

SINGAPORE CIVIL DEFENCE FORCE FIRE SAFETY & SHELTER BUREAU



Civil Defence Complex 91 Ubi Ave 4 Singapore 408827 Fax: 8481488
Website: <http://www.scdf.gov.sg>

Please quote our ref. no. in all future correspondences

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15 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 SPRINKLER AND WET RISER SYSTEMS IN HIGHRISE BUILDINGS

The Fire Safety and Shelter Department (FSSD) had recently undertaken a study to review the water supply requirements for fire fighting systems in highrise buildings. The main purpose of this review is to facilitate the installation of combined storage and pumping facilities for fire fighting systems in highrise buildings which would result in less space requirements, smaller loads imposed on the building structure and less cost in maintaining the system. The outcome of the study reveals that the wet riser storage tank is able to cater to the effective operation of both sprinkler and wet riser systems, taking into consideration the response time of SCDF's fire fighting crew to fire incidents and standard operations procedures at fire site.

2 Engineers in designing combined sprinkler and wet riser systems shall conform to the provisions stipulated in SSCP 52 and SSCP 29, except that there is no need to cater for water storage for the sprinkler system's demand. Pump sets shall be designed for the simultaneous operation of both the sprinkler and wet riser systems. The combined system's sprinkler risers and wet riser stacks shall not be interconnected by sprinkler system piping or a single riser serve both systems.

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

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4 We would appreciate it if you could convey the contents of this letter 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
FSSB Standing Committee
for Commissioner
Singapore Civil Defence Force

cc

All members of FSSB Standing Committee
President, REDAS
President, IFE
President, SISV
CEO, BCA
CEO, HDB
CEO, PSA
CEO, JTC
CE, LTA – (Attn : Mr. Mohinder Singh)
CE, PSB – (Attn : Ms Tan Chiew Wan/Mr. Lau Keong Ong)