.
 D>10m 1 @ anchorage.
Remarks: Thrusters not considered.

021 **S. bound** LOA: Max 183m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. If D>9.5m day light only
 If D>8.5m & night LW+1 to
 LW+3 @ Mawan.
Tugs: D>8.5m & night 1 @ Mawan est.
 D>9.5m 1 @ Mawan est.
 D>10m 1 @ anchorage.
Remarks: Thrusters not considered.

030 **N. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Day HW+1 to HW+3 &
 Day LW-1 to LW+1.5 @ Mawan
Tugs: 1 Mawan est.
 D>10m 1 @ anchorage.
Remarks: 2 pilots. Thrusters not considered.

031 **S. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Day LW+1 to LW+3 &
 Day HW-2 to HW @ Mawan
Tugs: 1 Mawan est.
 D>10m 1 @ anchorage.
Remarks: 2 pilots. Thrusters not considered.

040 **N. bound** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day HW+1 to HW+1.5 @ Mawan
Tugs: 1 @ Mawan est. if L>230m and
 D>10m 1 est. from GI to
 anchorage.
Remarks: 2 pilots. Thrusters not considered.

041 **S. bound** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day LW+1 to LW+3 @ Mawan
Tugs: 1 @ Mawan est. if L>230m and
 D>10m 1 est. @ POB.
 D>13m 2 est. to anchorage
Remarks: 2 pilots. Thrusters not considered.

050 **N. bound** LOA: Max 275m
Draft: Max. 16.5m (min 10% UKC)
Time: Day HW+1 @ Mawan
Tugs: 2. 1 @ GI + 1 @ Mawan est. to
 anchorage.
Remarks: 2 pilots. Thrusters not considered.

051 **S. bound** LOA: Max 275m
Draft: Max. 16.5m (min 10% UKC)
Time: Day LW+1 to LW+3 @ Mawan
Tugs: 2. 1 @ POB + 1 @ Mawan est.
 D<9m 1 POB est. to anchorage.
 D>13m 2 est. to anchorage.
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 **N. bound** LOA: Max 153m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs.
Tugs:
Remarks:

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

020 **N. bound** LOA: Max 183m
Draft: Max. 12m (min 10% UKC)
Time: 24 hrs.
 Draft>10m subject to current
 condition @ Mawan
Tugs: D>10m 1 @ Mawan est.
Remarks:

021 **S. bound** LOA: Max 183m
Draft: Max. 12m (min 10% UKC)
Time: 24 hrs.
 Draft>10m subject to current
 condition @ Mawan
Tugs: D>10m 1 @ Mawan est.
Remarks:

030 **N. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 1 @ Mawan est.
 To URMA: 1 @ Mawan est.
 Draft>10m 1 @ Mawan est. to
 URMA.
Remarks: Day: 1 pilot
 Night: 2 pilots

031 **S. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 1 @ Mawan est.
 From URMA: 1 @ Mawan est.
 Draft>10m 1 @ URMA est. to
 Mawan.
Remarks: Day: 1 pilot
 Night: 2 pilots

040 **N. bound** LOA: Max 230m
Draft: Max. 13m (min 10% UKC)
Time: Subject to current condition @
 Mawan
 Draft>12.5m day transit only
Tugs: 1 @ Mawan est.
 To URMA: 1 @ Mawan est.
 Draft>10m 1 @ Mawan est. to
 URMA.
Remarks: 2 pilots.

041 **S. bound** LOA: Max 230m
Draft: Max. 13m (min 10% UKC)
Time: Subject to current condition @
 Mawan
 Draft>12.5m day transit only
Tugs: 1 @ Mawan est.
 From URMA: 1 @ Mawan est.
 Draft>10m 1 @ URMA est. to
 Mawan.
Remarks: 2 pilots.

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.)*

050 **N. bound** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day light only
 Subject to current condition @ Mawan
 Draft>12.5m tidal level must be above 1.2m
Tugs: 1 @ Mawan est.
 Draft>10m 1 @ GI est. to Mawan
 To URMA: 1 @ Mawan est. to URMA. Draft>10m 1 @ GI est. to URMA
Remarks: 2 pilots.

