

LOCAL VESSELS ADVISORY COMMITTEE

Height Restriction Area in the vicinity of the Stonecutters Bridge

Purpose

The purpose of this paper is to seek members' views on the proposal to introduce legislation to provide for a height restriction area in the vicinity of the Stonecutters Bridge. This means that there will be restrictions on the height of vessels navigating within the vicinity of the Bridge.

Background

2. The Stonecutters Bridge is a 1.6 km long dual 3-lane high level cable stayed bridge, with a clear span of 1018 metres over the entrance to the Kwai Tsing Container Port Basin. It is a major section of Route 8 between Tsing Yi Island and Cheung Sha Wan.

3. In the detail design and construction study for the Bridge, a maximum air-draft allowance of 68.5 metres for the Stonecutters Bridge was proposed over the whole width of the navigation channel based on 100-year water level. The height limit of 68.5 metres was endorsed by the Working Group members at the Stonecutters Bridge Working Group meeting held on 20 December 2001. **Appendix A** illustrates the navigation clearance under the Bridge for a variety of water levels, and indicative air drafts of existing ships.

Present Situation

4. The installation of bridge segments is tentatively scheduled from August 2007 to August 2008. The Bridge will pose a physical limitation on the maximum air-draft of vessels that can safely pass underneath the Bridge.

Proposal

5. To ensure the safe passage of vessels navigating underneath the Stonecutters Bridge as well as to prevent damage to the Bridge, there is a need to establish a height restriction zone for vessels navigating in the vicinity of the Stonecutters Bridge, by amending existing regulations of the Shipping and Port Control Regulations, Chapter 313A and its associated Fifth Schedule, and existing sections of the Merchant Shipping (Local Vessels) (General) Regulation, Chapter 548F. The Marine Department proposes that no vessel, which has an air-draft exceeding 68.5 metres above sea level, shall enter or pass the Stonecutters Bridge area shown in **Appendix B**, except with the express permission of the Director of Marine. Any over-height vessels entering this area will be liable to an offence and subject to the same penalty i.e. a fine at level 5 (HK\$50,000) and to imprisonment for 6 months of the existing regulations for the protection of other bridges in Hong Kong waters.

Advice Sought

6. Members are invited to return their comments, if any, on the proposal to the Secretary on or before 23 March 2007.

Planning, Development and Port Security Branch
Planning and Development Section
Marine Department

March 2007

STONECUTTERS BRIDGE

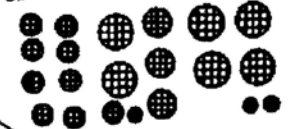
Table	LEVEL/ ALLOWANCE (m)	MAXIMUM VESSEL AIRDRAFT ALLOWANCE (STILL WATER LEVEL TO TOP OF VESSEL STRUCTURE) AT VARIOUS WATER LEVELS			
		EXTREME (100 YEAR WATER LEVEL) A-B	EXTREME (20 YEAR WATER LEVEL) A-C	MEAN WATER LEVEL A-D	CHART DATUM A-E
900m NAVIGATION SPAN					
LEVEL (mPD)	73.5	68.5*	68.8	70.75	72.1
WAVE MOTION ALLOWANCE	0.35				
SAFETY MARGIN ALLOWANCE	1.2				
A – MAXIMUM NAVIGATION ENVELOPE (mPD)	71.95				
B – EXTREME (100 YEAR WATER LEVEL, mPD)	3.45				
C – EXTREME (20 YEAR WATER LEVEL, mPD)	3.15				
D – MEAN WATER LEVEL (mPD)	1.20				
E – CHART DATUM (mPD)	-0.148				

Remarks

- Largest Containership at sea (Emma Maresk) 64.5 metres
- Queen Mary 2 62.0 metres



專用石滷
CRC DM



維持深度15.0米
Maintained depth 15.0m

擬議高度限制區
Proposed Height Restricted Area



Kwai

葵青貨櫃碼頭
Tungshue Quay

橋塔
Tower

廢船地
Foul

昂船洲大橋
STONECUTTERS BRIDGE

SS(Traffic)
橋塔
Tower

Appendix B
附錄 B

12

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15₅

16₂

14₄

15₅

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10₅

9₂

8₂

FX 27W.10s
北橋 4
Northern 4

NORTHERN FAI

葵青貨櫃碼頭
Stonecutters Island Public Cargo Working Area

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