HI

From: LCT
Sent: Wednesday, November 29, 2006 9:57 AM
To: CCG; LSF; CLM; CHL; TWC; CKH; LCH; AWL; ST; YYF; KBK; SC
Cc: HI
Subject: Water Supply Requirements for Wet Riser System

Our Ref: OM-LA/032

All,

Please take note.



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Regards,

Andrew

SINGAPORE CIVIL DEFENCE FORCE
FIRE SAFETY & SHELTER DEPARTMENT

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91 Ubi Ave 4 Singapore 408827 Fax no. 68481488
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Please quote our ref. no in all future correspondence

CD/FSSD/12/01/03/04

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18 Nov 2003

Registrar, Board of Architects (BOA)
Registrar, Professional Engineers Board (PEB)
President, Singapore Institute of Architects (SIA)
President, Institution of Engineers, Singapore (IES)
President, Association of Consulting Engineers (ACES)

Dear Sirs

WATER SUPPLY REQUIREMENTS FOR WET RISER SYSTEM

The Fire Safety and Shelter Department (FSSD) had recently reviewed the water supply requirements for wet riser systems. The main purpose of this review is to determine the practicable water flow rate and the maximum water storage capacity required for wet riser systems comprising multiple stacks of rising mains. The study revealed that the current pumping and storage capacities as stipulated in SSCP 29 can be reduced, basing on the fact that buildings having wet risers are likely to be sprinkler protected and the number of fire hose jets likely to be deployed at the fire site. The reduction in water supply requirements would result in less space requirements and thus impose smaller loads on the building structure.

2 Henceforth, Engineers may adopt the following water supply requirements for the design of the wet riser system :

No. of stacks	Water flow rate for Non-residential buildings	Water flow rate for Residential buildings
1	38 l/s	27 l/s
2	57 l/s	40.5 l/s
3	76 l/s	54 l/s
More than 3	95 l/s	67.5 l/s

The minimum water storage capacity shall be capable of supplying water at the above said flow rate for the period as specified in SSCP 29.

3 The contents of this circular serve as an alternative design approach for the installation of wet riser systems in new or existing buildings. The guidelines shall take immediate effect.

4 We would appreciate it if you could convey the contents of this circular to members of your organisation. You may reproduce the pages of the guidelines for dissemination to your members. This circular is also available in our website : http://www.scdf.gov.sg.

5 For any inquiry or clarification, please contact Mr Vijayaratnam at Tel 68481448.

Yours faithfully,

Teo Lim Teck
Secretary
FSSD Standing Committee
for Commissioner
Singapore Civil Defence Force

cc

All members of FSSD Standing Committee
President, REDAS
President, IFE
President, SISV
CEO, BCA
CEO, URA
CEO, HDB
CEO, PSA
CEO, JTC
CE, LTA – (Attn : Mr. Mohinder Singh)
CE, PSB – (Attn : Ms Tan Chiew Wan/Mr. Lau Keong Ong)
GM, SPRING Singapore – (Attn : Mr. Teo Nam Kuan)

bc

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