051 **S. bound** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day light only
 Subject to current condition @ Mawan
 Draft>12.5m tidal level must be above 1.2m
Tugs: 1 @ Mawan est.
 From URMA: 1 @ Mawan est. Draft>10m 1 @ URMA est. to Mawan.
Remarks: 2 pilots.

060 **N. bound** LOA: Max 280m
Draft: Max. 16.8m (min 10% UKC)
Time: Day light only
 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.

061 **S. bound** LOA: Max 280m
Draft: Max. 16.8m (min 10% UKC)
Time: Day light only
 Subject to current condition @ Mawan
 D>12.5m tidal level must be above 1.2m
Tugs: 1 @ Mawan est.
 Draft>14m 2 @ Mawan est.
 From URMA: 1 @ URMA est. to Mawan. Draft>14m 2, 1 @ URMA est. to Mawan + 1 @ Mawan
Remarks: 2 pilots.

Berthing Guidelines

endorsed on 7 July 1997

Location : TSK-C

Transit Mawan passenger & container ship

010 **N. bound** LOA: Max 153 m
Draft: Max. 9.5m (min 10% UKC)
Time: 24 hrs.
Tugs:
Remarks:

011 **S. bound** LOA: Max 153m
Draft: Max. 9.5m (min 10% UKC)
Time: 24 hrs.
Tugs:
Remarks:

020 **N. bound** LOA: Max 183m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. D>9.5m & night
 HW+1 to HW+3 @ Mawan
 LW-2 to LW+1 @ Mawan
Tugs:
Remarks:

021 **S. bound** LOA: Max 183m
Draft: Max. 11m (min 10% UKC)
Time: 24 hrs. D>9.5m & night
 LW+1 to LW+3 @ Mawan
 HW-3 to HW @ Mawan
Tugs:
Remarks:

030 **N. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: D&N HW to HW+3 &
 D&N LW-2 to LW+1 @ Mawan
Tugs:
Remarks: 2 pilots.

031 **S. bound** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: D&N LW to LW+4 &
 D&N HW-3 to HW @ Mawan
Tugs:
Remarks: 2 pilots.

040 **N. bound** LOA: Max 250m
Draft: Max. 12.5m (min 10% UKC)
Time: D&N HW to HW+3 &
 D&N LW-2 to LW @ Mawan
Tugs: If L =or>230m 1 @ KB est.
Remarks: 2 pilots.
 Thrusters not considered.
 KB = Kellett buoy.

041 **S. bound** LOA: Max 250m
Draft: Max. 12.5m (min 10% UKC)
Time: D&N LW to LW+3 &
 D&N HW-2 to HW @ Mawan
Tugs: If L =or>230m 1 @ Mawan est.
Remarks: 2 pilots.
 Thrusters not considered.

050 **N. bound** LOA: Max 300m
Draft: Max. 13.8m (min 10% UKC)
Time: D&N HW to HW+2 &
 D&N LW-1 to LW @ Mawan
Tugs: 1 @ KB est.
Remarks: 2 pilots.
 Thrusters not considered.
 KB = Kellett buoy.

051 **S. bound** LOA: Max 300m
Draft: Max. 13.8m (min 10% UKC)
Time: D&N LW+1 to LW+3 &
 D&N HW-2 to HW @ Mawan
Tugs: 1 @ Mawan est.
Remarks: 2 pilots.
 Thrusters not considered.

Berthing Guideline

pending

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

010 **N. bound** LOA: Max 183 m
Draft: Max. 12m (min. 10% UKC)
Time: 24 hrs.
 Draft>10m subject to current
 condition @ Mawan

011 **S. bound** LOA: Max 183m
Draft: Max. 12m (min. 10% UKC)
Time: 24 hrs.
 Draft>10m subject to current
 condition @ Mawan

Tugs:
Remarks:

Tugs:
Remarks:

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

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

Tugs:
Remarks: Day: 1 pilot
 Night: 2 pilots

Tugs:
Remarks: Day: 1 pilot
 Night: 2 pilots

030 **N. bound** LOA: Max 250m
Draft: Max. 13m (min. 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 1 @ Mawan est.
 To URMA: 1 @ Mawan est. to
 URMA
 Vessel with thruster, tug
 exempted to URMA. Tug @
 Mawan only

031 **S. bound** LOA: Max 250m
Draft: Max. 13m (min. 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 1 @ Mawan est.
 From URMA: 1 @ URMA est. to
 Mawan
 Vessel with thruster, tug
 exempted from URMA. Tug @
 Mawan only

Remarks: 2 pilots.

