PAC Paper No. 4/2013

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 (BGL) as detailed in the Annex.

Background

2 The first berth of the Kai Tak Cruise Terminal (KTCT) will be commissioned at the site of the former Kai Tak Airport in October 2013.

3. In November 2012, MD and HKPA had jointly conducted simulations for berthing and unberthing of the KTCT-1 in the Marine Department Training Centre. Conclusion was drawn and findings were used for compiling the proposed Berthing Guidelines for KTCT-1. Trial berthing operations had also been made in the first berth (KTCT-1) in March and June 2013 under the framework of the proposed Berthing Guidelines.

The proposed amendments and insertion to the Berthing Guidelines

4. With the experience gained above, a provisional Berthing Guidelines for the new KTCT-1 has been compiled and detailed in item 5 of the Annex. Meanwhile, the corresponding arrangement and requirement for the Berthing Guidelines of Cruise Ship Transiting Central Harbour (CHT) has also been revised in order to meet the need of cruise ships transiting the Central Harbour to and from KTCT. The amendment is detailed in item 4 of the Annex. The proposed requirements will be on a trial basis for a period of one year so that findings from all seasons could be computed accurately for compiling the final figures for execution.

Recommendation

5. Members are recommended to endorse the proposed amendment to the BGL.

Marine Department
September 2013

ANNEX

Notes on Proposed Amendments to Berthing Guidelines

Item No.	Description	Amendments	Reason and Remarks (if any)
1.	Chapter 1 – INDEX (under Berthing Guidelines Index – Code and Location)	Below "KEL-3" & "Kellett Anchorage No. 3" – insert "KTCT-1" & "Kai Tak Cruise Terminal berth 1" under Code and Location respectively.	New cruise terminal at the site of the former Kai Tak Airport
2.	Chapter 8 – BERTH/WHARF/ TERMINAL INFORMATION (under BERTH, Draft(m), LOA(m), Direction, Length & Telephone No.)	Below KC20 – insert "KTCT-1, 11.0, 365, 134/314 & 450"	New cruise terminal at the site of the former Kai Tak Airport
3.	Chapter 12 – Berthing Guidelines **INDEX** (under Code and Location)	Below "KEL-3" & "Kellett Anchorage No. 3" – insert "KTCT-1" & "Kai Tak Cruise Terminal berth 1"	New cruise terminal at the site of the former Kai Tak Airport
4	Location : CHT (Cruise Ship Transiting Central Harbour)	(a) Insert following new items : 010 East Bound LOA: Max 230m Draft: Max. 9.0m (min 10% UKC) Time: 24 Hrs. Tugs: Remarks: 011 West Bound LOA: Max 230m Draft: Max. 9.0m (min 10% UKC) Time: 24 Hrs.	To reflect the requirement for cruise ship to transit the Central Harbour to/from Kai Tak Cruise Terminal

Note : Please refer to the attached individual item 1 – 5 for the current and proposed versions.

		Tugs: Remarks: 021 West Bound LOA: Max 270m Draft: Max. 9.0m (min 10% UKC) Time: 24 Hrs. Tugs: 1 escort Remarks: 031 West Bound LOA: Max 290m Draft: Max. 10.0m (min 10% UKC) Time: D&N HW+1 to LW+1 Tugs: 2 escort Remarks: 2 pilots. 1 patrol boat to clear the passage. 041 West Bound LOA: Max 345m Draft: Max. 10.0m (min 10% UKC) Time: D&N HW+1 to LW+1 Tugs: 2 escort Remarks: 2 pilots. Removal of N1 & N2 buoys. 1 patrol boat to clear the passage. (b) Item 010 renumbered as 020, Tugs - replace "1 Escort from Berth/Anchorage to Hung Hom" with "1 escort". (c) Item 020 renumbered as 030, Tugs – replace "2 Escort from Berth/Anchorage to Hung Hom" with "2 escort", Remarks – delete "to Hung Hom" at the end. (d) Item 030 renumbered as 040, Tugs – Tugs – replace "2 Escort tugs (1 from Berth/Anchorage to Hung Hum and 1 from Berth/Anchorage to TCS4)" with "2 escort", Remarks – delete "to Hung Hom" at the end. (e) General Remarks – (i) Sub-item (1), replace "from Kwai Chung Terminals or anchorages in western harbour" with "via Northern Fairway and Central Fairway". (ii) Sub-item (2), replace with "Wind force in the harbour area is greater than 21 knots, and/or strong monsoon signal is hoisted and/or typhoon signal No.3 is hoisted whichever is applicable."	

