消 防 處 牌 照 及 審 批 總 區

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FIRE SERVICES DEPARTMENT LICENSING AND CERTIFICATION COMMAND

Fire Services Headquarters Building, No. 1 Hong Chong Road, 5/F., Tsim Sha Tsui East, Kowloon, Hong Kong

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23 January 2008

To: Recipients of FSD Circular Letter

Dear Sir/Madam,

FSD Circular Letter No. 1/2008 Inspection Checklist for Street Fire Hydrant System

This Circular Letter announces the formal adoption of the Checklist as attached for compliance inspection on the street fire hydrant system.

The technical requirements on the street fire hydrant system are detailed in Section 5.25 of the Code of Practice for Minimum Fire Service Installations and Equipment while the acceptance criteria of the testing requirements are specified in Section 2.25 of the Code of Practice for Inspection, Testing and Maintenance of Installations and Equipment.

In the past meetings of the Fire Safety Standard Advisory Group (FSSAG), representatives of the trade agreed to standardize the procedures and method for testing the street fire hydrant system with a view to enhancing the efficiency of the compliance inspection. In this connection, a comprehensive review of the current practice relating to the subject was carried out. Consequently, a Checklist for compliance inspection of the street fire hydrant system is devised with the endorsement by the FSSAG for formal use. The FSSAG firmly believed that the Checklist would facilitate the trade in the compliance inspection.

The Checklist form could be downloaded from the FSD website (http://www.hkfsd.gov.hk/home/eng/circular.html) for general use with immediate effect.

Should you need further clarification on this matter, please feel free to contact our officer at 2733 7563 or 2733 7549.

Yours faithfully,

(LAI Man-hin)
for Director of Fire Services

Encl.

Checklist for Pedestal Street Fire Hydrant System

I.		FEREN										
	Pro		. Ref									
	Address			Location								
	••••	•••••		••••••	••••	•••	••••			••••	••••	
II.	TYPE OF SYSTEM				Yes		No		N/A		Remarks	
	2.1	Suppli	ed Directly from Town Main		[]	[]	[]		
	2.2	Suppli	ed from Gravity Tank		[]	[]	[]		
	2.3	Suppli	ed from Pumps and Tank		[]	[]	[]		
	2.4	Suppli	ed from Sea Water Pumps		[]	[]	[]		
III.	LAYO	OUT CI	HECKING AGAINST APPROVED BUILDING A	PLANS								
	F.S.I	O. Ref. (On Approved Building Plans		Tally with drawings?							
					Ye		WIU No		N/	_	Remarks	
	3.1	Quant	ity of street hydrant		ſ]	[[]	Kemarks	
	3.2		on of street hydrant(s)		[]	Į.		[]		
	3.3		on of pump room / enclosure		[ן	[[]		
	3.4		on of tank		[ر ا	[[]		
	3.5		rapacity		[]	[-	[]		
IV.			SPECTION									
	4.1	GENE		. 1	r	,	r	,	r	,		
		4.1.1	Hydrant body is painted in red for fresh water	•]	L]	[]		
			in yellow for sea water system (with white bar	nd when fed								
		412	directly from government trunk main).	1.4:.	г	1	г	1	г	1		
		4.1.2	For hydrant not in service, cap for 100mm out	iet is	[]	L]	[]		
		112	painted in blue.		г	1	г	1	г	1		
		4.1.3	Each hydrant is equipped with a control valve		[r]	-]	[
		4.1.4	Each hydrant is equipped with an isolating val		[J	[]	[]		
			(applicable to system fed directly/indirectly fr	OIII								
		115	government main). Spindle of underground bydrent velve is within	n 250mm	г	1	ſ	1	г	1		
		4.1.5	Spindle of underground hydrant valve is within	II 230IIIM	L]	L]	[]		
		116	to 500mm below valve pit cover.		г	1	r	1	r	1		
		4.1.6	Size of underground control valve pit cover is	•	L	J	[]	[]		
			than 300mm x 300mm with "FH' marking eng	graved on								
			the surface.									
			(Remarks: Isolating valve pit cover shall confe	orm to								
			W/CI) standard)									