Remarks: 2 pilots.

040 **N. bound** LOA: Max 280m
Draft: Max. 13.5m (min. 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 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

041 **S. bound** LOA: Max 280m
Draft: Max. 13.5m (min. 10% UKC)
Time: Subject to current condition @
 Mawan
Tugs: 1 @ Mawan est.
 From URMA: 1 @ URMA est. to
 Mawan
 Vessel with thruster, tug
 exempted from URMA. Tug @
 Mawan only

Remarks: 2 pilots.

Remarks: 2 pilots.

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 @ Mawan : Day = (Sunrise – 30mins.) To (Sunset + 30mins.)*

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

051 **S. bound** LOA: Max 310m
Draft: Max. 14.5m (min. 10% UKC)
Time: Subject to current condition @ Mawan
Tugs: 1 @ Mawan est.
From URMA: 1 @ URMA est. to Mawan
Vessel with thruster, tug exempted from URMA. Tug @ Mawan only.

Remarks: 2 pilots.

Berthing Guidelines

endorsed on 7 July 1997

Location : CCEMENT

China Cement Company (TSK)

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.

011 **Unberthing** LOA: Max 153m
Draft: Max. 8.5m (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:

030 **Berthing** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Day HW+1 to HW+3 &
 Day LW-1 to LW+1.5 @ Mawan
Tugs: 3 incl. 1 Mawan est.
Remarks: 2 pilots.
 Stem to tide for berthing.

031 **Unberthing** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Day LW+1 to LW+3 &
 Day HW-2 to HW @ Ma Wan
Tugs: 2 incl. 1 Mawan est.
Remarks: 2 pilots.

040 **Berthing** LOA: Max 240m
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.

041 **Unberthing** LOA: Max 240m
Draft: Max. 14m (min 10% UKC)
Time: Day LW+1 to LW+3 @ Mawan
Tugs: 3 incl 1 est. to Mawan.
 D>13m 2 est. to anchorage.
Remarks: 2 pilots.

Berthing Guidelines

Pending

Location : CCEMENT

China Cement Company (TSK)

**Restricted transit period @ 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 **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 183m
Draft: Max. 12m (min 10% UKC)
Time: Day light only
 Draft>10m Day HW+1 to HW+2 @ Mawan
Tugs: 2. Draft>10m 1 @ Mawan est. to berth
Remarks: 2 pilots. Stem to tide for berthing.
 D>10m Starboard side to.

021 **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.

030 **Berthing** LOA: Max 230m
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.

031 **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.

040 **Berthing** LOA: Max 240m
Draft: Max. 14m (min 10% UKC)
Time: Day HW+1 to HW+1.5 @ Mawan
Tugs: 4 incl. 1 @ GI + 1 @ Mawan est. 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.

041 **Unberthing** LOA: Max 240m
Draft: Max. 14m (min 10% UKC)
Time: Day HW to HW+2 &
 Day LW+1 to LW+3 @ Mawan
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 1997

Location : CLPTSK

China light power station (TSK)

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:

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:

030 **Berthing** LOA: Max 198m
Draft: Max. 12.5m (min 10% UKC)
Time: Day HW+1 to HW+3 &
Day LW-1 to LW+1.5 @ Mawan
Tugs: 3 incl. 1 Mawan est.
Remarks: 2 pilots.
Stem to tide for berthing.

031 **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.

040 **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.

041 **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.

050 **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.

051 **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.

Berthing Guidelines

pending

Location : CLPTSK

China light power station (TSK)

**Restricted transit period @ 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 **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 183m
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.

021 **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.

030 **Berthing** LOA: Max 230m
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.

031 **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.

040 **Berthing** LOA: Max 280m
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.
1st Jun – 15th Oct day HW+0.5 @
Mawan.

041 **Unberthing** LOA: Max 280m
Draft: Max. 16.8m (min 10% UKC)
Time: Day HW to HW+2 &
Day LW+1 to LW+3 @ Mawan
Tugs: 2 incl. 1 est. from berth to Mawan
To URMA: 2 incl. 1 est. from
berth to URMA. If D>14m 2
est. from berth to URMA
Remarks: 2 pilots.