Note : Please refer to the attached individual item 1 – 5 for the current and proposed versions.

		(iii) Delete sub-item (3). (iv) Sub-item (4) renumbered to (3). (v) Add new sub-item (4) : "Unless otherwise specified, escort tug/tugs for Central Harbour Transit is/are required for the waters: (a) East Bound: From GI to LYM. (b) West Bound: From TCS4 to GI." (vi) Add new sub-item (5), "For LOA>270m, one patrol boat is required to clear the passage between Kellett Buoy and Hung Hom". (vii) Sub-item (5) renumbered as (6) and replaced with "VTC's prior consent should be sought if it is necessary for a piloted vessel to deviate from the designated traffic route or the general direction of the traffic flow for the purpose of safe navigation and/or maintaining an adequate UKC."	
5	Location : KTCT-1 (Kai Tak Cruise Terminal berth 1)	To incorporate new berthing information of Kai Tak Cruise Terminal berth 1.	New cruise terminal at the site of the former Kai Tak Airport

Note : Please refer to the attached individual item 1 – 5 for the current and proposed versions.

Code	Location
KEL-1	Kellett Anchorage No. 1
KEL-2	Kellett Anchorage No. 2
KEL-3	Kellett Anchorage No. 3
KYCA	Kau Yi Chau DG anchorage
LOP	Lok On Pai oil berth
MFT	Macau ferry terminal
MOBIL	Mobil oil terminal main berth
MOBIL-E	Mobil oil terminal east berth
MWA	Ma Wan anchorage
NLA	North Lamma anchorage
NWLA	North West Lamma anchorage
OTN	Ocean Terminal north berth
OTNO	Ocean Terminal north berth outer-foul
OTS	Ocean Terminal south berth
OTSO	Ocean Terminal south berth outer-foul
PAFF	Permanent Aviation Fuel Facility
PSSA-E	Pun Shan Shek anchorage east
PSSA-W	Pun Shan Shek anchorage west
RDGA	Reserved dangerous goods anchorage
RTT-1	River Trade Terminal No.1 berth
RTT-2	River Trade Terminal No.2 berth
SEATRIAL	Sea trial, compass adjustment & DF calibration
SHACHAU	Sha Chau oil terminal (TSK)
SHELL	Shell oil terminal main berth
SHELL-1E	Shell No. 1 east & west berth
SHELL-2E	Shell No. 2 & 3 east & west berth
SHELL-LPG	Shell oil terminal LPG berth
SINO-A	Sinopec T/Y main berth (A)
SINO-B	Sinopec T/Y west berth (B)
SINO-C	Sinopec T/Y east berth (C)
SINO-CW	Sinopec Chai Wan berth
SINO-3	Sinopec T/Y No. 3 berth
SLA	Anchorages South of Lamma Island
SSK-1	Sham Shui Kok Anchorage No. 1
SSK-2	Sham Shui Kok Anchorage No. 2
SWSTL	Shiu Wing steel wharf (TSK)
THA	Tolo harbour anchorage
TOW	Ship under tow
TOW-BERTH	Ship under tow to/from berth
TPGAS	Tolo harbour Town Gas wharf
TSK-MHB	Tap Shek Kok Material Handling Berth
TYD	Floating docks west of T/Y Island
URMPS/URMA	Transit Mawan – Bulker & Tanker (All vessels other than passenger & container ship)
URMPS-C/ URMA-C	Transit Mawan – Passenger & Container ship
WA-1	Western anchorage No.1
WA-2	Western anchorage No.2
WA-3	Western anchorage No.3
WQA	Western quarantine anchorage
YMTA	Yau Ma Tei anchorage
YUENFAT	Yuen Fat wharf No.2 berth

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MFT	Macau ferry terminal
MOBIL	Mobil oil terminal main berth
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OTNO	Ocean Terminal north berth outer-foul
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YUENFAT	Yuen Fat wharf No.2 berth

