# Fire Safety Standard Advisory Group (FSSAG)

Matters Discussed in the 49<sup>th</sup> FSSAG Meeting held on 3 October 2016

## 1. Review of PPA 104 (Issued under cover of FSD Circular Letter No. 1/2006)

The draft PPA/104 and draft PPA/104(A) [5th Revision] had been revised to adopt the new BS 5266-1:2016 and BS EN 1838:2013 standards and issued to members of the Sub-Working Group (SWG) for comment.

## 2. Review on fire resisting cable requirements for fire service installations

The draft Fire Resisting Cable Requirements for Fire Service Installations had been revised to incorporate the requirements of the updated fire resisting cable standards and issued to members of the SWG for comment. Members had been requested to provide comments for discussion in the next SWG meeting.

# **3.** Enhancement on Application procedure for Approval/Acceptance of Fire Service Installations and Equipment (FSI) and other Products

Preparatory work for the enhancement programme had come to the final stage. The revised Fire Protection Notice No.15 was expected to be launched by end of 2016, and the enhancement would then be announced formally through Circular Letter.

## 4. Review of the Requirements for Emergency Lighting

The 4<sup>th</sup> SWG meeting was held on 22 September 2016. It was agreed that BS 5266-1: 2016 which had been recently published should be reviewed.

## 5. Review of Clean Fire Extinguishing Agents including Novec 1230

The draft circular letter had been circulated to FSSAG members for comment. The following table showing members' comments and FSD's response was for discussion in the meeting:

Item	Members' comments	FSD's responses		
(a)	Para. 8 quoted that "Besides, other	In this CL, all commonly used and		
	clean agents recognized in NFPA	previously accepted clean agents		
	Standard 2001 not containing any	have been mentioned in Para. 8.		
	"Scheduled Substances" under	For other new agents, applicants		
	Ozone Layer Protection	can follow the current procedures to obtain FSD's acceptance on their		
	Ordinance (Cap. 403) may also be			
	accepted by this Department."	applications.		
	Please consider to mention the			
	specific procedure in the same			
	Circular Letter on how to seek for			
	the acceptance of FSD on other			
	clean agents.			
(b)	Para. 8.4 mentioned that "Apart	For the sake of clarity, this		
	from new buildings, layout plans	paragraph should be revised as		
	for both total flooding systems	follows:		
	and fixed sprayer units for			
	existing buildings are to be	"Apart from new buildings, layout		
	submitted to this Department for	plans for total flooding system or		
	consideration prior to	fixed sprayer units (including both		
	installation." Would such a	new installations and alteration &		
	requirement apply only to those	addition works) for existing		
	new installations or change of	buildings are to be submitted to this		
	clean agents in existing	Department for consideration prior		
	buildings? If this is the case,	to installation."		
	please consider to revise the			
	sentence to make the meaning			
	clear and specific.			
(c)	It is noted that the chemical	In order to enhance readability,		
	names, agent designation and	common names/trade names will		
	trade names of the clean agents	also be added with bracket behind		
	are not used consistently	the agent designations. For		
	throughout the draft Circular	example:		
	Letter and Appendices, causing	HFC-227ea (*FM200)		
	confusion. For example, the terms	FK-5-1-12 (*Novec 1230)		
	Dodecafluoro-2-methylpentan-3-	IG-541 (*Inergen)		

	one and Novec 1230 are used in	PFB (*CEA-410)		
	para. 8 while another name of the			
	same agent, Fluoroketone, is	Besides, since symbols for fire		
	adopted in Appendix E. Similarly,	extinguishing agents which have		
	HFC-23 is mentioned in para. 8,	been adopted for many years, it is		
	while in para. 8.5 and Appendix	recommended that they should not		
	E, the term $CHF_3$ is quoted. Also,	be amended so as to avoid		
	in Appendix D, HCFC (PFB) is	confusion.		
	used on the graphic on the left			
	hand side while the term			
	CEA-410 is mentioned in those			
	words under "CAUTION" on the			
	right hand side of the same			
	diagram. Such inconsistency in			
	the terms used may cause			
	confusion, particularly under			
	emergency situation. Please			
	consider to tidy up such terms			
	used in particular on those			
	diagrams.			
(d)	Please consider to improve the	The legibility will be improved.		
	clarity of all diagrams so that all			
	words, particularly those small			
	words, are legible.			

With reference to the contents of the above table, members made a thorough discussion on the subject matter. It was concluded that FSD would revise the draft circular letter according to the discussion made in the meeting and submit it to the FSD Senior Management for deliberation.

# Implementation of BS 5839: 2013 "Fire Detection and Fire Alarm Systems for Buildings – Part 1: Code of Practice for Design, Installation, Commissioning and Maintenance of Systems in Non-domestic Premises"

The 2nd SWG meeting was held on 12 July 2016. Members of the SWG were reviewing the draft proposal for implementation of BS 5839-1:2013.