Berthing Guidelines

endorsed on 7 July 1997

Location : SWSTL

Shiu Wing steel wharf (TSK)

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.

011 **Unberthing** LOA: Max 153m
Draft: Max. 8.5m (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:

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 or
 D>9.5m
Remarks: 2 pilots.
 Stem to tide for berthing.

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
 or D>9.5m
 If D>10m 1 @ WA
Remarks: 2 pilots.

Berthing Guidelines

pending

Location : SWSTL

Shiu Wing steel wharf (TSK)

**Restricted transit period @ 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 **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 183m
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
Remarks: 2 pilots.
 Stem to tide for berthing.

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.

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 @
 Mawan
Tugs: 3 incl. 1 @ Mawan est. to berth
**From URMA: 3 incl. 1 @ URMA
 est. to berth**
Remarks: 2 pilots.
 Stem to tide for berthing.

031 **Unberthing** LOA: Max 200m
Draft: Max. 11.5m (min 10% UKC)
Time: 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.

Berthing Guidelines

endorsed on 7 July 2002

Location : TSKA

TSK anchorage to/from wharf

010 **To anchorage** LOA: Max 230m
Draft: Max. 10m (min 10% UKC)
Time: Day light only (anchor off wharf)
Tugs: D>10m 1 @ anchorage

Remarks: L>168m 2 pilots

011 **From anchorage** LOA: Max 230m
Draft: Max. 10m (min 10% UKC)
Time: Day light only
Tugs: D>10m 1 @ anchorage.
 2 @ berth if L<168m & D<9.5m.
 3 @ berth if L<198m.
 4 @ berth if L>198m.

Remarks: L>168m 2 pilots

020 **To anchorage** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day light only (anchor off wharf)
Tugs: 1 est. to anchorage. 3 @ berth
Remarks: 2 pilots.

021 **From anchorage** LOA: Max 255m
Draft: Max. 14m (min 10% UKC)
Time: Day slack water
Tugs: 2 @ anchorage. 4 @ berth
Remarks: 2 pilots.

030 **To anchorage** LOA: Max 272m
Draft: Max. 15m (min 10% UKC)
Time: Day light only (anchor off wharf)
Tugs: 2 est. to anchorage. 3 @ berth
Remarks: 2 pilots.

031 **From anchorage** LOA: Max 272m
Draft: Max. 15m (min 10% UKC)
Time: Day LW+2 to LW+3 Port Side to.
 Day HW+2 Stbd. Side to. @ berth.
Tugs: 2 @ anchorage. 4 @ berth
Remarks: 2 pilots.
 Time may vary with seasons.

040 **To anchorage** LOA: Max 275m
Draft: Max. 16.5m (min 10% UKC)
Time: Day light only (anchor off wharf)
Tugs: 2 est. to anchorage. 4 @ berth
Remarks: 2 pilots.

041 **From anchorage** LOA: Max 275m
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 @ anchorage. 4 @ berth
Remarks: 2 pilots.
 Time may vary with seasons.

Berthing Guidelines

PAC endorsed on 7 July 1999

Location : CRC-A

China Resources 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:

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:

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:

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:

Berthing Guidelines

Pending

Location : CRC-A

China Resources 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:

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 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: **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-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

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
Tugs: 2 (grade II)
Remarks: Starboard 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: D&N HW-1 to HW+1 & D&N LW 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:

040 **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:

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.

051 **Unberthing** LOA: Max 235m
Draft: Max. 12.6m (min 10% UKC)
Time: D&N HW-1 to HW+2 & D&N LW-2 to LW+1
Tugs: 3
Remarks:

Berthing Guidelines

Pending

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
Tugs: 2 (grade II)
Remarks: Starboard 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: 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 184m
Draft: Max. 12m (min 10% UKC)
Time: D&N HW to HW+1 & D&N LW+2
Tugs: 2. If Draft>10m 1 GI est.
Remarks: Starboard 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. 12.6m (min 10% UKC)
Time: D&N HW to HW+1 & D&N LW+2
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:

050 **Berthing** LOA: Max 235m
Draft: Max. 12.6m (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.