Chapter: 8 **BERTH /WHARF/TERMINAL INFORMATION**

BERTH	Draft(m)	LOA(m)	Direction	Length	Telephone No.
CCEMENT	14.0	240	112/292	270	2440 5111 2440 5233
CFT	7.0	153	078/258	270	2738 2906
CLPTSK	16.8	280	134/314	545	2404 8402
CMKEN-N	9.5	156	070/250	170	2816 8398 9125 3298
CMKEN-S	7.0	120	070/250	140	2816 8398 9125 3298
CTX	12.6	235	162/342	90	2431 2428
CTX-5	3.2	80	035/215	80	2431 2428
CTX-6A	7.3	110	055/235	50	2431 2428
CTX-LPG	6.5	114	072/252	95	2431 2428
ESSO	14.63	274	098/278	255	2902 8273
ESSO-EL	5.5	107	098/278	30	2902 8273
EURO 1	9.0	165	020/200	240	2436 8222 9603 9692
EURO 2	9.5	200	020/200	280	2436 8233 9603 9692
EURO 3P	8.6	165	148/328	215	2436 8233 9603 9692
HKELECT (N)	14.6	262	170/350	290	2982 6270 2982 6274 9423 6670
HKELECT (S)	14.6	262	170/350	290	2982 6270 2982 6274 9423 6670
HUDSW dist. from f/d 80m as per HUD			008/188	250	2431 2645
KC 1-2	14.0	350	163/343	305	2115 3552
KC 3	14.0	350	163/343	305	2489 4745
KC 4	14.2	350	163/343	305	2619 7792
KC 5	14.0	350	073/253	457	2115 3552
KC 6	14.2	350	073/253	564	2619 7792
KC 7	15.0	350	073/253	564	2619 7792
KC 8	15.0	350	163/343	380	2619 7792
KC 9	15.0	350	163/343	450	2619 7792
KC 10	15.0	367	073/253	700	2619 7792
KC 11	15.0	367	073/253	338	2991 8022
KC 12	15.0	367	073/253	338	2991 8022
KC 13	15.0	350	073/253	338	2276 8137 2276 8138
KC 14	15.0	350	073/253	338	2276 8137 2276 8138
KC 15	15.0	352	163/343	350	3153 3021
KC 16	15.0	352	163/343	350	3153 3021
KC 17-18	15.0	352	163/343	350	2920 2616 2920 2645
KC 19	15.0	352	163/343	200	2920 2616 2920 2645
KC 20	15.0	310	042/222	340	2920 2616 2920 2645
LOP	8.0	122	089/269	125	2618 0192 9369 2741
MFT	5.0	120	104/284	220	2547 4039
MOBIL	14.6	250	089/269	267	2902 8133
MOBIL-E	7.5	107	089/269	41	2902 8133
OTN	8.5	270	078/258	340	2118 8951
OTS	10.67	290	078/258	381	2118 8951
PAFF	15	280	135/315	505	2212 5720 2212 5721
RTT-1	8.5	175	116/296	200	2122 7155 9728 6230
RTT-2	8.5	150	026/206	250	2122 7155 9728 6230
SHACHAU	7.5	120	163/343	152	2613 9127 2988 6161
SHELL	14.5	245	150/330	226	2432 8704
SHELL - 1E	6.5	100	008/188	80	2432 8704
SHELL - 2E	5.5	90	008/188	75	2432 8704
SHELL-LPG	8.0	135	150/330	118	2432 8704
SINO-A	14.0	250	086/266	280	2431 3090
SINO-B	7.5	120	086/266	129	2431 3090
SINO-C	6.5	90	086/266	115	2431 3090
SINO-CW	5.0	65	172/352	70	2558 8341
SINO-3	7.5	120	124/304	>150	2431 3090
SWSTL	11.5	200	125/305	215	2618 8761
TPGAS	11.0	228	120/300	300	2666 2106 9092 1684
TSK-MHB	8.0	120	038/218	140	2404 8402
YUENFAT	6.7	153	040/220	171	