			Y	es		No	N/	A	Remarks
	4.1.7	The valve pit of control valve is located between 1.5m	[]	[]	[]	
		to 3m from the street hydrant.							
	4.1.8	The valve pit of control valve is located outside the	[]	[]	[]	
		designated emergency vehicular access.							
	4.1.9	V-shaped arrow head (100mm high and 50mm wide)	[]	[]	[]	
		pointing toward the control valve is painted on hydrant							
		top (yellow arrow for red hydrant and red arrow for							
		yellow hydrant).							
	4.1.10	The hydrant number with size not less than 75mm is	[]	[]	[]	
		painted at the hydrant (in yellow for red hydrant and in							
		red for yellow hydrant).							
	4.1.11	There is no obstruction within 1.5m in front and on two	[]	[]	[]	
		sides of the hydrant(s).							
	4.1.12	Tank refilling system is in efficient working order	[]	[]	[]	
		(applicable to system with tank).							
	4.1.13	The number assigned for the hydrant shall be painted on	[]	[]	[]	
		the body facing the roadway with size not less than							
		75 mm (in yellow for red hydrant and in red for yellow							
		hydrant).							
4.2	PUMP	(if provided)							
	4.2.1		ſ	1	ſ	1	ſ	1	
	4.2.2	Mode of power for driving the pump is:	L	J	L	J	L	J	
	4.2.2.1								
	4.2.2.2	• -	ſ	1	Г	1	ſ	1	
	4.2.2.3		ſ	ן	ſ	1	ſ	ı I	
	4.2.2.4		ſ	J	ſ	1	ſ]	
	1.2.2.1	are prominently displayed in the pump	L	J	L	J	L	J	
		room/enclosure.							
	4.2.3	No automatic means of stopping the pump other than	ſ	1	ſ	1	Г	1	
	1.2.3	by switching off at the pump room/enclosure.	L	,	L	J	L	J	
	4.2.4	For duplicate electric motor driven pump arrangement,	[1	ſ	1	ſ	1	
		the pump starters are wired through a selector switch	L	1	L	ı	L	J	-
		for duty and standby pump selection.							
	4.2.5	The motor/engine for the pump is rated to give	ſ	1	[1	ſ	1	
	2.0	20% more power in addition to the hydraulic power	L	J	L		L	J	
		required for the rated flow of the system.							
	4.2.6	Pumps are permanently primed.	Γ	1	Г	1	Г	1	
	2.0	z amps are permanently primes.	L	J	L	J	L	J	

