

Fire Safety Standard Advisory Group (FSSAG)

Matters Discussed in the 60th FSSAG Meeting held on 24 September 2019

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

No further comment from FSSAG's member on revised PPA 104 and 104A (5th Revision) was received.

In view of the comments raised in the sub-working group of BS5266-1 for emergency lighting, the requirements as stated in the PPA104 (5th Revision) for voltage and hydrometer tests and monthly discharge test would be further reviewed.

2 *Enhancement on Application Procedure for Approval/Acceptance of Fire Service Installations and Equipment (FSI) and other Products*

Further amendments proposed by FSID and VD had been reviewed by I&R Section. The draft revised version of Fire Protection Notice No.15 and FSI application form would be circulated to FSSAG members for comments. [Post-meeting Notes : The revised Fire Protection Notice 15 was circulated to members for their final comment on 26 September 2019.]

3 *Review of the Requirements for Emergency Lighting*

An Ad-hoc meeting was conducted on 19.9.2019 to discuss the operation and maintenance requirements as stated in the BS5266-1 and FSI CoP as well as the PPA104 & 104A.

4 *Implementation of BS 5839: 2017 "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 10th sub-working group meeting was held on 16 September 2019. All proposed amendment items under list two had been reviewed with few critical items required further deliberation. The next meeting was scheduled on 29 October 2019.

5 *Review on LPC Sprinkler Rules 2015 incorporating BS EN 12845*

The 10th sub-working group meeting was held on 26 August 2019. Most comments on the first version of review result were discussed. The targeted date to accomplish this task was within year 2019 or first quarter of 2020. [Post-meeting Notes: The task of review on BS EN 12845 had been accomplished by the Sub-working Group successfully. The final version (most updated) of the review was circulated to all members on 12 December 2019 for perusal. It is expected the review will be endorsed in the coming FSSAG meeting if no further discussion is required.]

6 *Review and evaluation of Sprinkler Stop Valve Management System (SSSMVS) and Stop Valve Management System (SMVS)*

No objection in principle for the improvement proposal raised by FSICA. In addition, two FSD circular letters 4/2010 and 6/2016 were revisited. The mechanism for SSSVMS and SMVS were practically acceptable and therefore no further update was required.

7 *Alarm Signals and Display for Automatic Fixed Installation other than Water and Drencher System*

Members were invited to give their comments on the proposal presented by the representative of FSICA in the last FSSAG meeting for discussion.

From operational point of view the proposal would be confirmed subject to the following amendments:

- Under automatic fixed installation other than water (Clean Agent Fire Extinguishing System), column 3 of item 1 and 2, (See remark : #3) should be replaced by a tick;
- Under Drencher System, column 4 of item 1, (See Remark : #3) should be replaced by a tick;
- Under Sprinkler Pump Running, column 1 of item 1 and 2, (Remark : #4 should be amended to read as (Remark : #3) and column 4 of item 1 should be amended to read as (Remark : #4); and
- Under Remarks column, #3 should be totally deleted; #4 should be amended to read as #3 and #5 should be amended to read as #4.

FSICA was requested to revise the proposal according to the comment above after

the meeting and then forward the revised version to FSD. Subject to the confirmation of FSD, the revised version would be uploaded onto the FSD website for reference of parties concerned. [Post-meeting Notes : The revised proposal was received by FSD on 13 October 2019.]

8 *Proposed Minimum Effective Water Volume in F.S. Water Tank for System Equipped with Transfer System*

Representative of HKIE(BSE) tabled the revised diagram and further explained the reason of including direct and indirect systems in the meeting. Members noted the revision and had no further comment on the revised diagram. The calculation method stated therein was confirmed in this meeting.

The FS CoP was being revised and would be available for issue in early 2020. The confirmed diagram as prepared by HKIE(BSD) would be included in the updated FS CoP.

9 *Review of Hazard Classification of Sprinkler System Installation for A&A work*

The attention on the review of hazard classification of sprinkler system during A&A works was presented in the last FSSAG meeting. As there was no supplement to this issue, the meeting agreed to delete this item in the next meeting.

10 *FS System Provision in Cabinet and Pipe/Cable Duct*

As no further discussion on the issue was required, members agreed that this item would be deleted in the next meeting.

11 *Review of Application for Inspection and Testing of Fire Service installations and Equipment (FSI/501)*

FSD reported that comments from FSSAG regarding the revised form FSI/501 and the newly devised form FSI/501a were received and being studied by FSD. Meanwhile, consultation of views of the proposed revamped application procedures for FSI compliance inspection from other stakeholder was in progress.

After consolidating the comments from members and other stakeholders concerned, forms FSI/501 and FSI/501a would be confirmed. Members would

be informed of the roll-out arrangement by a FSD Circular Letter in due course. As no further discussion on the issue was required, members agreed that the item would be deleted in the next meeting.

12 *Automatic Operated Total Flooding Systems complying with NFPA Standard 2001 (FSICA)*

Representative of FSICA presented to the meeting the major changes of the requirement observed in the new NFPA 2001 (2018 Edition) on the design of the automatically operated total flooding systems which might be different from the current local practices in the 2015 Edition. It was suggested that a comprehensive study to the new requirements within the industry would be necessary and conducted.

FSICA was requested by the FSD to prepare a detail comparison summary between 2015 vs 2018 edition NFPA 2001 of total flooding system which would be circulated to FSSAG members for their perusal and further discussion in the next meeting. FSICA undertook to prepare the comparison summary and forward it to FSD before the next meeting. [Post-meeting Notes : The comparison summary prepared by FSICA was circulated to FSSAG members on 22 October 2019.]

13 *Circuit Isolator Requirement of Fire Detection and Fire Alarm System (FSICA)*

After studying the proposal made by FSICA thoroughly, FSD had concluded that in view of the system integrity as stated in the BS5839-1:2002+A2:2008, the requirements of separate loop cable or the use of isolator had been reviewed. Generally, fire detection, fire alarm, alarm devices and signal monitoring circuits could be installed in a single loop circuit within 2000m². Other than the above mentioned circuits, isolator or separate loop cable should be provided accordingly.

The meeting discussed the subject matter in detail. To facilitate further discussion in the next meeting, it was agreed that on the principle and basis of FSD's comments as stated above and the comments made by members in the meeting, FSICA would prepare a proposal with different scenarios presenting in the form of diagram for Members' ease of reference.

14 *Routine Inspection & Tests for Self-contained Emergency lighting System (HKFEMC)*

Representative of HKFEMC presented to the meeting the contents of the Routine Inspection & Tests for Self-contained Emergency lighting System. In this regard, several aspects in FSD Code of Practice for inspection, testing and maintenance (CoP) required to be clarified or further interpreted by FSD.

FSD replied as follows:

- PPA104A would not supersede FSI CoP. Instead, the requirements for voltage and hydrometer test would be reviewed in the sub-working group of BS5266-1.
- The discharge test would also be reviewed in the sub-working group of BS5266-1.
- Relevant clause in the PPA104A would be reviewed.
- The test results for both manual and automatic test type, self-contained emergency lighting system should be recorded in the logbook.

15 *System integrity for the use of linear heat detection system (FSD)*

The operational features of the linear heat detection system could not fully comply with the requirements as stated in the clause 12.2.2 of BS5839-1:2002+A2:2008 about the system integrity. In view of that, the modified requirements were devised to address the practical constraint of the linear heat detection system and meet the requirements of system integrity from fire safety point of views.

Regarding the subject matter, members are invited to note the diagram which had been discussed and endorsed by the BS5839-1 Sub-working Group. The diagram would be uploaded onto the FSD website for public information. [See Attachment]