Berthing Guidelines

Item 2
Pending

BERTH	Draft(m)	LOA(m)	Direction	Length	Telephone No.
CCEMENT	14.0	240	112/292	270	2440 5111 2440 5233
CFT	7.0	153	078/258	270	2738 2906
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Chapter: 12 **BERTHING GUIDELINES**

** INDEX **

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CFT	China ferry terminal
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CLPTSK	China light power station (TSK)
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CMKEN-S	China Merchant Kennedy Town south berth
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CTX-5	Caltex T/Y No. 5 berth
CTX-6A	Caltex T/Y No. 6A berth
CTX-LPG	Caltex T/Y LPG berth
ESSO	Esso oil terminal main berth
ESSO-EL	Esso oil terminal electric power wharf
EURO1,2, 3P	Euro-Asia berth 1,2 & 3P
HKELECT(N)	Lamma power station north wharf
HKELECT(S)	Lamma power station south wharf
JBDGA	Junk Bay DG anchorage
KC1,2,3,5	Kwai Chung berth 1, 2, 3 & 5
KC4	Kwai Chung berth 4
KC6	Kwai Chung berth 6
KC7	Kwai Chung berth 7
KC6/O-F	Kwai Chung berth 6 outer-foul
KC7/O-F	Kwai Chung berth 7 outer-foul
KC8, 9	Kwai Chung berth 8& 9
KC10-12	Kwai Chung berth 10-12
KC13-14	Kwai Chung berth 13-14
KC15	Kwai Chung berth 15
KC16-19	Kwai Chung berth 16-19
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TOW-BERTH	Ship under tow to/from berth
TPGAS	Tolo harbour Town Gas wharf
TSK-MHB	Tap Shek Kok Material Handling Berth
TYD	Floating docks west of T/Y Island
URMPS / URMA	Transit Mawan – Bulker & Tanker (All vessels other than passenger & container ship)
URMPS-C / URMA-C	Transit Mawan – Passenger & Container ship
WA-1	Western anchorage No.1
WA-2	Western anchorage No.2
WA-3	Western anchorage No.3
WQA	Western quarantine anchorage
YMTA	Yau Ma Tei anchorage
YUENFAT	Yuen Fat wharf No.2 berth

Location: CHT **Cruise Ship Transiting Central Harbour**

010 **East Bound** LOA: Max 270m
Draft: Max. 9.0m (min 10% UKC)
Time: 24 Hrs.
Tugs: 1 Escort from Berth/Anchorage to Hung Hom.
Remarks:

020 **East Bound** LOA: Max 290m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N LW-2 to HW
Tugs: 2 Escort from Berth/Anchorage to Hung Hom
Remarks: 2 pilots.
1 patrol boat to clear the passage to Hung Hom.

030 **East Bound** LOA: Max 345m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N LW-2 to HW
Tugs: 2 Escort tugs (1 from Berth/Anchorage to Hung Hom and 1 from Berth/Anchorage to TCS4)
Remarks: 2 pilots.
Removal of N1 & N2 buoys.
1 patrol boat to clear the passage to Hung Hom.

General Remarks:

1. This BGL is intended for CRUISE SHIP transiting Central Harbour from Kwai Chung Terminals or anchorages in western harbour. For berthing/unberthing requirements please refer to separate BGL of the related terminal.
2. The operation of this BGL shall be postponed when:
   (a) Visibility is less than 1 mile
   (b) Wind force at the harbour area is greater than 21 knots.
3. For Cruise Ship of LOA >270m transiting Central Harbour GMB B26 should be vacant.
4. Subject to VTC prior approval & traffic condition.
5. If deemed necessary, the pilot may deviate the vessel from the stipulated traffic route or general flow, for the purpose of safe navigation and maintaining adequate UKC. Pilot must keep VTC closely informed of his intention.

ON TRIAL

Location: CHT **Cruise Ship Transiting Central Harbour**

010 **East Bound** LOA: Max 230m
Draft: Max. 9.0m (min 10% UKC)
Time: 24 Hrs.
Tugs:
Remarks:

011 **West Bound** LOA: Max 230m
Draft: Max. 9.0m (min 10% UKC)
Time: 24 Hrs.
Tugs:
Remarks:

020 **East Bound** LOA: Max 270m
Draft: Max. 9.0m (min 10% UKC)
Time: 24 Hrs.
Tugs: 1 escort
Remarks:

021 **West Bound** LOA: Max 270m
Draft: Max. 9.0m (min 10% UKC)
Time: 24 Hrs.
Tugs: 1 escort
Remarks:

030 **East Bound** LOA: Max 290m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N LW-2 to HW
Tugs: 2 escort
Remarks: 2 pilots.
1 patrol boat to clear the passage.

