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Our Ref: OM-DE/072

17 September 1997

MEMORANDUM

To : ALL ENGINEERING STAFF

From : Andrew Loh

Subject : **DESIGN CONTROL**
FIRE CODE 1997

Please be informed that the Fire Code 1997 will be enforced for all submission after 1 January 1998.

A copy of the FSB Standing Committee Meeting minute is attached for your information.

ANDREW LOH

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encl.

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ASSOCIATION OF CONSULTING ENGINEERS SINGAPORE

MEMBER OF THE INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS (FIDIC)

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ALPHA
- 9 SEP 1997
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TO ALL MEMBERS (Via Fax)

9 September 1997

RE : FSB STANDING COMMITTEE MEETING ON 8 SEPTEMBER 1997 - POINTS RAISED

1. FSB Change of Use Submission & Minor Internal Partition Works

Brief and flow chart enclosed. Members are requested to give their feedback to ACES within 2 weeks ie. by 22 September 1997.

2. RI Board

It is announced that moves are being made to amend the FIRE SAFETY ACT. This will most probably happen in early 1998. NO ACTION YET. WAIT for further details.

3. SIA has a very active RIs Subcommittee which involves basically Architectural RIs. However, some Civil/Structural PEs are also Architectural RIs.

4. FSB/SCDF is giving a two sessions seminar on 26 September 1997 and the Fire Code 1997 costing S$31.00 nett will be made available during the Seminar. The Fire Code 1997 will be enforced for all new submissions after 1 January 1998.

5. One Interesting New Topic - External Closed Sprinkler Outside External Glass Panel

Purpose : To prevent vertical external fire spread through windows/glazed walls of sprinklered-protected buildings. The closed sprinkler is to be installed on the external of the building, say at intervals of maximum 3m apart (NOT on the inside of the building).

The possible scenerio : One storey is on fire, and the external glass is broken on this particular storey. The heat and smoke will rise externally upwards. The external closed sprinklers will open automatically on reaching a certain temperature, and will provide a cooling effect on the glass.

On the engineering side, there are 3 alternatives mentioned:-

f) ALTERNATIVE 1 : WINDOW SPRINKLERS : INDEPENDENT

PUB water incoming, independent water tank, independent window sprinkler tank, etc. The design will be halved (1/2) the capacity as SS CP 52.

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PRESIDENT : KOG YUE CHOONG, BEng(Hons), MSc, PhD, PEng, MIES, MConsES, CEng, AI StructE, MSI Arb, MSEAGS.
VICE-PRESIDENT : RODNEY RAE OEHLERS, BEng(Mech), FIES, MIEM, MIPENZ, PEng(M), PEng(S), MConsES.
HON. SECRETARY : THAM POH KUAN, BSc(Hons), MSc, PEng, MIES, CEng, AI StructE, MConsES.
HON. TREASURER : GEOFFREY A PIGGOTT, MEng, Sc, FIEAust, MIWEM, PEng(S), PEng(M), MConsES.
IMM. PAST PRES. : GOH KNG YAN, BSc(Hons), CEng, PEng, MI MECH E, MIES, MIEM, MConsES.

5. cont'd

ii) ALTERNATIVE 2 : EXTENDED LOOP

Have a new monitored valve or new sprinkler control valve to serve the window sprinklers. In this case, the sprinkler design will be 1.5 times as per SS C 52.

iii) ALTERNTIVE 3 : The window sprinklers are a direct extension of the normal room's sprinkler system. The design will be the same as per SS CP 52 : 1990.

There were 3 engineers present in the meeting : 1 each, representing ACES, IES and I Fire E, and as far as the engineering aspects are concerned, this can be designed for. ALTERNATIVE 3 will be the most economical.

This new topic, if implemented, will be for NEW BUILDINGS only.

SIA was asked to look into various walls' designs and ways to accommodate the closed window sprinklers.

Members are invited to send in their views as soon as possible as the topic is subject to further discussion.

MR. WILLIAM TAN BOON NGEE
ACES REPRESENTATIVE

Encl (4 pages)