# 7. Provision of securing devices to prevent the Gate Valve of FS tank from being tampered or inadvertently turned off

The draft FSD Circular Letter would be finalized for issue.

## 8. Emergency Power supply for Lift Homing

This item had been thoroughly discussed in the last meeting. As no further discussion was required for the issue, the meeting agreed to delete this item in the next meeting.

# 9. Automatic Actuation Devices for Lifts Not Discharging to Protected Means of Escape (Heading in 46<sup>th</sup> FSSAG Meeting : FSI Requirements for Buildings with Lifts Serving Direct to Occupancy)

The reply for the subject proposal had been received from the EMSD after consultation with the lift trade. In gist, there was no objection to overriding all car calls to prevent lift passengers unknowingly from disembarking on the scene of fire on upper floor and at the same time initiating the home landing operation. However, for fire signal at the home landing (i.e. operation sequence (c) in the draft paper), the trade opined that there would be difficulties to redirect the lift to non-designated floors. Furthermore, there was no lift manufacturer that could provide such function with existing products.

As the original intent of the subject proposal was to avoid the potential hazard of those lifts NOT opening to a lobby, the scenario of redirecting the lift car away from home landing should be regarded as an added safety feature. Noting that the home landing floor (usually ground floor) being a location leading directly to a place of safety and the technical infeasibility, the additional proposed feature to redirect away from home landing would not be further pursued.

FSD would revise the proposal and circulate to the EMSD for further comment. Members would be informed of the progress in due course.

# 10. Fire Alarm Signal and Sounding for AFA System and Sprinkler System for Residential Flats with Open Kitchen

The general arrangement of fire alarms for domestic buildings with open kitchen

Scenario		Sounding of	Building fire	Fire alarm
		the sounder of	alarm	transmission
		that		via CFATS
		sounder-based		
		detector in the		
		open kitchen		
1	Actuation of sounder-base	YES	NO	NO
	detector in an open kitchen			
	unit			
2	Actuation of detector in	NO	YES	YES
	common areas			
3	Actuation of sprinkler in an	NO	YES	YES
	open kitchen unit			
4	Actuation of sprinkler in	NO	YES	YES
	common areas			

units under Clause C13.4 of the CoP for Fire Safety in Buildings 2011 would be described in the following table:

Remark: Fire signals from sounder-base detectors should be connected to the fire alarm panel to draw the caretaker's attention.

Members were also reminded that the arrangement above was based on Clause C13.4 of the BD Fire Safety Code 2011. Members should note that when carrying out FSI maintenance for previous projects or for those projects not in compliance with Clause C13.4, the above alarm sounding arrangements might not be applicable.

### 11. Automatic Sprinkler System Design for Deep Basement

This item had been thoroughly discussed in the last meeting. As no further discussion was required for the issue, the meeting agreed to delete this item in the next meeting.

### 12. BS EN 12845 (2015 version)

This item had been thoroughly discussed in the last meeting. As no further discussion was required for the issue, the meeting agreed to delete this item in the next meeting. In the meantime, members might propose specific items in relation to BS EN 12845 (2015 version) to FSD and if necessary, a new agenda in this

regard could be created.

### 13. Alarms and Monitoring of Sprinkler System – BS EN12845:2003

This item had been thoroughly discussed in the last meeting. As no further discussion was required for the issue, the meeting agreed to delete this item in the next meeting.

# 14. Calibration Requirements for Test Instruments used for Compliance Inspection of Fire Services Installations

This item had been thoroughly discussed in the last meeting. As no further discussion was required for the issue, the meeting agreed to delete this item in the next meeting.

### **15.** Operation Instruction Notice of Hose Reel

The issue was discussed in the meeting. It was concluded that regarding the provision of operation instruction notice of the hose reel, members should make reference to paragraph 5.14 (b) of the Code of Practice for Minimum Fire Service Installations and Equipment that either "BREAK GLASS OF THE FIRE ALARM CALL POINT" or "ACTUATE FIRE ALARM CALL POINT" should be used according to the actual conditions.

# 16. Flashing Requirement for Exit Sign and Directional Sign in Audio / Visual Advisory System (AVAS)

The issue was discussed in the meeting. It was concluded that the same design principle (i.e. either flashing type or maintained type with flashing light) should not be applied to directional signs incorporated in AVAS. Therefore, directional signs which were incorporated in AVAS should be of flashing type only. In addition, it was strongly recommended by FSD that, from fire safety point of view, maintained type exit signs with flashing light instead of flashing type exit signs should be used.

# 17. Actuation Temperature of Heat detector(s) under the Fire Safety Requirements for D.G. Store

As the issue involved some historical background information, FSD would take follow up action in this regard with a view to reporting the findings in the next FSSAG meeting.