031 **West Bound** LOA: Max 290m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N HW+1 to LW+1
Tugs: 2 escort
Remarks: 2 pilots.
1 patrol boat to clear the passage.

040 **East Bound** LOA: Max 345m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N LW-2 to HW
Tugs: 2 escort
Remarks: 2 pilots.
Removal of N1 & N2 buoys.
1 patrol boat to clear the passage.

041 **West Bound** LOA: Max 345m
Draft: Max. 10.0m (min 10% UKC)
Time: D&N HW+1 to LW+1
Tugs: 2 escort
Remarks: 2 pilots.
Removal of N1 & N2 buoys.
1 patrol boat to clear the passage.

General Remarks:

1. This BGL is intended for CRUISE SHIP transiting Central Harbour via Northern Fairway and Central Fairway. For berthing/unberthing requirements please refer to separate BGL of the related terminal.
2. The operation of this BGL shall be postponed when:
   (a) Visibility is less than 1 mile.
   (b) Wind force in the harbour area is greater than 21 knots, and/or strong monsoon signal is hoisted, and/or typhoon signal No.3 is hoisted whichever is applicable.
3. Subject to VTC prior approval & traffic condition.
4. Unless otherwise specified, escort tug/tugs for Central Harbour Transit is/are required for the waters:
   (a) East Bound: From GI to LYM.
   (b) West Bound: From TCS4 to GI.
5. For LOA>270m, one patrol boat is required to clear the passage between Kellett Buoy and Hung Hom.
6. VTC's prior consent should be sought if it is necessary for a piloted vessel to deviate from the designated traffic route or the general direction of the traffic flow for the purpose of safe navigation and/or maintaining an adequate UKC.

ON TRIAL

Location : KTCT-1

Kai Tak Cruise Terminal Berth 1
(Declared Depth: 12.0m at Turning Basin / 13.0m at Berth)

010	**Berthing**	LOA: Max 130m	
Draft:	Max. 8m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2		
Remarks:	.		

011	**Unberthing**	LOA: Max 130m	
Draft:	Max. 8m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2		
Remarks:			

020	**Berthing**	LOA: Max 230m	
Draft:	Max. 11m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2. If D>10m incl.1 TCS4 est.		
Remarks:			

021	**Unberthing**	LOA: Max 230m	
Draft:	Max. 11m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2. If D>10m incl.1 est.		
Remarks:			

030	**Berthing**	LOA: Max 270m	
Draft:	Max. 11m (min 10% UKC)		
Time:	Starboard side to: D&N HW to LW Port side to: D&N LW to HW		
Tugs:	3 incl. 1 TCS4 est.		
Remarks:			

031	**Unberthing**	LOA: Max 270m	
Draft:	Max. 11m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2 incl. 1 est.		
Remarks:			

040	**Berthing**	LOA: Max 365m	
Draft:	Max. 11m (min 10% UKC)		
Time:	Starboard side to: D&N HW to LW Port side to: D&N LW to HW		
Tugs:	3 incl. 1 TCS4 est.		
Remarks:	2 pilots.		

041	**Unberthing**	LOA: Max 365m	
Draft:	Max. 11m (min 10% UKC)		
Time:	24 hrs.		
Tugs:	2 incl. 1 est.		
Remarks:	2 pilots.		

General Remarks:

1. KTCT-1: Berth Length 450m and Berth Direction 134º / 314º.
2. For LOA > 270m, berthing/unberthing operations shall be postponed when wind force in the harbour area is greater than 21 knots, and/or strong monsoon signal is hoisted, and/or typhoon signal No.3 is hoisted whichever is applicable.
3. The BGL of Cruise Ship Transiting Central Harbour shall be applied for vessels crossing Central Harbour.
4. Prior approval from VTC is required for berthing starboard side to.