			Yes	S	N	0	N/	A	Remarks
	4.2.7	Non-return valve(s) are provided to	[]	[]	[]	
		prevent water backflow into the water							
		tank if provided.							
	4.2.8	All pumps are housed in suitable room/enclosure	[]	[]	[]	
		designed solely for accommodating pumps or							
		equipment for fire service installations.							
	4.2.9	Pump room/enclosure are laid clear of any	[]	[]	[]	
		exit or normal communication routes							
		through the premises.							
	4.2.10	Pump room/enclosure is clearly marked in English	[]	[]	[]	
		and Chinese characters.							
	4.2.11	Pump room/enclosure is suitably locked to prevent	[]	[]	[]	
		unauthorised tampering.							
	4.3	SUPPLY TANK (if provided)							
	4.3.1	Water tank and its capacity are clearly marked in	[]	[]	[]	
		English and Chinese characters.							
	4.3.2	Fire Service Completion Advice issued.	[]	[]	[]	
	4.3.3	For system where the tank bottom is more than 20m	[]	[]	[]	
		above the outlet coupling of the lowest street hydrant,							
		a bypass pipe (of the same size as the pump suction							
		pipe) is provided at the pump suction and discharge pipe.							
		(Please see figure "C" in Annex I)							
v. SY	YSTEM TE	SSTING							
		to system with pumps)							
	5.1	The pump starts automatically upon opening of	[1	[1	[]	
		any hydrant outlet.		•		•		•	
	5.2	Other than the jockey pump, the pump can only be	[1	[]	ſ]	
	0.2	stopped manually at the pump room, once started.	L	,	L	J	L	J	
	5.3	The standby pump is energized within 15 seconds	ſ	1	[]	ſ]	
	3.3	upon failure of the duty pump.	L	J	L	J	L	J	
	5.4	For diesel engine driven pump, the operation of the	ſ	1	ſ]	ſ	1	
	5.1	pump starting pressure switch is not affected by mains	L	J	L	J	L	J	
		power failure.							
	5.5	The status of each pump comprising "Power Supply	ſ	1	ſ	1	ſ	1	
	٥.٥	On", "Pump Running" and "Pump Failed" are	L	1	L	J	L	1	
		monitored and displayed at the pump room.							
	5.6		г	1	r	1	г	1	
	5.0	The pump status signals are repeated to:	L r]	L	J	L]	
		Fire control centre	l r]	or				
		A status panel at the building main entrance	L	- 1	or				

		•	Yes	S	N	lo	N/.	A	Remarks
5.7	Tank refilling system is in efficient work (applicable to system with tank).	rking order	[]	[]	[]	
VI. <i>FIELD MI</i>	EASUREMENTS								
6.1	Flow rate and pressure tested in accord	ance	[]	[]	[]	
	with Figure Noin Anne	ex II.							
6.2	When discharging at two 65mm outlets	s simultaneously:							
	Flow at one 65mm outlet (L/min) :		• • •						
	Running Pressure (kPa) :								
VII. GENERA	AL COMMENTS & REMARKS								
Test witnessed	by:								
	(Signature)			•••			••••		(Signature)
	(Name in block letters)					(Nam	e in	block letters)
F.S.I. Contracto	or's Representative	F.S.D. Inspection	ng	Off	icer	•			
Date		Date							

ANNEX I

NOTES:

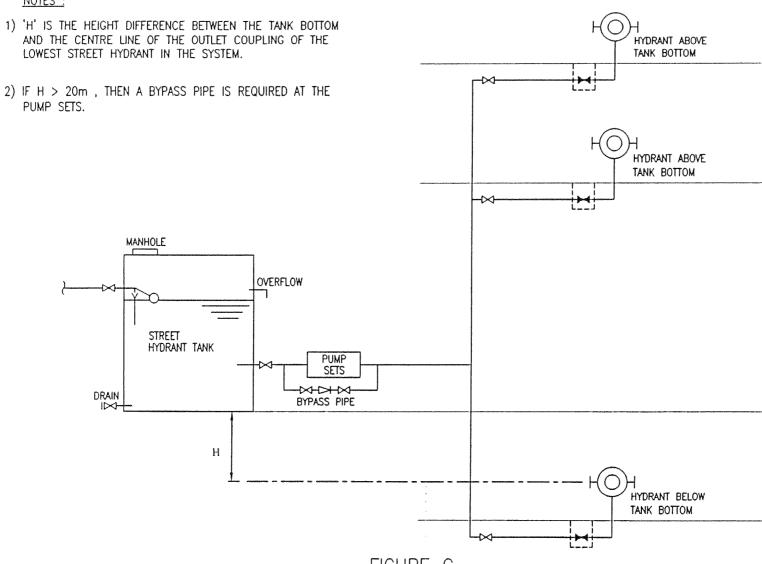


FIGURE C (SCALE : N.T.S.)

ANNEX II-FIGURES FOR EQUIPMENT ARRANGEMENT FOR TESTING OF PEDESTAL STREET HYDRANT (2 OPTIONS TO SUIT SITE CONDITIONS)