051 **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:

Berthing Guidelines

PAC endorsed on 7 July 1999

Location : CTX-LPG

Caltex T/Y LPG berth

010 **Berthing** LOA: Max 80m
Draft: Max. 6.5m (min 10% UKC)
Time: D&N LW to LW+3
Tugs: 1 (grade II)
Remarks: Starboard side to.
 Bow not to pass 6.5m sign board.

011 **Unberthing** LOA: Max 80m
Draft: Max. 6.5m (min 10% UKC)
Time: D&N LW to HW
Tugs: 1 (grade II)
Remarks:

020 **Berthing** 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) tug.

021 **Unberthing** LOA: Max 114m
Draft: Max. 6.5m (min 10% UKC)
Time: Day LW to HW
Tugs: 2 (grade II)
Remarks: Not to be replaced by 1 (grade I) tug.

Berthing Guidelines

Pending

Location : CTX-LPG

Caltex T/Y LPG berth

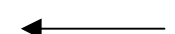
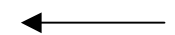
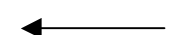
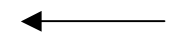
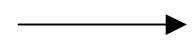
010 **Berthing** LOA: Max 80m
Draft: Max. 6.5m (min 10% UKC)
Time: D&N LW to LW+3
Tugs: 1 (grade II)
Remarks: Starboard side to.
 Bow not to pass 6.5m sign board.

011 **Unberthing** LOA: Max 80m
Draft: Max. 6.5m (min 10% UKC)
Time: 24 hrs.
Tugs: HW to LW: 2 (grade II) tug.
 LW to HW: 1 (grade II) tug.

020 **Berthing** LOA: Max 114m
Draft: Max. 6.5m (min 10% UKC)
Time: Day LW to LW+2
Tugs: 2 (grade II)

021 **Unberthing** LOA: Max 114m
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: Starboard side to.
 Bow not to pass 6.5m sign board.
~~Not to be replaced by 1 (grade I) tug.~~



Berthing Guidelines

PAC endorsed on 7 July 1999

Location : ESSO

Esso oil terminal 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:

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:

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:

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:

060 **Berthing** LOA: Max 274m
Draft: Max. 14.63m (min 10% UKC)
Time: D&N HW. Jun.-Sept. 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

Pending

Location : ESSO

Esso oil terminal 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:

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 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: 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-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:

060 **Berthing** LOA: Max 274m
Draft: Max. 14.63m (min 10% UKC)
Time: D&N HW to HW+1
 (Jun.-Sept. 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

PAC endorsed on 7 July 1999

Berthing Guidelines

Pending

Location : MOBIL

Mobil oil terminal main berth

Location : MOBIL

Mobil oil terminal 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:

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+2 & D&N LW-2 to LW+1
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: D&N HW-1 to HW+2 & D&N LW-2 to LW+1
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: D&N HW
Tugs: 2. If D>10m incl 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: 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.

051 **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

Location : SHELL

Shell oil terminal 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+2
Tugs: 2 (grade II)
Remarks: Starboard 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: D&N HW-1 to HW+1 & D&N LW 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:

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:

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 **Unberthing** LOA: Max 245m
Draft: Max. 14.5m (min 10% UKC)
Time: D&N HW-1 to HW+2 & D&N LW-2 to LW+1
Tugs: 3
Remarks:

Berthing Guidelines

Pending

Location : SHELL

Shell oil terminal 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+2
Tugs: 2 (grade II)
Remarks: Starboard 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: 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 184m
Draft: Max. 12m (min 10% UKC)
Time: D&N HW to HW+1 & D&N LW+2
Tugs: 2. If Draft >10m 1 GI est.
Remarks: Starboard 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. 14.5m (min 10% UKC)
Time: D&N HW to HW+1 & D&N LW+2
Tugs: 3 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 to HW+1 & D&N LW+2
Tugs: 3 incl. 1 GI est.
Remarks: 2 pilots. Starboard side to.

051 **Unberthing** LOA: Max 245m
Draft: Max. 14.5m (min 10% UKC)
Time: D&N HW-1 to HW+2 & D&N LW to LW+2
Tugs: 2
Remarks: