



FSD Connects **with the Construction Industry**

**Experience Sharing on Acceptance Inspection of FSI,
FSI worker Scheme and Fire Safety of Buildings**

24th December 2020

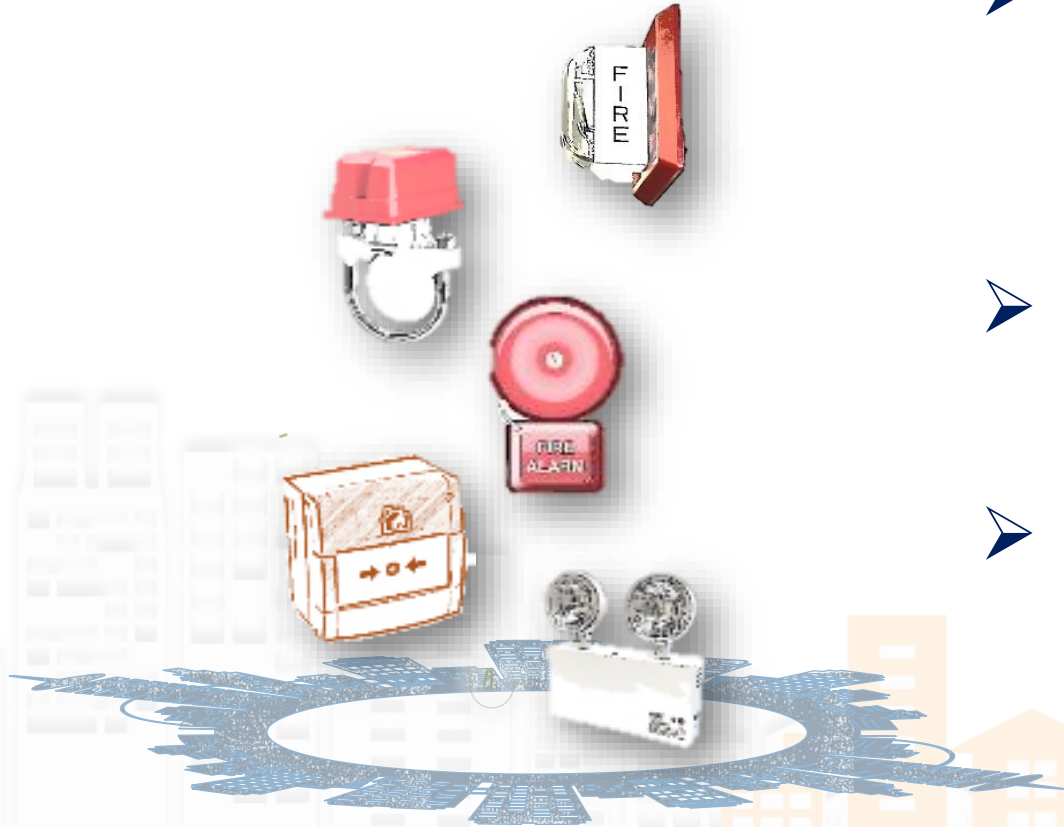


WELCOMING ADDRESS



Ir LEUNG Kwun-hong, FSDSM
Assistant Director (Licensing and Certification)

OBJECTIVES



- Facilitate the trade in meeting the standards of fire safety design and FSI in buildings
- Foster swift processing of FSI plan and efficient acceptance inspection of FSI
- Strengthen connectivity, collaboration and partnership with the trade

Summary Past Seminar



FSD Webinar on 25.3.2020



Annual Inspection Checklists for Fire Hydrant/Hose Reel Systems



Revised Application Procedure for Inspection and Testing of Fire Service Installations and Equipment in New Building

FSD Connects on 17.7.2020



FSI Acceptance Inspection & Case Sharing



Annual Inspection Checklists on Sprinkler System



Electrical Installations for Electric Vehicle



Approval of Portable Equipment / Acceptance of FSI Products



Introduction of Reference Guide for Design, Installation, Acceptance and Maintenance of FSI

Introduction of Fire Safety (Industrial Buildings) Ordinance Cap. 636

1 27 Nov 2017

25 Jun 2018

23 Nov 2018

11 Jun 2019

19 Dec 2019

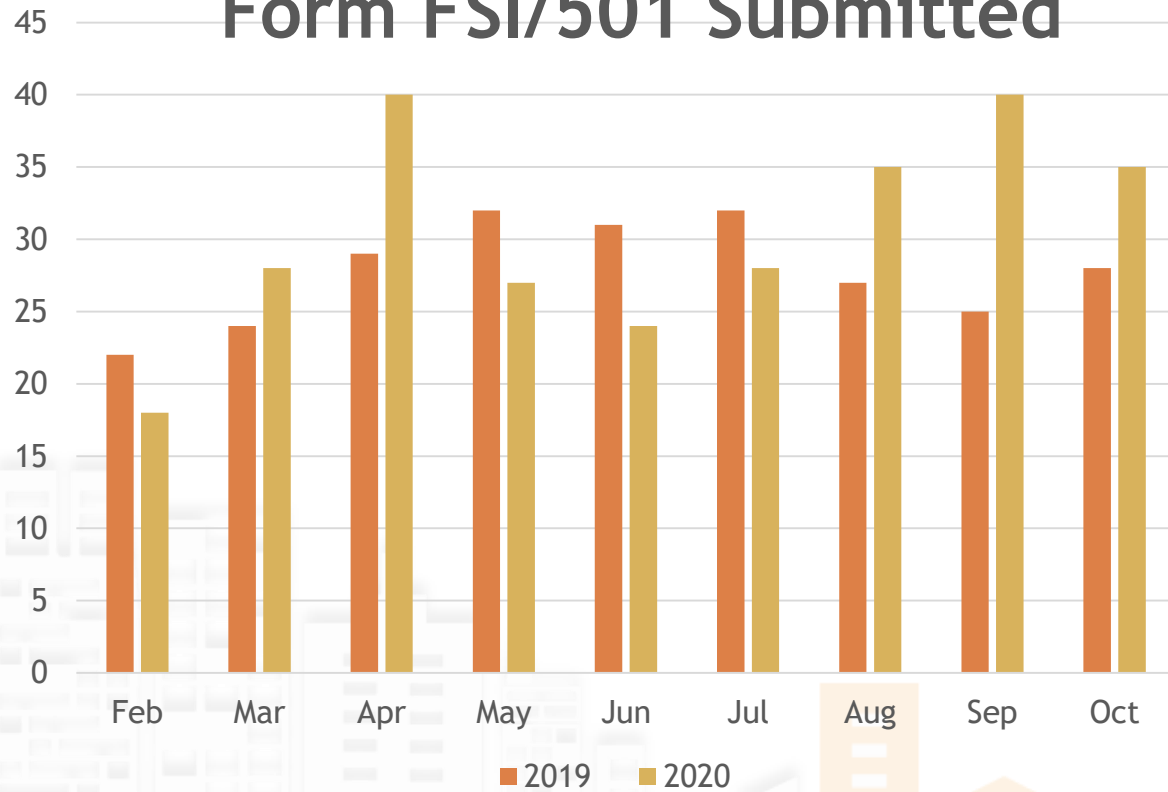
17 Jul 2020

7 24 Dec 2020



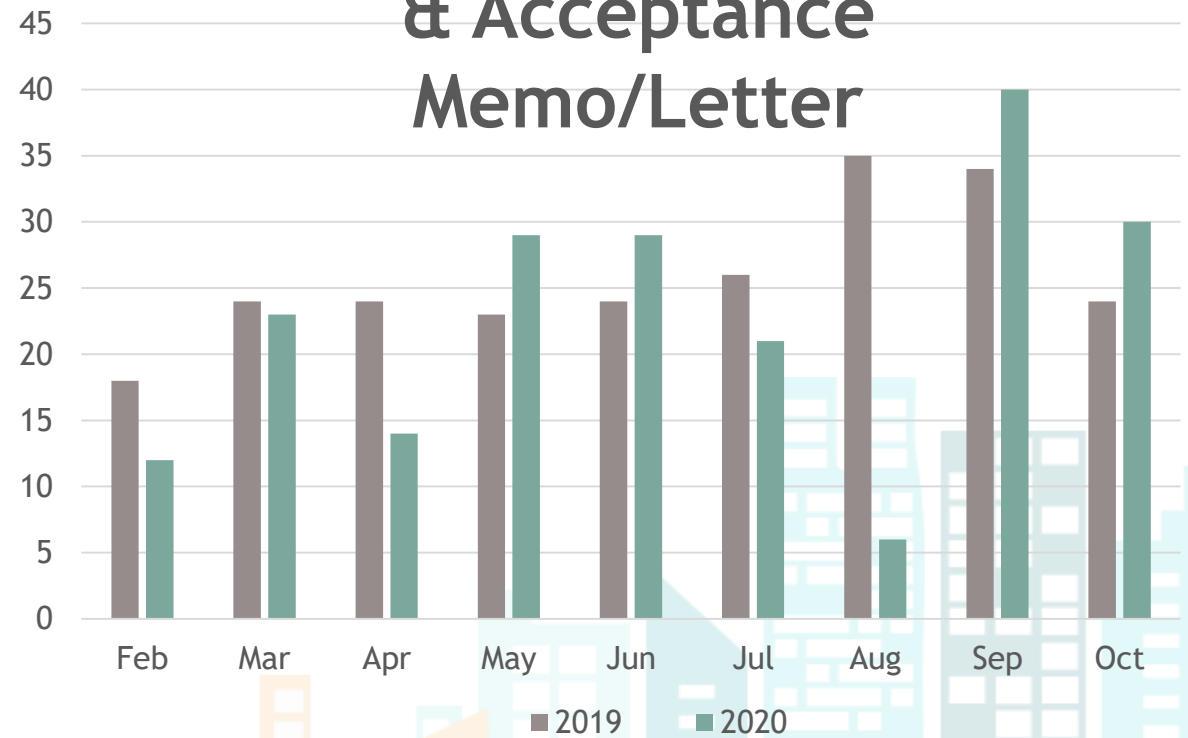
Statistics of 2020

Form FSI/501 Submitted



Sub-total: 250 / 275

Issuance of F.S.172 & Acceptance Memo/Letter

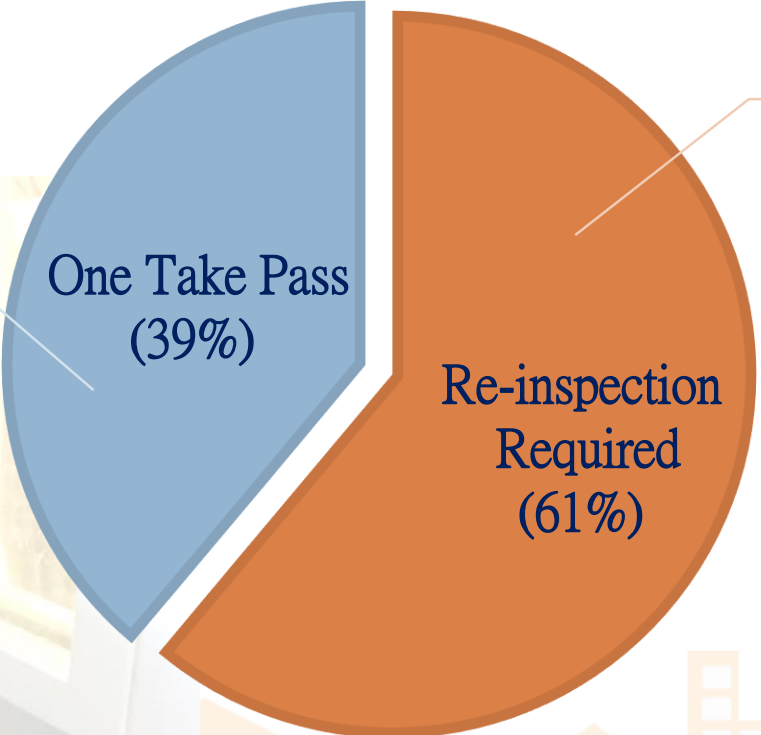


Sub-total: 232 / 204

Projects with SES and/or SPS



Duration: .
Average of 2 months



Duration:
May be up to 7 months

Source: May 2018 - Sep 2020 (Project with FS172 only)

Case Study

A residential development

(Sep – Oct 2020)

Onsite Inspection	5 Days
Re-inspection	Not required
Documents checking	20 Days
Sub-total	25 Days



HINTS for Smooth Acceptance Inspection



1 | Assure Collaborative Involvement

Liaisons among RPE, owner, AP, consultant, RFSIC and etc.

2 | Familiar with acceptance criteria

Submit Accurate T&C Report and doc.
Possess Good FS knowledge

3 | Perform High quality of works

Confirm Site Readiness and Safety
Prepare Smooth Rundown
Arrange good Telecommunication

4 | Adopt Prescriptive/ Fire Engineering Design Approach

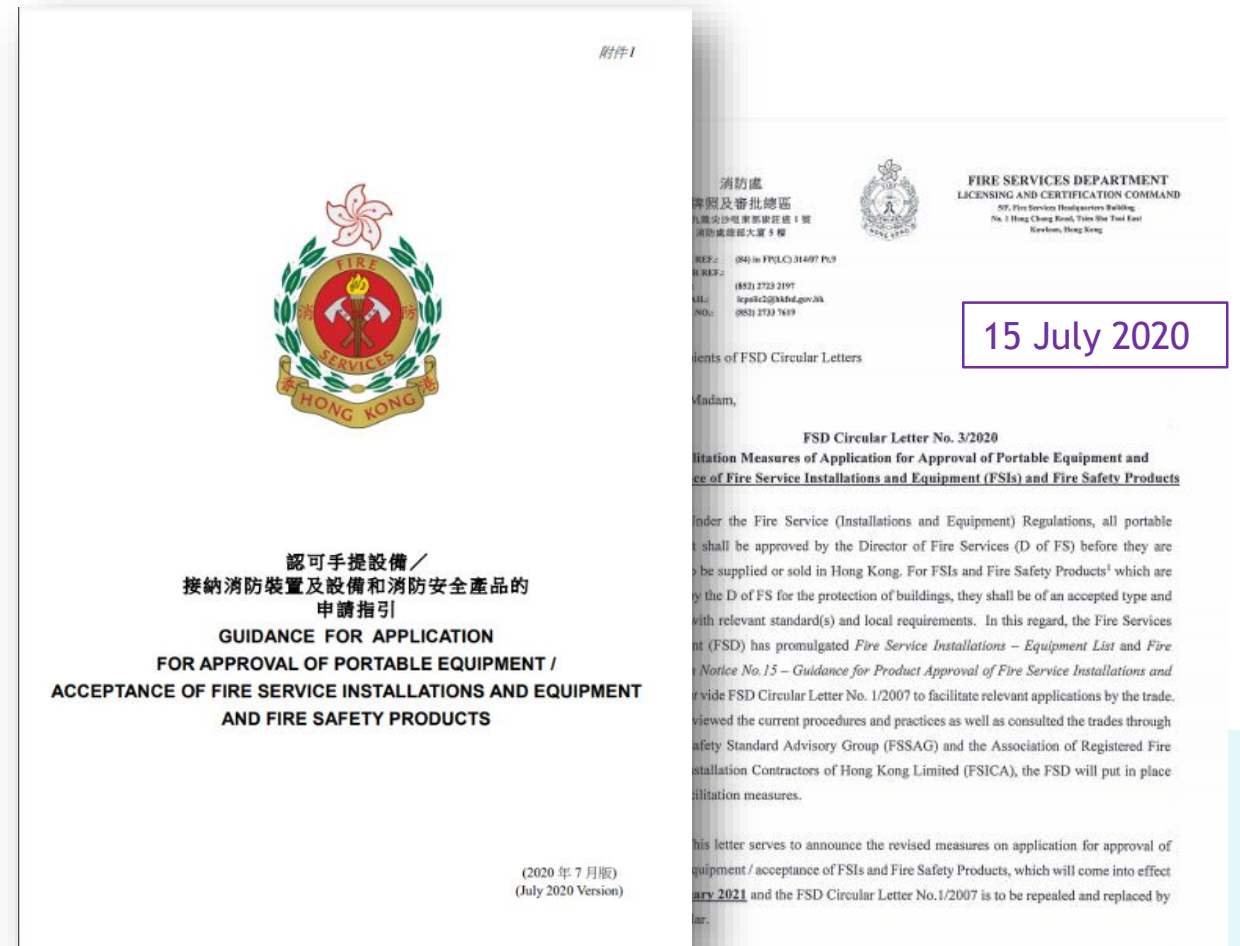
Provide Early Submission for Fire Engineering Design

Review of the last seminar

1

FSD Circular Letter No. 3/2020 Facilitation Measures of Application for Approval of Portable Equipment and Acceptance of Fire Service Installations and Equipment (FSIs) and Fire Safety Products

Effective Date: 1.1.2021



¹ Fire Safety Products – means the equipment or installations other than FSIs which are crucial to fire safety, e.g. emergency exit devices.

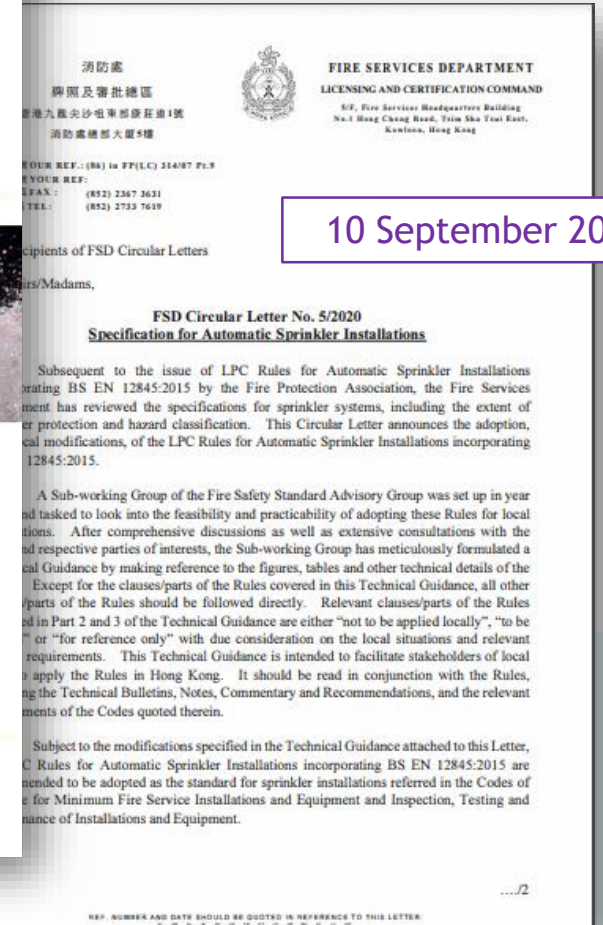
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Review of the last seminar

2

FSD Circular Letter No. 5/2020 Specification for Automatic Sprinkler Installations

Effective Date: 1.1.2021



Review of the last seminar

3

FSD Circular Letter No. 8/2020 Annual Inspection Checklists on Sprinkler System

Effective Date: 1 June 2021

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牌照及審批總區
香港九龍尖沙咀彌敦道1號
消防處總部大樓5樓



FIRE SERVICES DEPARTMENT
LICENSING AND CERTIFICATION COMMAND
1/F, Fire Services Headquarters Building
No. 1 Hong Chung Road, Tsim Sha Tsui
Kowloon, Hong Kong

本處傳真 FAX: (852) 2723 2287
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電話 TEL NO: (852) 2733 7419

15 December 2020

To: Recipients of FSD Circular Letters

Dear Sir/Madam,

FSD Circular Letter No. 8/2020 Annual Inspection Checklist for Sprinkler Systems

This Letter serves to announce the introduction of an annual inspection checklist to facilitate annual inspection (AI) of sprinkler systems by Registered Fire Service Installation Contractors (RFSICs).

The AI checklist for sprinkler systems (Annex) is devised by making reference to the codes and standards published by relevant overseas professional bodies and upon extensive consultation with local trade members. It specifies the minimum requirements for conducting AIs. Items listed in the checklist and its appendices, if applicable to the sprinkler system in the buildings/premises, shall be inspected/tested. RFSICs shall, after inspection, complete the checklist by indicating, where appropriate, whether the inspected and tested items conform to the standards/requirements as stipulated in the Code of Practice for Minimum Fire Service Installations and Equipment (the version that is relevant to the buildings/premises).

This apart, RFSICs shall duly observe the principles and requirements regarding "Completion of checklists for AI" and "Duty and responsibility of RFSICs" as stated in FSD Circular Letter No. 4/2019 "Annual Inspection Checklists for Fire Hydrant/Hose Reel Systems and Supply Tanks" issued on 3 December 2019. It is important for RFSICs to note

Reference number and date should be quoted in reference to this letter
凡提及本信件號及日期時請註明

Annual Inspection Checklist for Sprinkler Systems

RFSIC Ref:

Serial no. of FS 251:
Completion Date of Annual Inspection:
Building/Premises Address:

The annual inspection is conducted in accordance with the appropriate edition of the Sprinkler Installation Rules applicable to the system(s) in the building/premises. In this Checklist, items required in such Rules are inspected and/or tested.

See Table I for the Schedule of Equipment and Table II for the Water Supply Flow Rate and Pressure Testing Record.

1.	Type of Water Supply (Please insert a "✓" in the appropriate box)	Remarks
	Direct town main connection without any pump	<input type="checkbox"/> Where applicable, parts of the water supply portion that need inspection is listed in Appendix I.
	Sprinkler tank refilled directly from town main	<input type="checkbox"/>
	Sprinkler tank refilled from town main via a transfer pumping installation	<input type="checkbox"/>
	Internal fire main which serves more than one building and/or system	<input type="checkbox"/> Where applicable, parts of the water supply portion that need inspection is listed in Appendix I.

When sprinkler tank(s) is/are involved, parts of the water supply portion that need inspection is listed in the Checklist for Supply Tanks.

Remarks: 1. Appendix XII may be used individually if the annual inspection only involves the sprinkler installation within one or more residential flats.

2. "Yes" denotes compliance with the FSD's requirements. "No" denotes non-compliance with the FSD's requirements. "N/A" denotes not applicable.

Please insert a "✓" in the appropriate box.

	N/A	Remarks
2. Sprinkler Pump Installation (where provided) The annual inspection for sprinkler pump installation, where provided, is recorded in Appendix II.	<input type="checkbox"/>	If N/A, go to 4

3. Sprinkler Intermediate Booster Pump Installation (where provided) The annual inspection for sprinkler intermediate booster pump installation, where provided, is recorded in Appendix IV.	<input type="checkbox"/>	If N/A, go to 4
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4. Sprinkler Inlet	Yes	No	N/A	Remarks
a. The sprinkler inlet(s), including the body, couplings, hand-wheel, stems, built-in non-return valves and other accessories, where applicable, is/are intact and free from leakage and/or corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. The sprinkler inlet(s) is/are equipped with a drain cock for pressure relief, and the drain cock is tested to be in working order.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Annual Inspection Checklist for Sprinkler Systems

Table II

Water Supply Flow Rate and Pressure Testing Record

Building/Premises Address:

Building/Block Name:

Item no.	Floor Level(s) to be served	Height of Highest Sprinkler above Control Valve (m)	Water Supply Source (Remark: Insert a "✓" in the [] for the applicable type(s) of water supply source)	Flow Rate (l/min)	Pressure (bar)
			Jockey Pump <input type="checkbox"/>	N/A	
			Sprinkler Pump No. _____ <input type="checkbox"/>		
			Sprinkler Pump No. _____ <input type="checkbox"/>		
			Sprinkler Intermediate Booster Pump No. _____ <input type="checkbox"/>		
			Sprinkler Intermediate Booster Pump No. _____ <input type="checkbox"/>		
			Sprinkler Tank Gravity Supply <input type="checkbox"/>		
			Direct Town Main Supply <input type="checkbox"/>		

Remark:

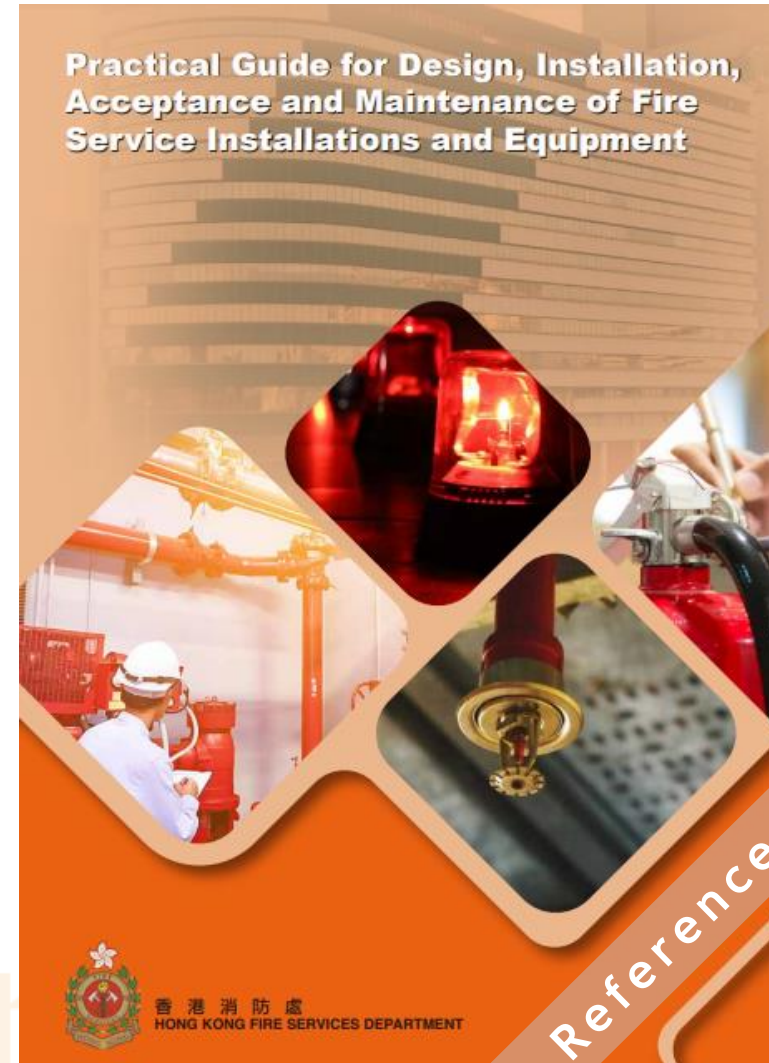
- For jockey pump(s), only testing on zero-flow pressure (churning pressure) is required. The pressure measurement shall be taken at the sprinkler control valve.
- Other than jockey pump(s), testing at the two rated flow characteristics (including "flow" and "maximum demand flow" as per EN 12845 (known as "low flow" and "high flow" as per BS 5306-2 and the two "characteristics not less than" as per FOC) are required. The flow and pressure measurements shall be taken at the sprinkler control valve.
- For pumped supply where the pumps are designed to deliver up to the nominal data (nominal rating), testing at nominal data shall also be taken which shall be measured at the pump room/enclosure/space.
- Use additional sheets where necessary.

2/2-Table

Review of the last seminar

4

Practical Guide for Design,
Installation, Acceptance and
Maintenance of FSI



Planned Roadmap



BS 5266-1:2016

BSI Standards Publication

Emergency lighting

Part 1: Code of practice for the emergency lighting of premises



5

Technical Guidance
Application of BS 5266-1:2016
and BS EN 1838:2013 for Emergency
Lighting System in Hong Kong

6

Technical Guidance
Application of BS 5839-1:2017
in Hong Kong

BS 5839-1:2017
Incorporating Corrigendum No.1



BSI Standards Publication

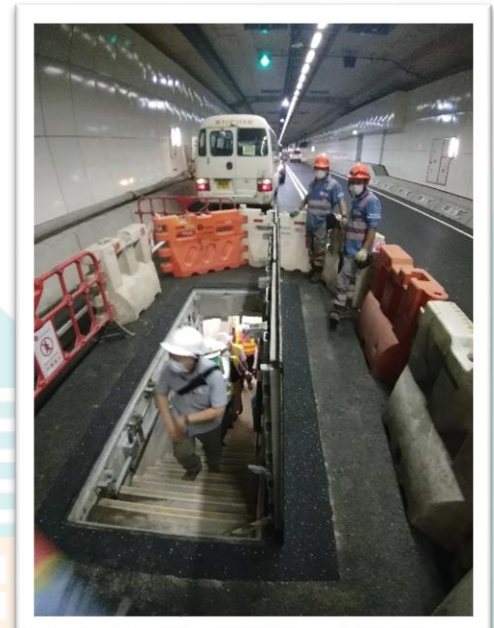
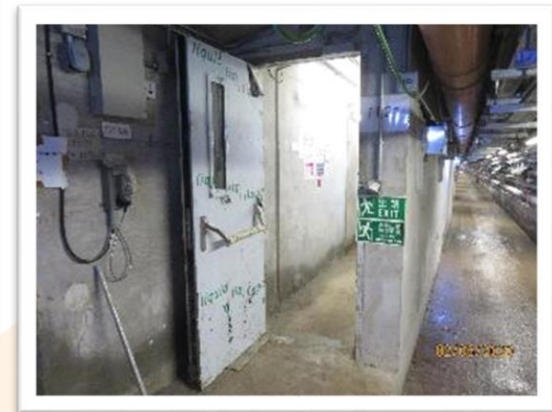
Fire detection and fire alarm systems for buildings

Part 1: Code of practice for design, installation, commissioning
and maintenance of systems in non-domestic premises

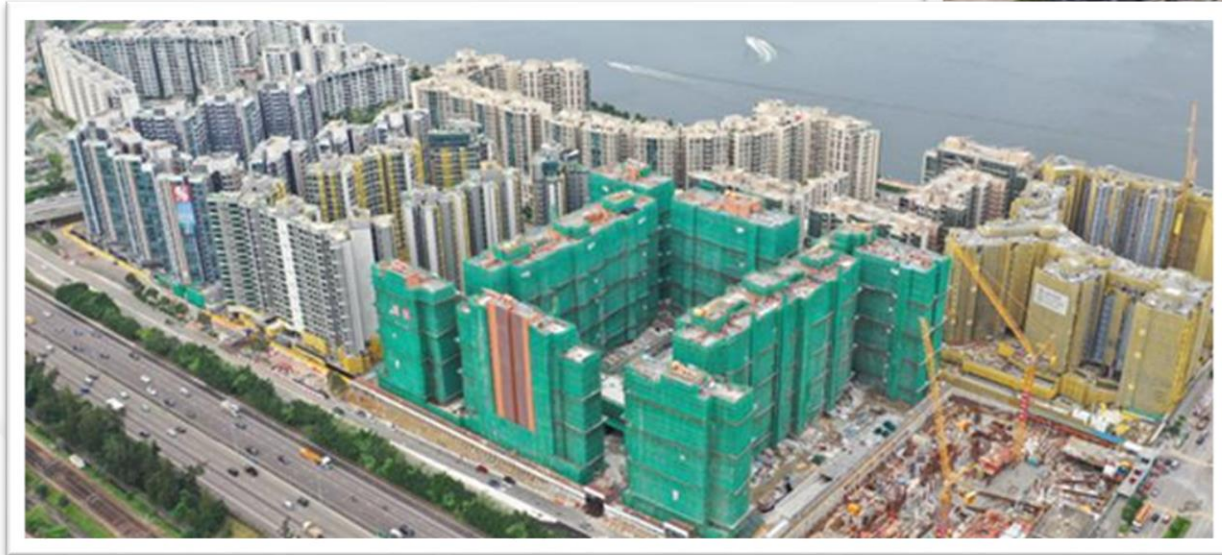


Major Projects in 2020

Tuen Mun - Chek Lap Kok Link



Private Projects in 2020



Completed MiC in 2020

Quarantine Facilities

Penny's Bay



Pat Heung JPC



Sai Kung Outdoor
Recreational Centre



Lei Yu Mun



AGENDA of Today

Experience Sharing on acceptance inspection and Hot Smoke Test

Revised procedure for reporting FSI Shutdown

Promotion of wider adoption of stand-alone fire detectors

01

02

03

04

05

FSI drawing submissions under statutory buildings improvement works

Voluntary Recognition Scheme for FSI Trade



Experience sharing on FSI Acceptance Inspection

Senior Station Officer LAU Ying-kai

Fire Service Installations Division

Licensing and Certification Command

Hong Kong Fire Services Department


Today's sharing

- ① **Analysis of the application of FSI acceptance inspection**
- ② **Experience sharing on the acceptance inspection of smoke extraction systems**
- ③ **Performance verification by hot smoke test**

Revised application procedures for FSI acceptance inspection

- FSD Circular Letter No. 1/2020
- Effective 1 May 2020
- Briefings on 25 March 2020 & 17 July 2020
- Sharing available with video recording at:
https://www.hkfsd.gov.hk/eng/fire_protection/licensing/

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FIRE SERVICES DEPARTMENT
LICENSING AND CERTIFICATION COMMAND
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No. 1 Hong Chong Road, Tsim Shu Tui East
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10 February 2020

To: Recipients of FSD Circular Letters

Dear Sir/Madam,

FSD Circular Letter No. 1/2020
Revised Application Procedure for Inspection and Testing of
Fire Service Installations and Equipment in New Building

This letter serves to announce the revised application procedure for inspection and testing of fire service installations and equipment (FSI) by FSI/501 submission which will come into effect on 1 May 2020.

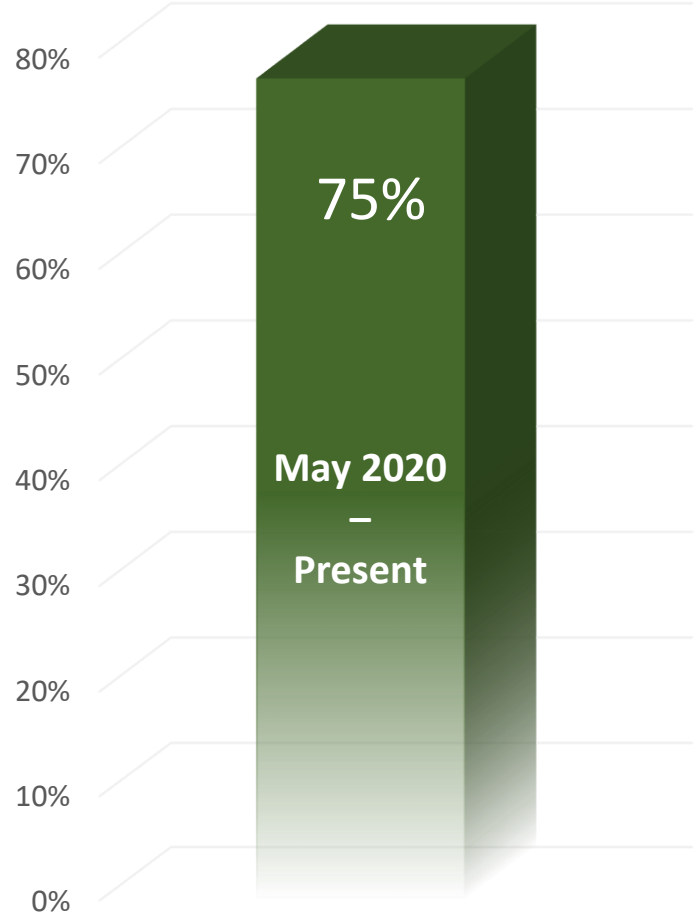
Currently, application for inspection and testing of FSI in new building¹ should be submitted by authorized person (AP) who together with the registered fire service installation contractor (RFSIC) concerned are required to sign on the same application form FSI/501 to certify that the FSI listed therein have been installed and tested, and are in efficient working order pursuant to the Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment (Code). To facilitate the application process, as well as to specify clearly the respective areas of professional responsibility of AP, registered professional engineer (RPE) and RFSIC engaged in the process, the Fire Services Department (FSD) has revised the application procedure and divided the extant application form into FSI/501 (Rev.2020) and FSI/501a. The revised application procedure together with the new forms will be put into general use with effect from 1 May 2020.

¹ According to the Buildings Ordinance (Cap. 123), new building means any building hereafter erected and also any existing building of which not less than one half measured by volume is rebuilt or which is altered to such an extent as to necessitate the reconstruction of not less than one half of the superficial area of the main walls.

Reference number and date should be quoted in reference to this letter
凡提及本信時請引註編號和日期

Analysis of FSI/501 Application – Successful Rate

185 out of 247 Cases



1.5.2020 – 30.11.2020

FSI/501
Section 21(6)(d) of the Buildings Ordinance (Cap. 123)
Application for Inspection and Testing of Fire Service Installations and Equipment

FP Ref. No. *8/43/1234<56> *19/20/43/54321

Types of Fire Service Installations and Equipment:

<input checked="" type="checkbox"/> Audio/Visual Advisory System	<input type="checkbox"/> Fire Blanket	<input checked="" type="checkbox"/> Sand Bucket
<input type="checkbox"/> Automatic Actuating Device	<input type="checkbox"/> Fire Control Centre	<input checked="" type="checkbox"/> Sprinkler System
<input type="checkbox"/> Automatic Fixed Installation other than Water	<input checked="" type="checkbox"/> Fire Detection System	<input type="checkbox"/> Static Smoke Extraction System
<input type="checkbox"/> Deluge System	<input checked="" type="checkbox"/> Fire Hydrant/Hose Reel System*	<input type="checkbox"/> Street Fire Hydrant System
<input type="checkbox"/> Drencher System	<input checked="" type="checkbox"/> Fixed Automatically Operated Approved Appliance	<input checked="" type="checkbox"/> Supply Tank
<input type="checkbox"/> Dust Detection System	<input type="checkbox"/> Fixed Foam System	<input checked="" type="checkbox"/> Ventilation/Air Conditioning Control System
<input type="checkbox"/> Dynamic Smoke Extraction System	<input type="checkbox"/> Gas Detection System	<input type="checkbox"/> Water Mist System
<input checked="" type="checkbox"/> Emergency Generator	<input type="checkbox"/> Gas Extraction System	<input type="checkbox"/> Water Spray System
<input checked="" type="checkbox"/> Emergency Lighting	<input checked="" type="checkbox"/> Portable Fire Extinguisher	<input checked="" type="checkbox"/> Water Supply
<input checked="" type="checkbox"/> Exit Sign	<input type="checkbox"/> Pressurization of Staircase	<input type="checkbox"/> Others
<input checked="" type="checkbox"/> Fire Alarm System	<input type="checkbox"/> Ring Main System with Fixed Pump(s)	

Please tick the appropriate boxes.

Address of Premises
ABC Temporary Maternal and Child Health Centre, No. 1 ABC Road, Kowloon

Part A: (to be completed by Registered Professional Engineer (if applicable))
I hereby certify that the staircase pressurization system(s)/dynamic smoke extraction system(s)/water mist system(s)/other system(s) (please specify) listed above and in the attached FSI/501a, which was/were approved by the Fire Services Department (FSD) on (FSD Ref. No. _____), has/have been installed and tested in accordance with the FSD's requirements. I am satisfied that the above systems are operating in accordance with the approved design and the requirements of the FSD.

Full Name: _____ Discipline: _____
Registered Professional Engineer Number: _____ Date: _____

Signature of Registered Professional Engineer: _____

Part B: (to be completed by Authorized Person)
I hereby certify that:
1. the fire service installation(s)/equipment listed above and in the attached FSI/501a has/have been installed in accordance with the approved building plans stamped by the FSD on 19/08/2019 and is/are ready for inspection;
2. Fire Service Completion Advice in respect of fire service installation(s)/equipment requiring government water main connection has been appplied for/issued by the Water Supplies Department (copy attached/not attached).

* Please delete as appropriate.
FSI/501 (Rev. 2020) P. 1/2

FSI/501a
RFSIC Ref. No. RC 2 / 2733 - 20200501 - 01
(RFSIC Reg No.) (Submission Date) (yyymmdd)

Certificate of Completion of Installation of Fire Service Installations and Equipment in New Buildings
(Discrete No. Assigned by RFSIC)

FP Ref. No. *8/43/1234<56> *19/20/43/54321

Types of Fire Service Installations and Equipment:

<input checked="" type="checkbox"/> Audio/Visual Advisory System	<input type="checkbox"/> Fire Blanket	<input type="checkbox"/> Sand Bucket
<input type="checkbox"/> Automatic Actuating Device	<input type="checkbox"/> Fire Control Centre	<input checked="" type="checkbox"/> Sprinkler System
<input type="checkbox"/> Automatic Fixed Installation other than Water	<input checked="" type="checkbox"/> Fire Detection System	<input type="checkbox"/> Static Smoke Extraction System
<input type="checkbox"/> Deluge System	<input checked="" type="checkbox"/> Fire Hydrant/Hose Reel System*	<input type="checkbox"/> Street Fire Hydrant System
<input type="checkbox"/> Drencher System	<input checked="" type="checkbox"/> Fixed Automatically Operated Approved Appliance	<input checked="" type="checkbox"/> Supply Tank
<input type="checkbox"/> Dust Detection System	<input type="checkbox"/> Fixed Foam System	<input checked="" type="checkbox"/> Ventilation/Air Conditioning Control System
<input type="checkbox"/> Dynamic Smoke Extraction System	<input type="checkbox"/> Gas Detection System	<input type="checkbox"/> Water Mist System
<input checked="" type="checkbox"/> Emergency Generator	<input type="checkbox"/> Gas Extraction System	<input type="checkbox"/> Water Spray System
<input checked="" type="checkbox"/> Emergency Lighting	<input checked="" type="checkbox"/> Portable Fire Extinguisher	<input checked="" type="checkbox"/> Water Supply
<input checked="" type="checkbox"/> Exit Sign	<input type="checkbox"/> Pressurization of Staircase	<input type="checkbox"/> Others
<input checked="" type="checkbox"/> Fire Alarm System	<input type="checkbox"/> Ring Main System with Fixed Pump(s)	

Please tick the appropriate boxes.

The above fire service installation(s)/equipment has/have been installed at (address of premises)
ABC Temporary Maternal and Child Health Centre, No. 1 ABC Road, Kowloon

and the installation work was completed on 01/05/2020. I hereby certify that such fire service installation(s)/equipment which was/were installed according to the FSI plans submitted under the cover of FSI/314 dated 01/05/2020 and/or building plans approved by FSD on 19/08/2019 has/have been tested and, to the best of my knowledge, is/are in efficient working order in accordance with the Codes of Practice for and Equipment published from time to time by the Director of Fire Services.

Original/true copies of the following documents are attached as follows:

- Completed testing and commissioning checklist(s)
- Listing certificate(s)/record(s)/document(s)/printout(s) from product certification bodies
- FSD approval/acceptance letter(s)
- Test certificate(s)/data sheet(s)/catalogue(s)/calculation(s)
- Others (please specify, e.g. Fire Safety Management Plan, Fire Engineering Report) see document list attached

Please tick the appropriate boxes(es).

Remarks: Relevant test report(s) for dynamic smoke extraction system/ staircase pressurization system endorsed by the Registered Professional Engineer, if applicable, should be attached.
This certificate shall be issued by RFSIC to the person on whose instructions the installation work was undertaken and a copy thereof shall be forwarded to the Director of Fire Services within 14 days after completion of the work.

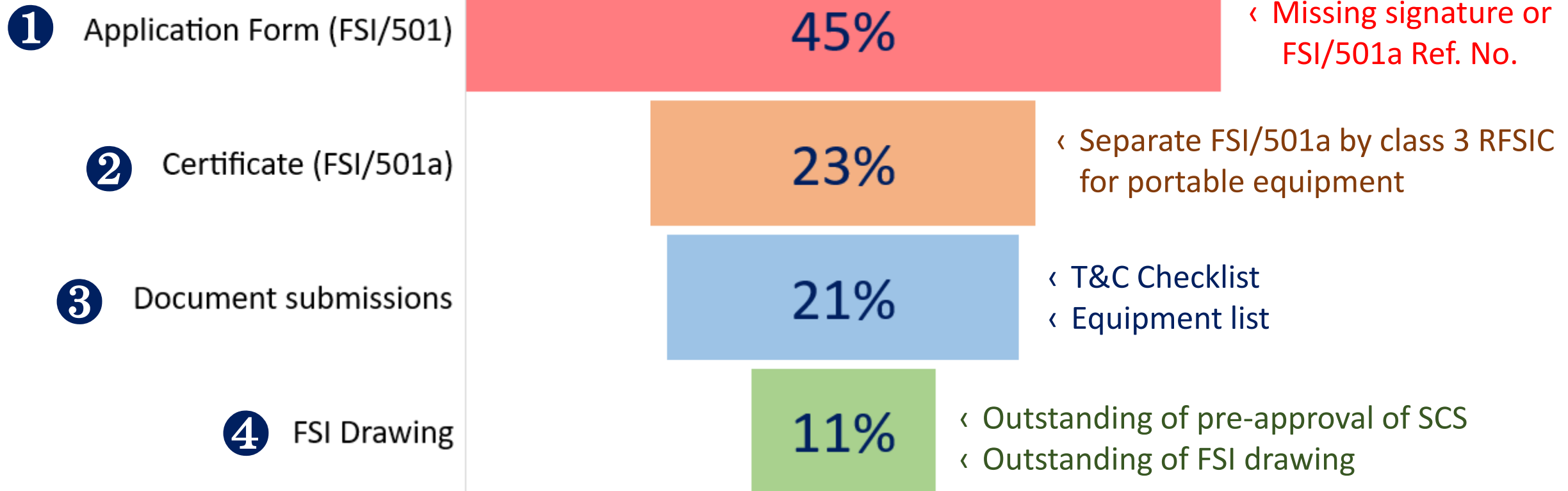
* Please delete as appropriate.
FSI/501a P. 1/2

Specimen available in **FSD Circular Letter No. 1/2020**

Major Causes of Unaccepted FSI/501 Application

62 unaccepted applications

Observations



Reference for application of acceptance inspection of FSI

Responsible Person	Type of Form/Document	Reference
AP / RPE	Form FSI/501 application for acceptance inspection	FSD Circular Letter No. 1/2020
RFSIC	Copy of Certificate FSI/501a #	
RFSIC	Form FSI/314 covering FSI Plans*	FSD Circular Letter No. 1/2015 FSD Circular Letter No. 4/2008 FSD Circular Letter No. 4/96
RFSIC / RPE	T&C Checklists	FSD Circular Letter No. 1/2015 (Appendix 1 to 7)
RFSIC / RPE	Test Reports for FSI	Part II of the CoP for Inspection, Testing and Maintenance of Installations and Equipment
RFSIC	FSI - Equipment List	FSD Circular Letter No. 3/2020 FSD Circular Letter No. 1/2015 (for application submitted on/before 31.12.2020)

** As prior approval for FSI including dynamic SES, SPS and VAC system shall have been obtained from FSD beforehand, no further submission of FSI plans for such system are required. However, RFSIC, AP & RPE shall be reminded that T&C checklist or test reports, where appropriate, for such FSI shall be submitted along with the application.*

RFSICs shall observe that specific FSI systems may be required prior approval or obtained an approved license, e.g. sprinkler installation by hydraulic calculation, DG license for fuel tank of emergency generator.

Analysis of FSI Acceptance Inspection

Summary of Analysis of 148 completed applications (May – Oct 2020 #)

Item	Descriptions (Nos./%)	Duration between Receipt of FSI/501 and Issue of FS172	Distribution of time	
			FSD	AP/RFSIC
		Average Calendar day	Average (%)	Average (%)
1	Cases WITHOUT Re-inspection [117 Cases (79%)]	47	72%	28%
2	Cases With 1 Re-inspection [26 Cases (18%)]	82	35%	65%
3	Cases With 2 Re-inspection [5 Cases (3%)]	97	28%	72%

Special work arrangement had been implemented due to Covid-19

* Blue colour – Time taken by FSD

* Red colour – Time taken by AP/RFSIC

Analysis of FSI Acceptance Inspection


Comparison between the **Former** and **New** Application Procedures since the implementation of facilitation measures* in early 2018

Course of Inspection	Former (FSI/501)	New (FSI/501 & FSI/501a)
	Average Calendar Day	Average Calendar Day
Cases WITHOUT Re-inspection	48	47
Cases with 1 re-inspection	88	82
Cases with 2 re-inspection	116	97
Cases with 3 re-inspection	150	Nil

* Facilitation measures include pre-inspection meeting, document checklist, etc.

Precautionary Measures against Covid-19 in Workplace

消防處
牌照及審批總區
香港九龍尖沙咀東麻莊道1號
消防處總部大廈5樓



FIRE SERVICES DEPARTMENT
LICENSING & CERTIFICATION COMMAND
FIRE SERVICES HEADQUARTERS BUILDING,
5/F, No.1 Hong Cheng Road,
Tsim Sha Tsui East, Kowloon
Hong Kong.

本處檔號 OUR REF.: (87) in FP 209/G/IX
來信檔號 YOUR REF.:
圖文傳真 FAX: 852-2367 3631
電話 TEL NO.: 852-2733 7617

8 Dec 2020

To: All Registered Fire Service Installation Contractors

Dear Sir/ Madam,

Precautionary Measures against Coronavirus Disease 2019 (COVID-19)
in the Workplace

In view of the severe local COVID-19 situation and recent reports of cases at construction sites, we would like to remind all Registered Fire Service Installation Contractors to take precautionary measures against the disease in the workplace. Such precautionary measures include:

1. Minimise the number of people in the workplace as far as practicable;
2. Keep body temperature and physical conditions in check regularly. Those with fever, respiratory symptoms or COVID-19 related symptoms such as sudden loss of taste/smell should refrain from going to work and seek medical advice promptly;
3. Wear a surgical mask and/or appropriate personal protective equipment; and
4. Practise social distancing, i.e. keep at least 1.5 m away from others.

During FSI acceptance inspections, you are also required to observe other anti-COVID-19 measures as advised by our personnel in the pre-inspection meetings. In case minor amendments have to be made to fire service installation plans after the inspection of new buildings, you may collect your plans from our office for amendment under our temporary arrangement as announced in our letter of 3 July 2020 for the purpose of minimising social contact.

.../2

REF. NUMBER AND DATE SHOULD BE QUOTED IN REFERENCE TO THIS LETTER
凡提及本信時請引註編號及日期

FS 107A (Rev. 10/95)

Letter to all Registered Fire Service Installation Contractors

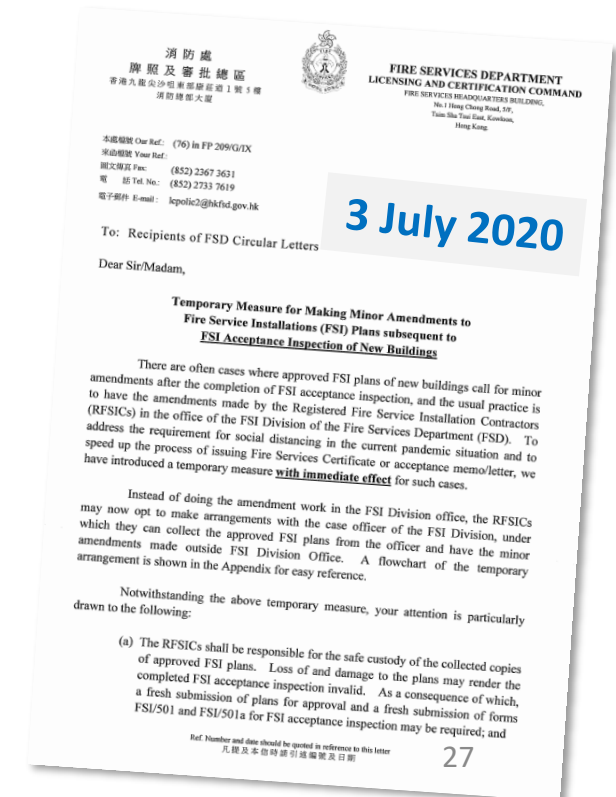
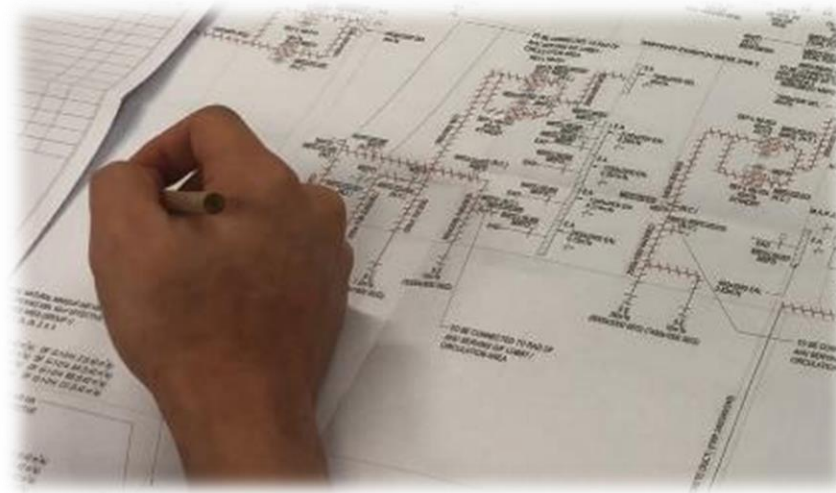
- ① Precautionary measures against the disease in the workplace
 - ❑ minimize no. of people in the workplace
 - ❑ Keep body temperature and physical conditions in check regularly
 - ❑ wear surgical mask and/or personal protective equipment
 - ❑ practise social distancing



Precautionary Measures against Covid-19 in Workplace

② During FSI acceptance inspections:

- ❑ observe anti-COVID-19 measures as advised by FSD personnel
- ❑ observe the temporary measure for FSI plans amendment via letter on 3.7.2020
 - ✓ maintain social distancing
 - ✓ speed up the document checking process



**Experience sharing on
acceptance of
dynamic smoke extraction system
&
verification of the performance by
hot smoke test**

Dynamic smoke extraction system (SES)

- Mechanical ventilation system capable of :-
 - Removing smoke and products of combustion
 - Supplying fresh air
 - Maintaining a tenable conditions below smoke layer

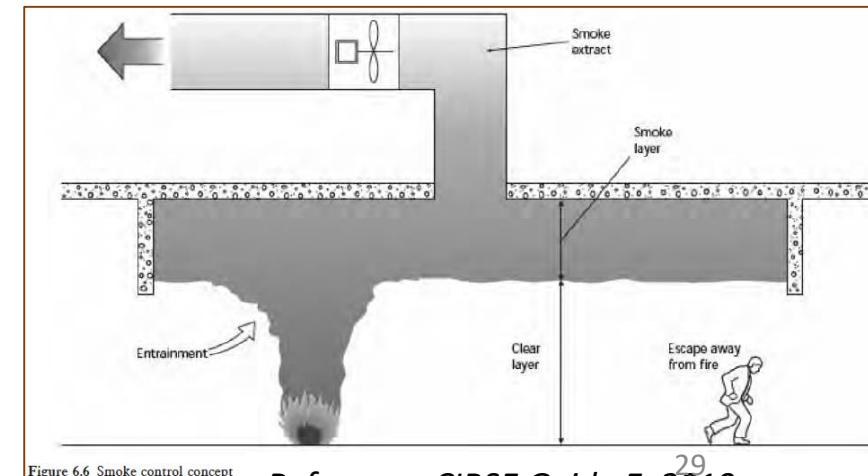
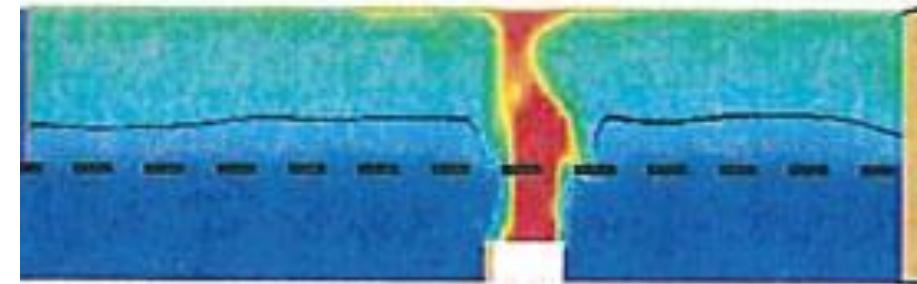
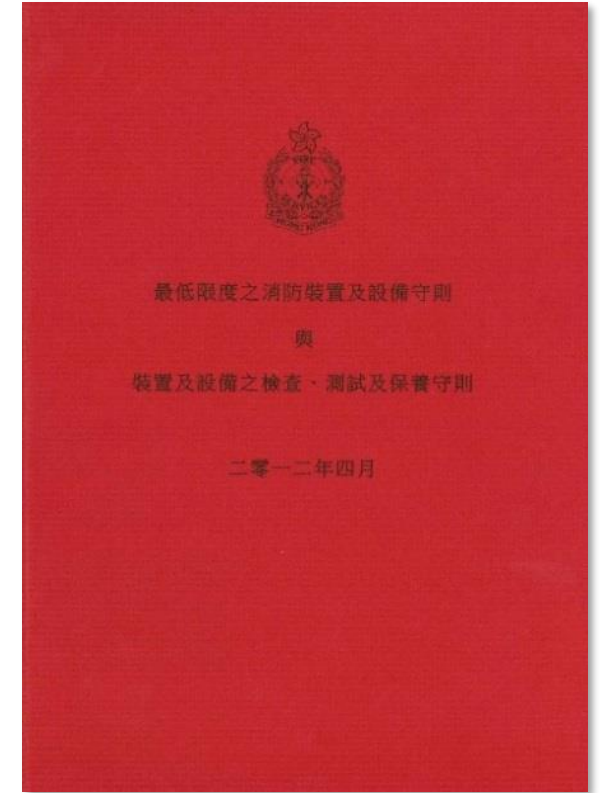


Figure 6.6 Smoke control concept

Reference: CIBSE Guide E, 2010

Design approach for SES

- Prescriptive Design
 - 8 Air Change per Hour (8 ACH) of the total compartment volume
- Fire Engineering Design
 - Design fire size based on the worst-case scenario
 - Smoke extraction rate determined by empirical calculations and computational simulation



Design workflow of SES

Prescriptive approach

GBP# → Detailed design (FSI/314) → Installation and T&C → FS Inspection

Fire engineering design approach

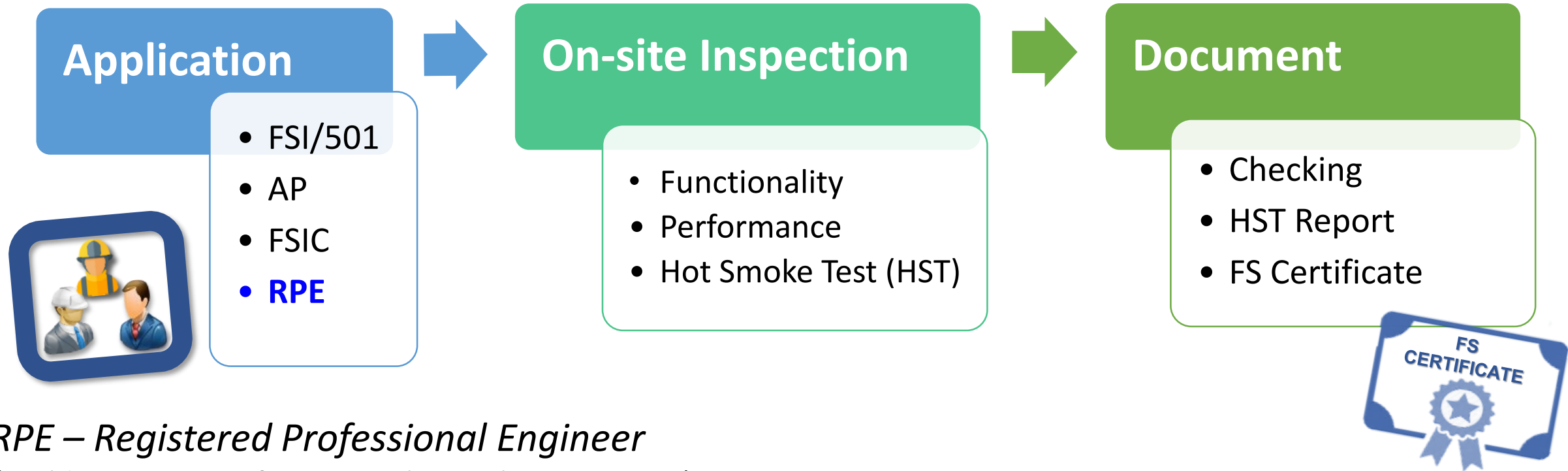
FE related submission → GBP # → Detailed design (FSI/314) → Installation and T&C → FS Inspection

Hot Smoke Test will be required in the building plans involving compartment:-

- with headroom of 12 m or more; or
- with irregular geometrical dimension or extraordinary large size

GBP – General Building Plan ; **T&C** – Testing & Commissioning

Workflow of acceptance inspection involving SES



*RPE – Registered Professional Engineer
(Building Services, fire or mechanical engineering)*

Verification of the performance of SES

Functionality	Performance
Actuation <ul style="list-style-type: none">• Smoke detector• Sprinkler flow switch	Total extraction rate <ul style="list-style-type: none">• Accumulated fans
Fan operation <ul style="list-style-type: none">• Smoke extraction fan• Make-up fan	Zone extraction rate <ul style="list-style-type: none">• Smoke zone extraction rate
Associated equipment <ul style="list-style-type: none">• Smoke curtain• Motorized fire & smoke damper• Make-up door	Flow velocity <ul style="list-style-type: none">• Extract grille ≤ 6 m/s• Mechanical make-up ≤ 6 m/s• Natural make-up ≤ 3 m/s

Performance verification by hot smoke test

Hot smoke Test

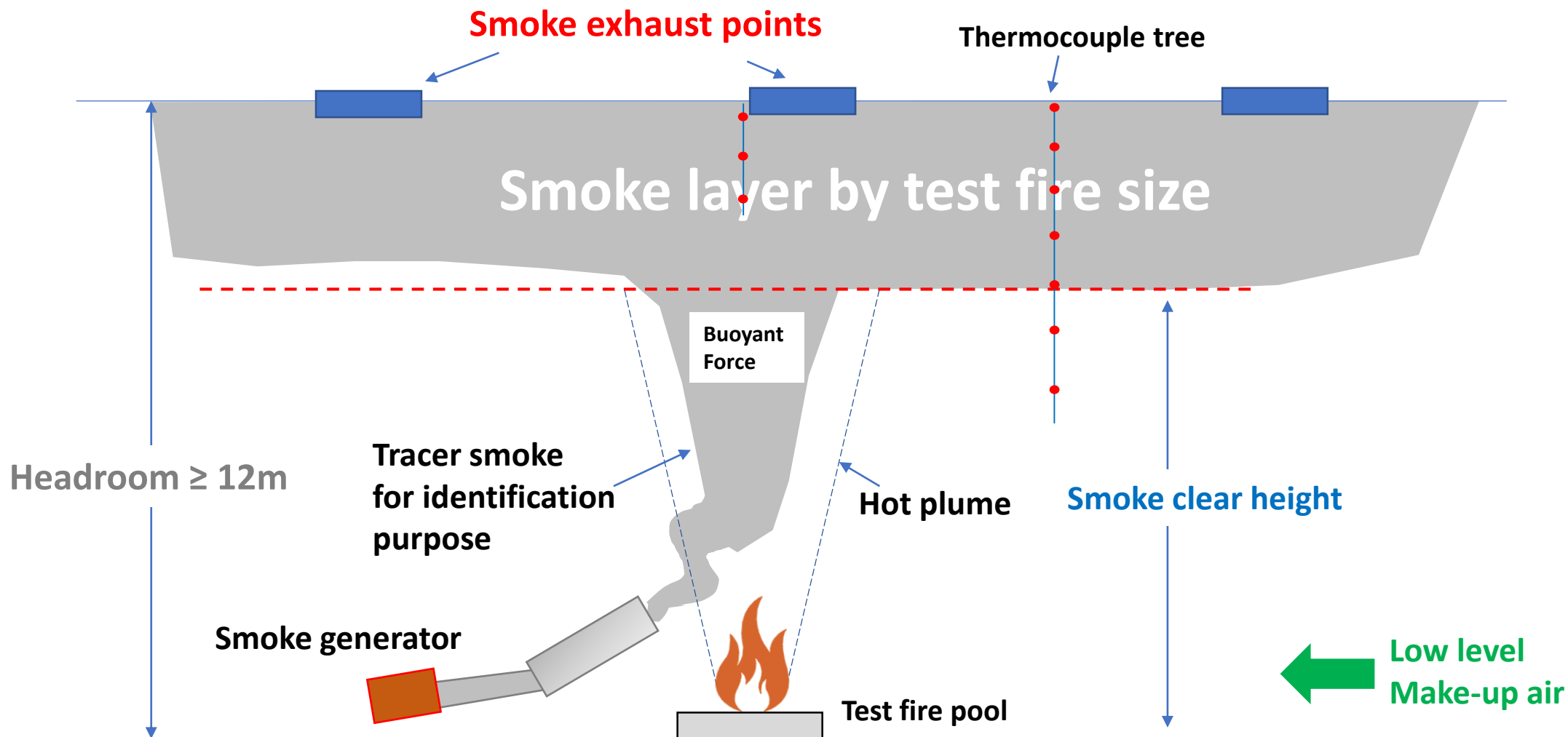
- To ensure the satisfactory installation of SES
- To ascertain the performance of SES

Requirements

- Code of practice for inspection, testing and maintenance of installations and equipment 2012 - Section 2.23



General principle of hot smoke test



Salient point of the tests

Test fire

- At least 1 MW or size agreed by FSD
- Non-contaminating industrial grade methylated spirit

Hot plume temperature

- maintained 10 °C or below a temperature rating of ceiling sprinkler

Tracer smoke

- Non-toxic oil based smoke generator

Reference: AS-4391:1999 Smoke Management Systems – Hot Smoke Test



Acceptable criteria

- ① **Prompt actuation** of SES
- ② **No impact on the stability of smoke layer** by make-up air. Low-level make-up air & high-level extract air forming flow path with “sourcing” effect.
- ③ **Designed smoke clear height be maintained**



Acceptable criteria

- ④ **No “stagnant corner”** with significant smoke built up beneath the smoke layer
- ⑤ **No significant disperse** of smoke to adjoining smoke compartment
- ⑥ **No deflection of smoke curtains** exceeding the design limit
- ⑦ **No smoke should re-enter** into the building through building openings or fresh intake louvres



Hot smoke test in a large compartment [video sharing]

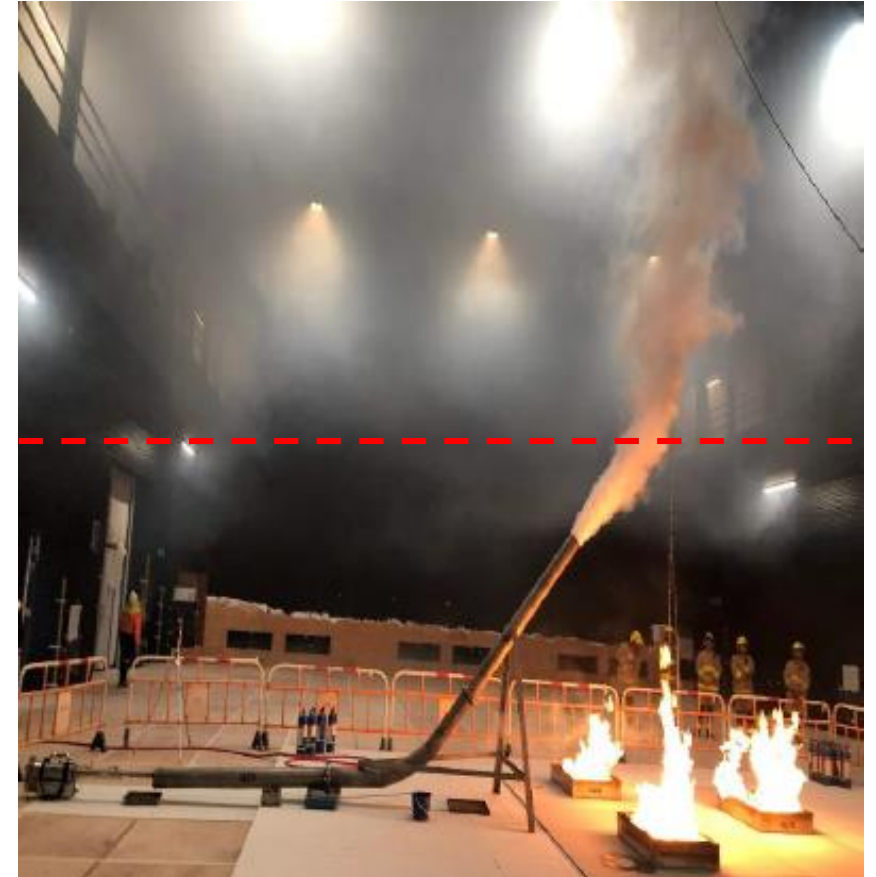


Observations by hot smoke test

Failure of maintenance of clear smoke layer



No smoke layer ✘



Clear smoke layer ✔
40

Disperse of smoke to adjoining smoke compartment

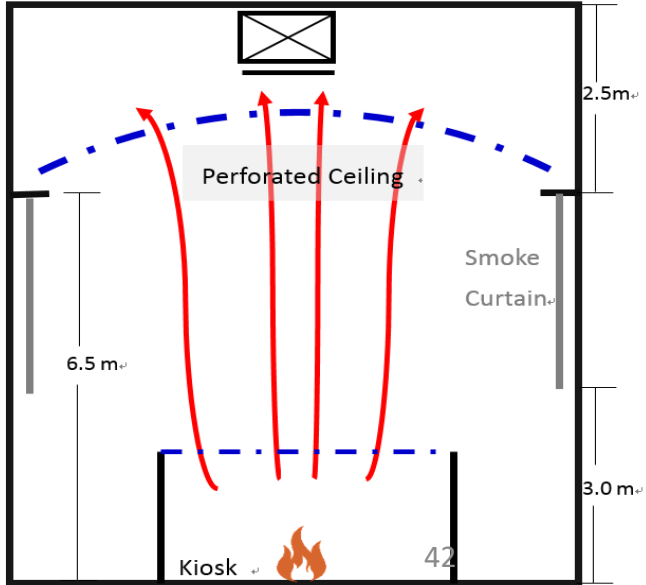
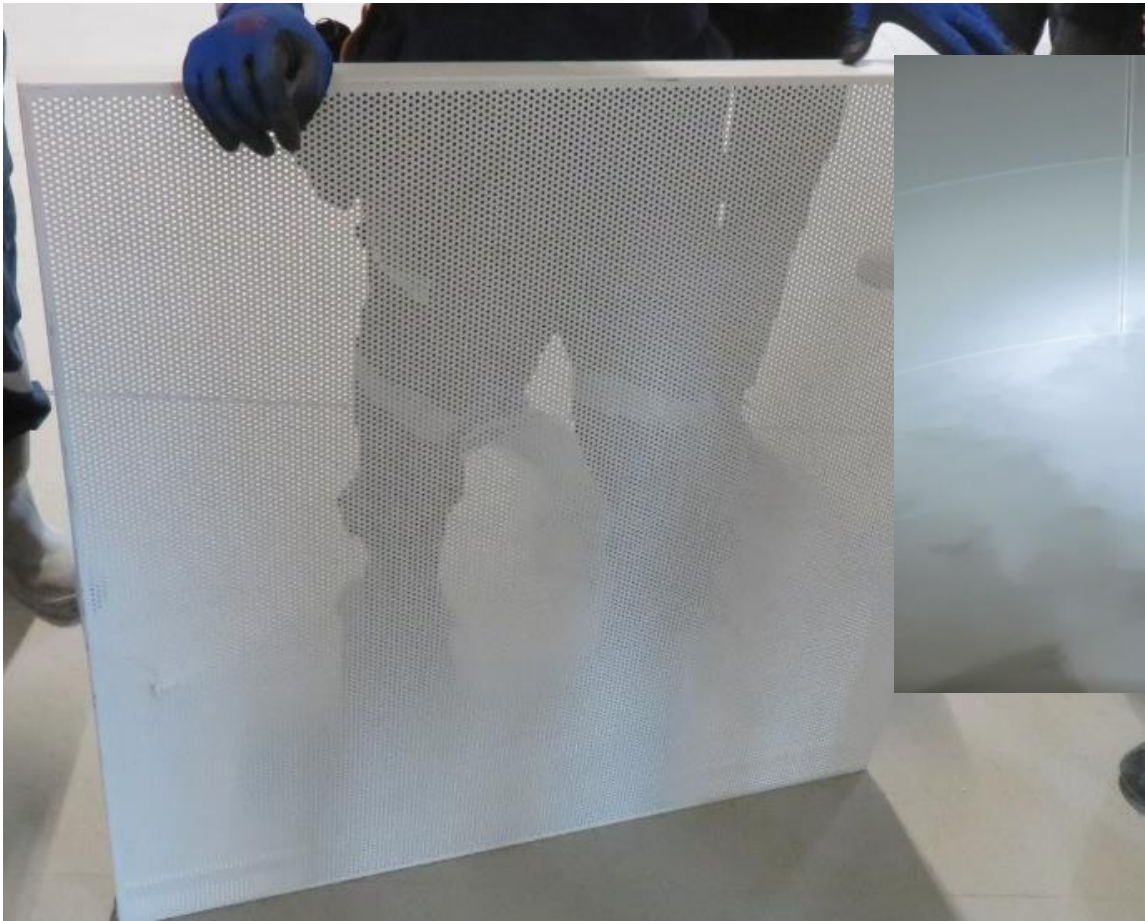


Smoke curtain failed to contain smoke ✘



Prevention of smoke spread by smoke curtain

Reduction of smoke extraction effectiveness by perforated ceiling



Failure in Operation of Motorized Fire & Smoke Damper



Motorized Fire & Smoke Damper failed to operate effectively during the test

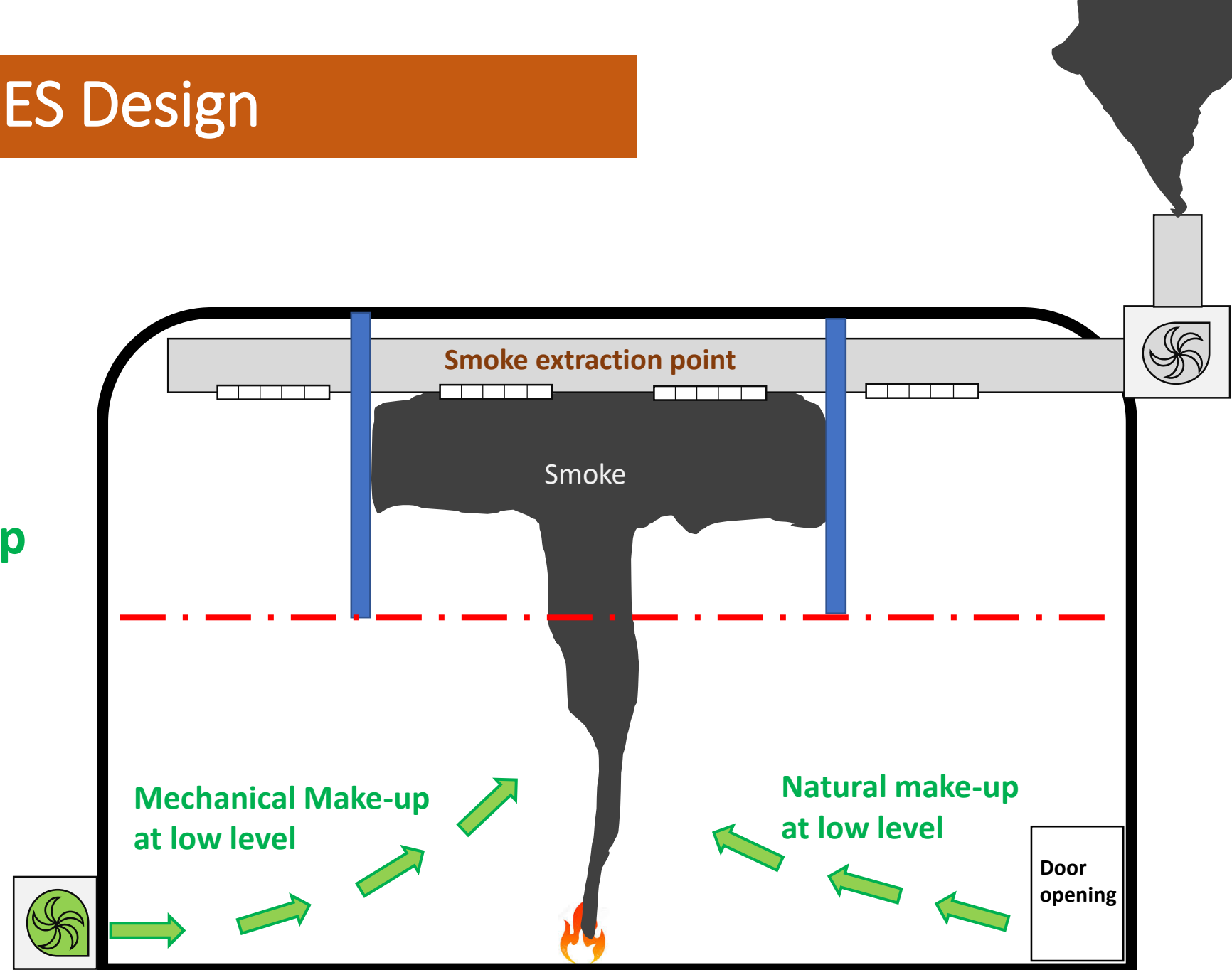
Critical points in SES Design

① Containment of smoke by smoke curtains

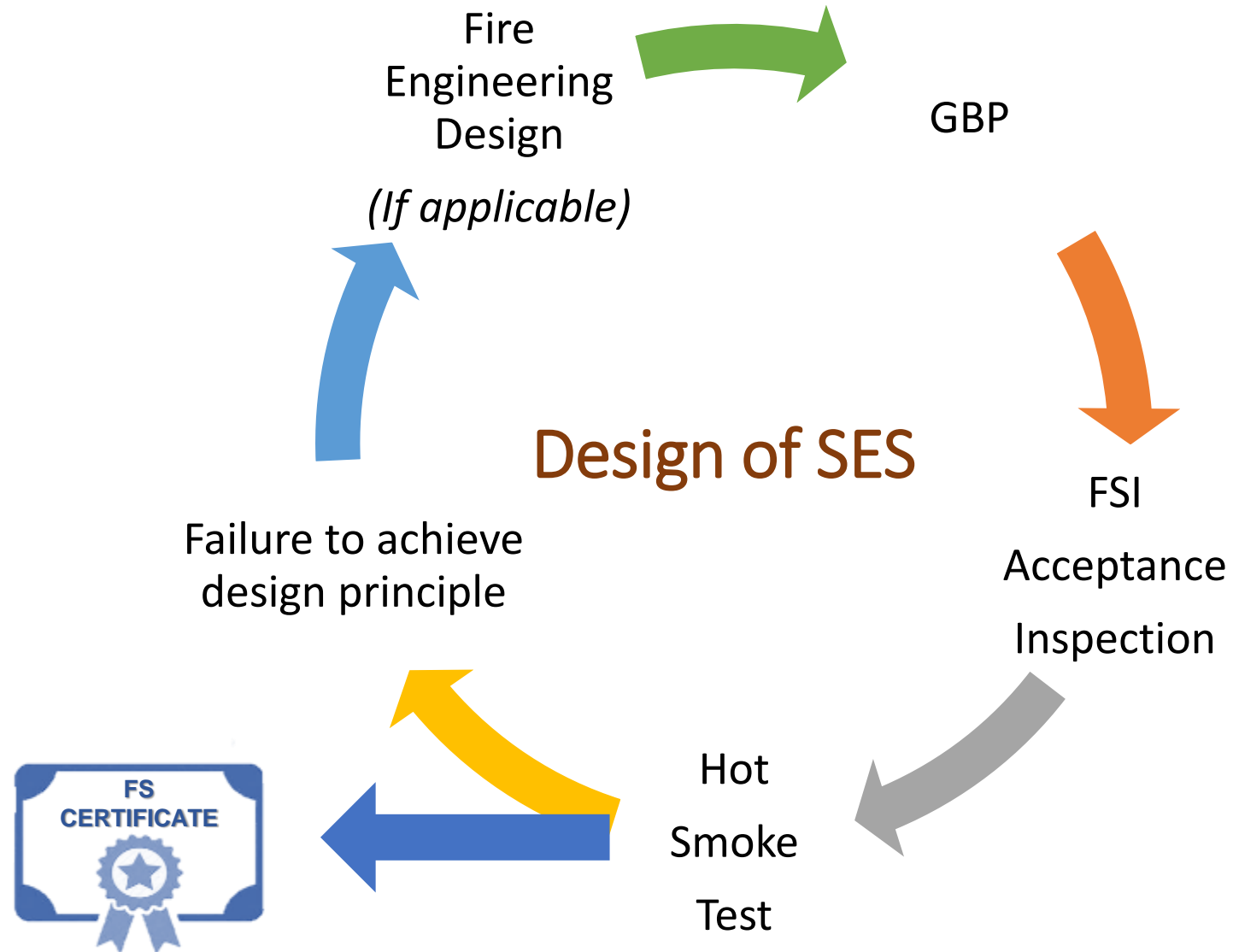
② Location of make-up

③ Distribution of extraction points

④ Smoke path



Critical points in SES Design



To sum up

- Collaboration between FSD and the Trade to enhance the efficiency of FSI Acceptance Inspection
- Shared key points to be observed in the design and acceptance of SES
- Hot Smoke Test provides a practical means to verify the performance of SES, particular for those designed by computational simulation

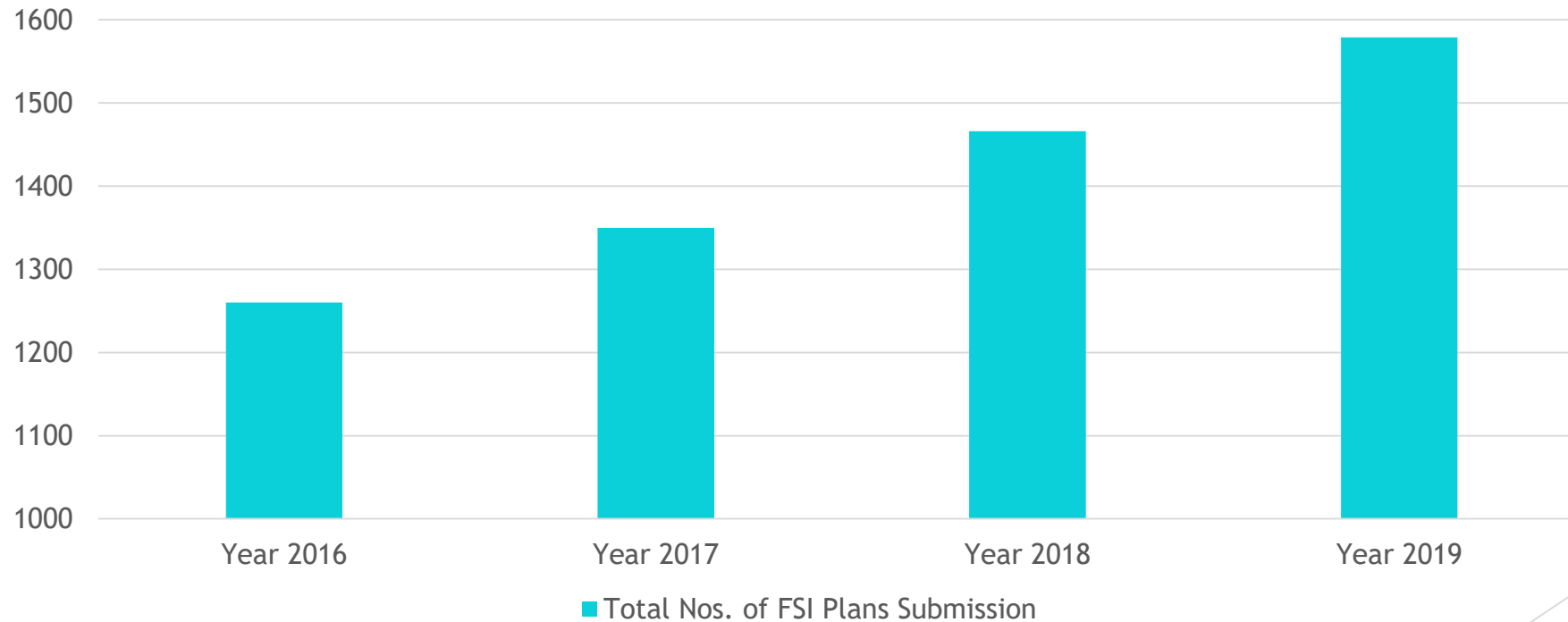
Thank you

FSIC's performance on FSI drawing submissions under statutory buildings improvement works (with Case Study)

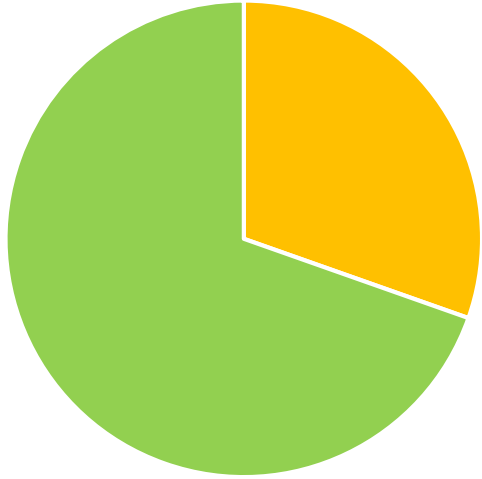
Engineer(BI)1
Ir FAN Kai-yip, Ivan

Statistics on FSI plans submissions under FSI/314B and FSI/314C

Total Numbers of FSI Plans Submission

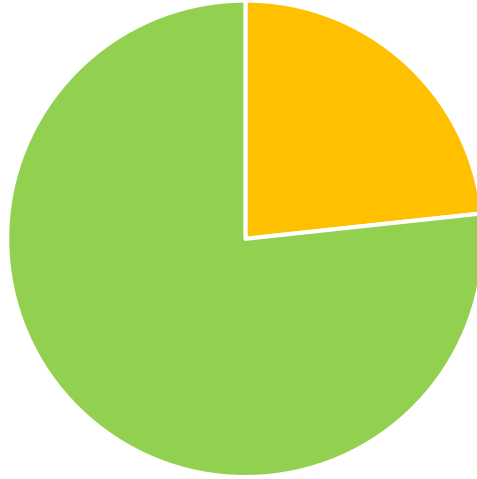


Year 2016



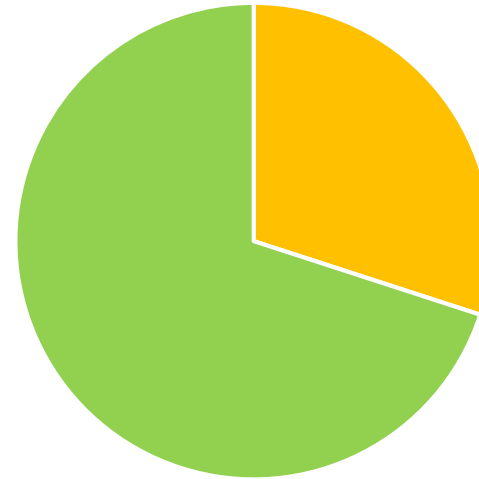
■ Approved ■ Rejected

Year 2017



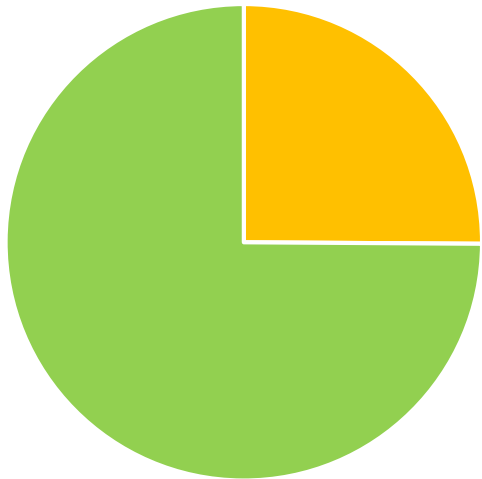
■ Approved ■ Rejected

Jan - June 2020



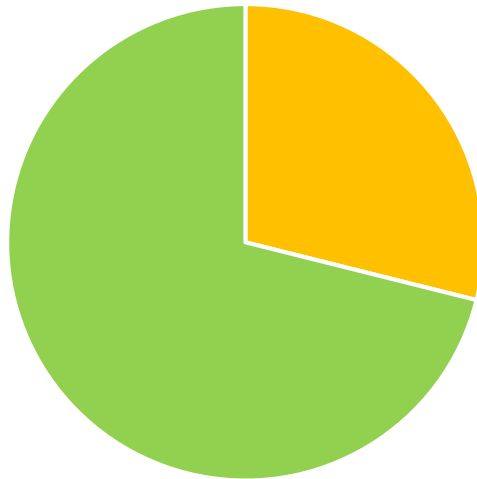
■ Approved ■ Rejected

Year 2018



■ Approved ■ Rejected

Year 2019



■ Approved ■ Rejected

**Average Approval Rate
23 to 30%**

Observations on the Form FSI/314B and FSI/314C Submissions

- ① Incomplete Form FSI/314B and 314C
- ② Outstanding Submission documents
- ③ Improper Design on Fire Service Installations

Incomplete Form FSI/314B and 314C

QR Code for
Form FSI/314B



QR Code for
Form FSI/314C



Print Save Clear

FSI/314C

To: Director of Fire Services
(Attn: Building Improvement Division) * 1 / 2-

Fire Service Installation Plans for
*Composite Building / Domestic Building at

ABC Mansion, 123 Hennessy Road,
Wanchai, Hong Kong



Fire Safety (Buildings) Ordinance (Chapter 572)

(Section 5)

Fire Safety Direction

Direction No. : FSD/FSDn /1234/2020
Our Ref. No. : (123) in FP 56/1234 «Part

To: The Incorporated Owner of ABC Mansion
G/E, ABC Mansion, 123 Hennessy Road, Wanchai, Hong
Kong

This is to certify that the details and specifications of all installations shown in the attached fire service installation plans are as prescribed by the Fire Services Department under the Fire Safety (Buildings) Ordinance and in accordance with the relevant Rules and Codes of Practices, as may be applicable, e.g.:

- * Rules of Loss Prevention Council for Automatic Sprinkler Installation
- * ~~Fire Offices' Committee for Automatic Sprinkler Installation (29th Edition)~~
- * Code of Practice for Minimum Fire Service Installations and Equipment, Fire Services Department

Full Name of FSI *Contractor/Consultant: ABC Fire Engineering Limited

Contact Person: CHAN Tai-man

Address: 8/F, ABC Building, 1234 King's Road,
North Point, Hong Kong

Tel.: 9876 5432

Signed: Chan Tai Man Date: 1/12/2020



1. TAKE NOTICE that the building at ABC Mansion, 123 Hennessy Road, Wanchai, Hong Kong

is a composite building within the meaning of Section 3(1) of the Fire Safety (Buildings) Ordinance (the Ordinance). Pursuant to Section 5(2)(a)(i) of the Ordinance, the Director of Fire Services hereby direct you, as the owner of

Common Mistakes:

1. No company chop / signature
2. Address not consistent with Fire Safety Direction (FSDn)
3. Do not cross out the appropriate code
4. The submitted Form FSI/314C is not updated

* To be deleted as appropriate

Outstanding Submission Documents

Sample of Authorization Letter

About (Address): ABC Mansion, 123 Hennessy Road, Wanchai, Hong Kong

FSD / Ref: (123) in FP 56 / (1234)

Direction No.: FSD / FSDn / (123) / (2020)

Dear Sir / Madam,

The Incorporated Owners
of ABC Mansion

~~*I (Authorized Person) / *We (Incorporated Owners)~~

hereby nominate ~~*Name of Consultants:~~

*Name of RFSIC: ABC Fire Engineering Limited

on behalf of the above building to comply with the Fire Safety Direction and coordinate the following matters:	
Application for the Extension of Time to the Fire Safety Director to Fire Services Department	<input checked="" type="checkbox"/>
Submission of Fire Service Installations plans (FSI/314) to Fire Services Department	<input checked="" type="checkbox"/>
Commencement of FS improvement works within the building boundary	<input checked="" type="checkbox"/>
To allow fire service installations and equipment inside individual units (Non-Domestic portion) of the building to be integrated with those fire service installations and equipment in other parts of the building	<input checked="" type="checkbox"/>
To raise any enquiry to Fire Services Department	<input checked="" type="checkbox"/>

*Name of Authorized Person CHAN Tai-man

*Signature of Authorized Person CHAN Tai-man

*Name of the responsible person of I.O./Owner Lee Siu-ming

*Signature of the responsible person of I.O./Owner Lee Siu-ming

Date 1 / 12 / 2020

*Chop of I.O.



*請刪去不適用者

Common Mistakes:

1. No Chop / Signature
2. 3 sets of FSI drawings with 2 set in colour
3. Original Authorization Letter (Copy is not preferable)
4. Name of the Owner shown in an Authorization Letter was deviated from those shown in FSDn
5. Consent letter from the I/O or owners for the installations of FSI equipment passing through the private owners areas / carry out extra F.S. improvement works other than the requirements of FSDn.

Sample of Consent letter

* I/We WONG Tai-ming (~~*incorporated owners / owner / owner's representative / occupier / occupier's~~

~~representative of the above premises~~), hereby have no objection to Install F.S pipe route

(#Type of Fire Services Installations (FSIs)) at the Shop 1 on Ground Floor

(@Location of FSIs) in accordance with the FSI plans submitted under the cover of FSI/314 (*B/C) dated

1 / 12 / 2020

Signature/Chop :

WONG Tai-ming

53

Tel. : 6123 4567

Date : 1 / 12 / 2020

Outstanding Submission Documents

列印 Print 重設 Reset 儲存 Save

申請批准建築工程及/或街道工程圖則及製備圖則證明書
Application for Approval of Plans of Building Works and/or Street Works and Certificate of Preparation of Plans
(建築物條例) (第123章) 第14(1)(a)條 建築物(管理)規例第29條
Buildings Ordinance (Chapter 123) Section 14(1)(a) Building (Administration) Regulations 19A & 29

表格編號 Form No. **BA5**

- 呈交表格時須附上圖則。
- 請以正楷填寫，並在適當方格內加上「√」號，填寫前，請細閱《注意事項》。
- **Submit this form with plans accompanied.**
- Read the "Matters to Note", complete in BLOCK LETTERS and tick the appropriate boxes.

致建築事務監督 To the Building Authority

甲部 申請批准圖則
Part A Application for Approval of Plans

由申請人填寫
To be completed by the applicant

1 工程及要求批准的圖則資料 Details of the Works and the Plans to be Approved

本人/我們現根據《建築物條例》第14(1)(a)條及《建築物(管理)規例》第29條的規定，提出申請，要求批准位於下述地址及地段編號的地盤進行的工程而隨本表格提交的圖則。

地盤地址 Address of Site

工程類別 Type of Works

建築工程 Building works 街道工程 Street works

要求批准的圖則類別 Type of Plans to be Approved

地段編號 Lot No.

地段編號 Lot No.

2 申請人的資料 Details of the Applicant

中文姓名 Name in Chinese

① 姓氏先行 Surname first

通訊地址 Correspondence Address

英文姓名 Name in English

① 姓氏先行 Surname first

聯絡電話 Contact Tel. No.

傳真號碼 Fax No.

身份證明 (任擇其一) Identification (Choose one)

香港身份證號碼:

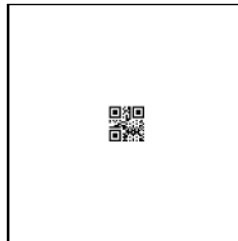
HKID No.:

商業登記號碼:

Business Registration No.:

① 如有多位申請人，請另加紙張填寫，並在每頁加蓋及註明日期的圖章。隨本表格一併提交。請註明附加頁數。
For more than one applicant, please attach additional sheet(s) which must be signed and dated and submit together with this form. Please state no. of sheet to be attached.

附加頁
Additional 張
Pages



BA5 (03/2019) - P.1/3

水務署
Water Supplies Department
香港灣仔告士打道七號入境事務大樓43樓
43/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

電子郵遞 e-mail wsdinfo@wsd.gov.hk 電話 Telephone 2802 7333

傳真號碼 Facsimile 2802 7333

客戶諮詢編號:

先生/女士:

可行性消防供水

有關 貴公司於 [] 函件編號: [] 一事，本署已於 [] 反對敷設一段臨時上址作消防用途。該區的最低水壓為300千帕斯卡。供水將由位於 [] 連樓宇西南面現有普仁街之直徑150毫米政府 [] 而該水管 [] 兩端入水，其供水在制水期間會受制水影響。供水的來源是雅賓利食水 [] 其最高蓄水位為主水不基準對上116.479米。請注意，你的樓宇的消防 [] 最高靜水水壓，可按該配水庫的最高蓄水位作出估計，但日後該水庫 [] 改變，該水壓亦會隨之改變。為此，現建議你依據最低水 [] 進行 [] 管設計。再者，本署不能保證供水不會中斷。現附上標明現有 [] 的圖則乙份，以供參考。

請留意，自 [] 零八年四月一日起，在新設或現有供應區的新發展項目上，又或在現有供應區的發展項目上，向水務監督第一次遞交水管工程計劃，最低剩餘水壓降低至200千帕斯卡。但為使所有現存大廈和按現行水壓而設計的(消防用)臨時花園系統有充足的供水，我們都會繼續維持最少有300千帕斯卡的剩餘水壓，除了在供應區的盡頭外。

請先向消防處遞交建議的消防供水系統詳情及垂直水管路線圖，待該處審核和同意後，才交由本署批核。此外，亦請盡快通知本署所需的消防供水駁喉尺寸。

在設計上，凡使用政府總水管供水的消防裝置，均須與建築物內其他供水系統完全分開。

請注意，若有關系統可由第二水源供水，則兩水源之間須有空氣分隔裝置，以免出現第二水源污染政府總水管供水的情況。又請注意，消防供水系統的製造商/設計者，須負責確保該系統符合有關消防處對流量及水壓的規定。

... / 2

Checklist for Major Defects of FSI Drawings Submission under Cap. 502 / Cap. 572

QR Code for Checklist for Major Defects



BI/FSI/01

根據香港法例第 502 或 572 章消防裝置圖則審批核對表

Checklist for Major Defects of FSI Drawings Submission under Cap 502 / Cap 572

檔號 File Ref : () in _____

地址 Address : _____

A 部 證明文件

Part A Supporting documents

(1)	須提供業主立案法團／業主就遞交消防裝置圖則的同意書／聘用書／提名信 Consent / Employment / Nomination letter from the Incorporated Owner (I.O.) / Owner(s) for FSI submission shall be provided	[]
(2)	須在 FSI/314B 或 FSI/314C 表格上提供完整而準確的資料(即項目地址、公司名稱、公司印章、簽署.....等) Complete and accurate information on Form FSI/314B or FSI/314C (ie. Project address Company name, Company Chop, signature....) shall be provided	[]
(3)	如適用，須提供由認可人士提交的結構評估報告 Structural Appraisal Report (SAR) by Authorized Person shall be provided; if applicable	[]
(4)	其他 Others :-	[]

BI/FSI/01

B 部 消防裝置圖則的一般要求

Part B General requirement in FSI drawings

(1)	須提供準確的圖則清單／樓宇位置及平面圖／圖例／消防註釋及其消防裝置的狀況與準則 (現有／新安裝部分) Accurate drawing List / Location & Block Plan / Legend / Fire Services Notes with status criteria (existing / newly installed portions) shall be provided	[]
(2)	任何不包括在所遞交圖則內的樓宇範圍／部分，須以影線或陰影顯示並加上說明 Any areas / portions of the building not included in your submission shall be hatched or shaded with description	[]
(3)	消防裝置圖則與消防安全指示／已獲批准的建築圖則不符 FSI drawings do not tally with Fire Safety Direction / approved general building plan	[]
(4)	消防註釋與消防裝置圖則不符 FS notes do not tally with FSI drawings	[]
(5)	須提交 3 套圖則，其中至少 2 套須要著色 Three (3) sets of drawing shall be submitted with at least 2 sets in colour	[]
(6)	須依從消防處通函第 4/96 號的規定圖則比例和顏色代碼。而現有消防裝置須以虛線顯示 Drawing scale and colour codes shall be provided in accordance with FSD Circular Letter No. 4/96. The existing FSI works to be shown in hidden lines.	[]
(7)	里和遞交的消防裝置圖則明顯未經修訂，或未有依據上次遞交時所獲的意見，相應更改 FSI plan resubmission is obviously not amended or without incorporating the comments made in previous submission	[]
(8)	須整合整棟樓宇的消防裝置。如適用，須提供整套消防裝置 (包括樓宇住宅和非住宅部分)，或在消防裝置圖則上標示每個整合點 FSI(s) for the entire building is required to be integrated. Full set of FSI(s) including domestic and non-domestic portions of the building shall be provided or any integrated point(s) to be marked on FSI drawings if applicable	[]
(9)	文字和符號難以閱讀 (字體／符號過小，或文字／符號與圖則的色彩對比過低) Text and symbols are not readable (size of font/symbol is too small / low colour contrast between text/symbols and the drawing)	[]
(10)	其他 Others :-	[]

Document Checklist for FSI/314C Submission

		Submitted
(a)	Authorization Letter from Owner(s) / The Incorporated Owners	<input type="checkbox"/>
(b)	If the design of the Fire Service Installation Plans plan involving fire safety improvement works in private areas , authorization letter(s) from the owner(s) of the individual unit(s) is / are required	<input type="checkbox"/>
(c)	Copy of “Letter for Application for Improvement to the Fire Service (FS) Installations Special Approval for FS Tank Capacity”(if any)	<input type="checkbox"/>
(d)	In case of Improvised Sprinkler System or Improvised Hose Reel System (Direct Feed Type), copy of the letter on the minimum residual pressure issued by Water Supplies Department	<input type="checkbox"/>
(e)	Copy of approval letter for all associated building works under the Fire Safety Improvement works from Buildings Department	<input type="checkbox"/>
(f)	Schematic Piping Diagram for Sprinkler System	<input type="checkbox"/>
(g)	Schematic Piping Diagram for FH/HR System	<input type="checkbox"/>
(h)	Copy of Periodic Test Certificate (Form WR2) with Schematic Wiring Diagram issued by EMSD (if necessary)	<input type="checkbox"/>
(i)	Schematic Power Supply Diagram for the Fire Safety Improvement Works	<input type="checkbox"/>
(j)	Structural Appraisal Report (SAR) submitted by Authorized Person (if necessary)	<input type="checkbox"/>

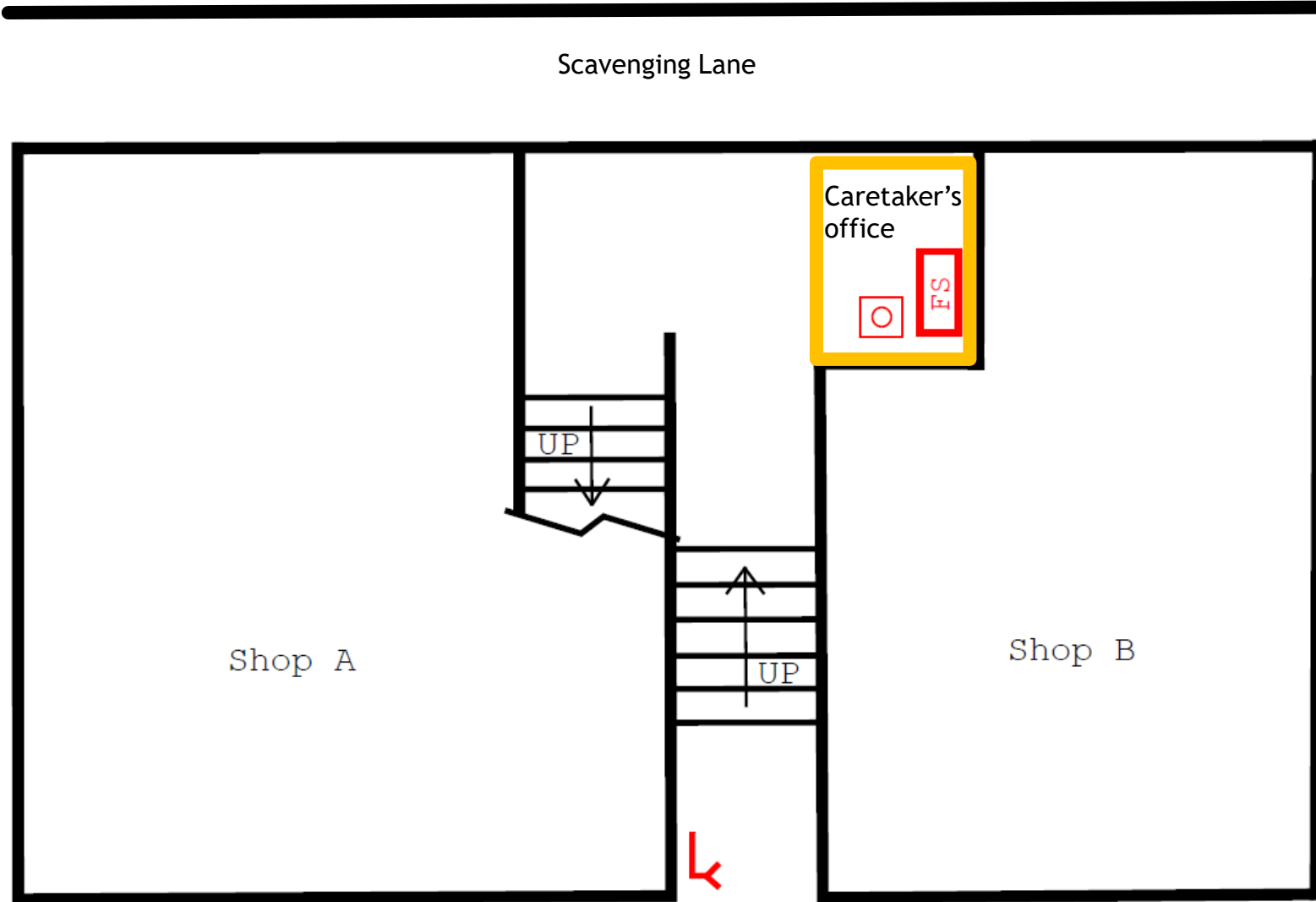
Improper Design on Fire Service Installations

- ① Fire Hydrant / Hose Reel System
- ② Sprinkler System / Improvised Sprinkler System
- ③ Manual Fire Alarm System
- ④ Automatic cut-off device for mechanical ventilation system

Fire Hydrant / Hose Reel System and Sprinkler system

- ① Location of FS / sprinkler Inlet
- ② Location of hose reel
- ③ Upgrading of electrical installations for standby fixed / intermediate booster fire pumps

Location of FS/ Sprinkler Inlet and F.S. Control panel



Legend:



FS/Sprinkler Inlet



F.S. Control Panel

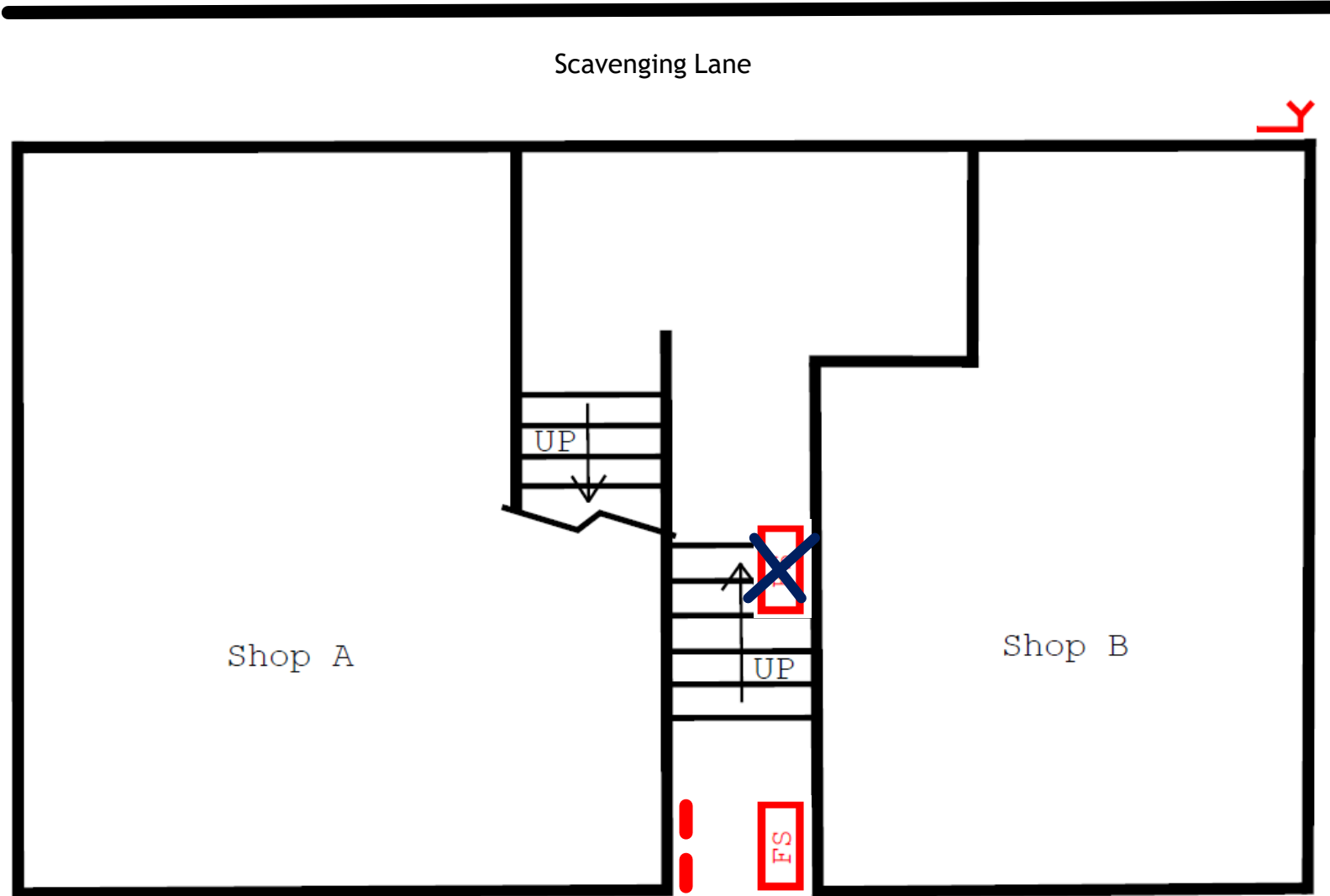


Manual fire alarm call point



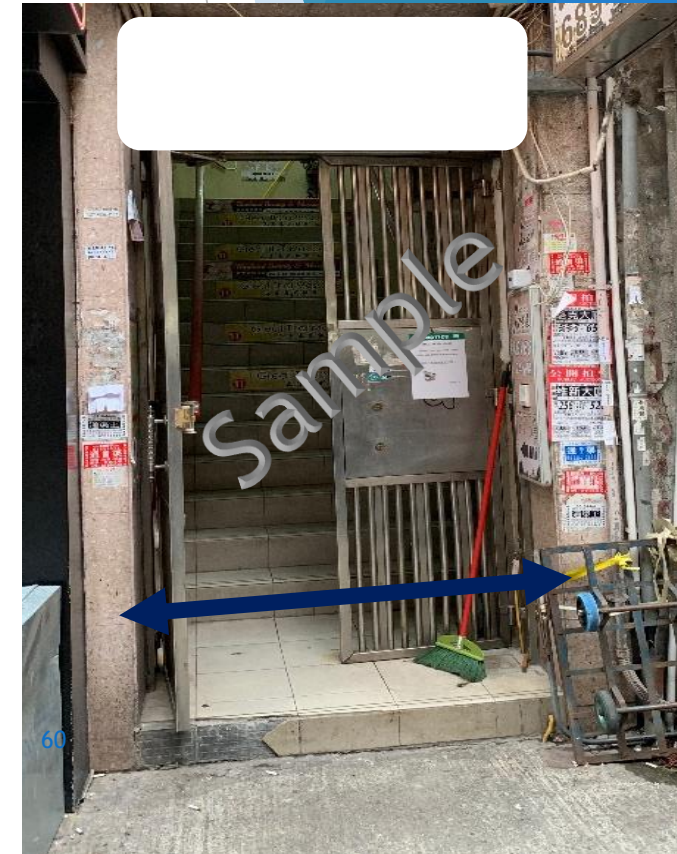
Indication plate showing the location of sprinkler inlet and sprinkler control valve

Location of FS/ Sprinkler Inlet and F.S. Control panel

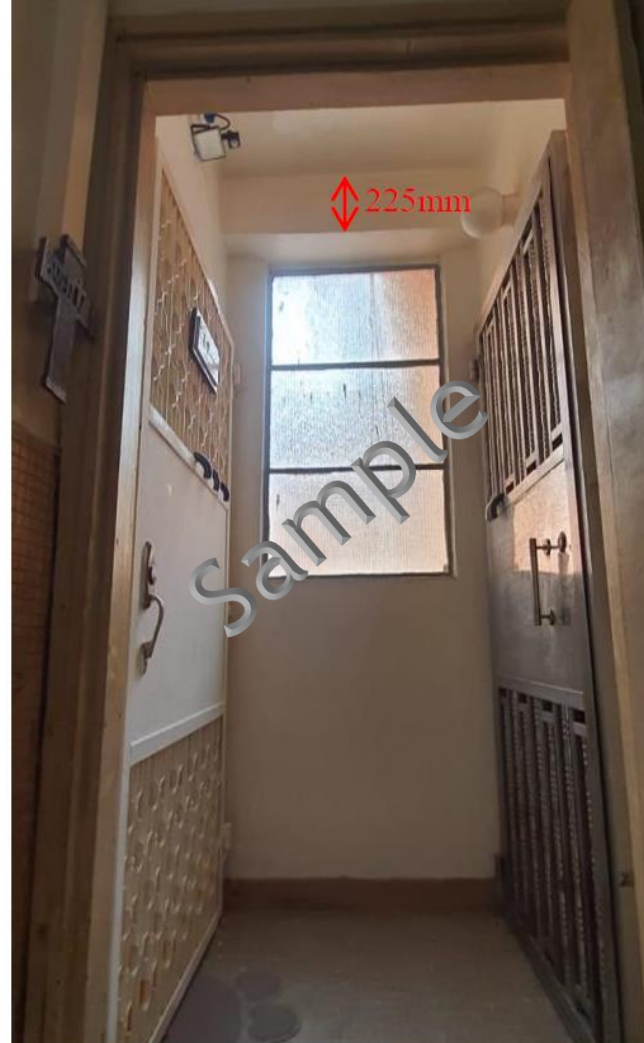


Justification of spatial constraints to install the FS inlet at main entrance shall be provided.

For example: Site Photo with measurements.



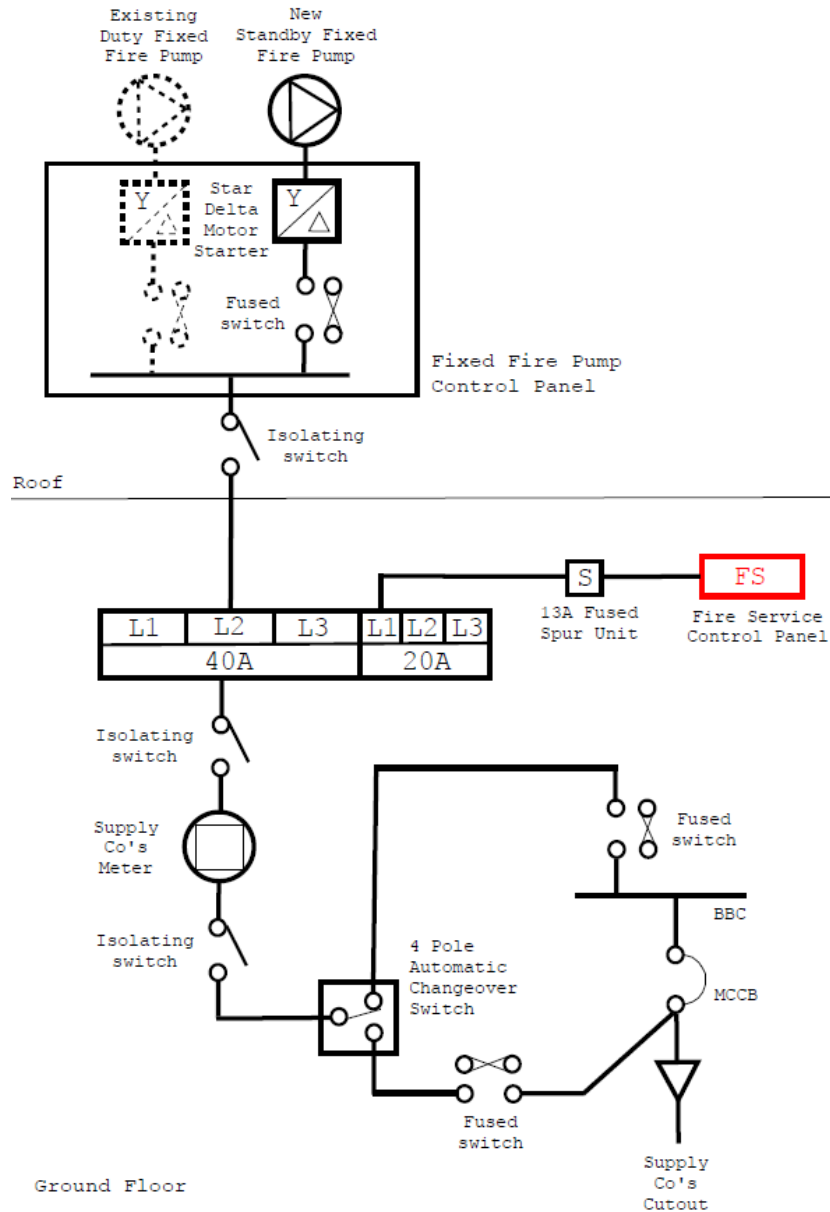
Location of hose reel



Justification of spatial constraints to install the hose reel at the smoke lobby shall be provided.

For example: Site Photo with measurements

Upgrading of Electrical Installations














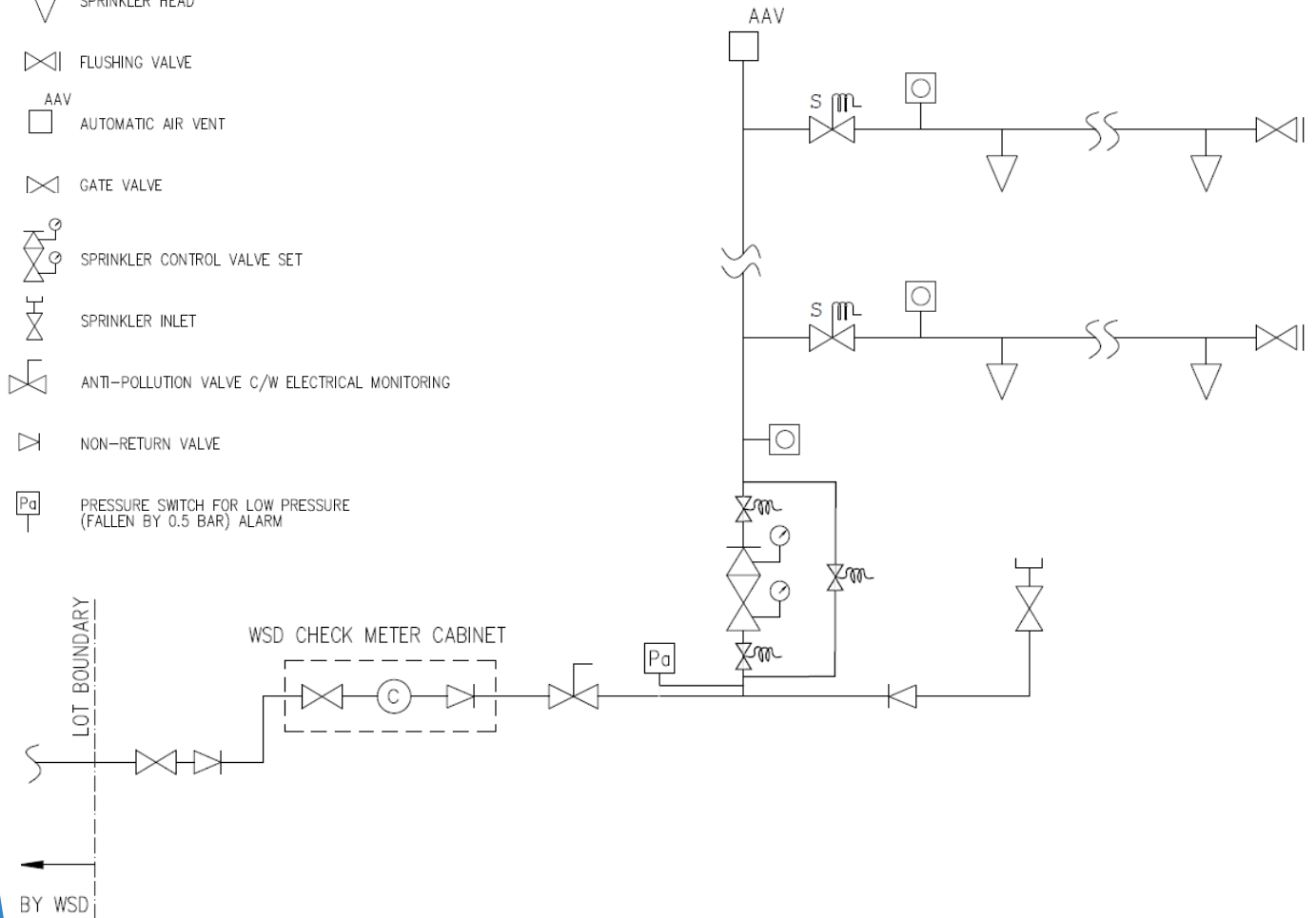
Common Mistakes:

- 1.No discrimination between protection devices of final, sub-main and main circuits.
- 2.Non-fire resisting cables for fixed fire pumps set and F.S. control panel
- 3.Current carrying capacity for the existing power supply circuits is less than the circuit design current of new standby fixed fire pump
- 4.Incorrect rating of protection devices, size and category of cable

Improvised Sprinkler System (Direct Town's Main Connection)

LEGEND :

-  FLOW SWITCH
-  ZONE SUBSIDIARY STOP VALVE
C/W ELECTRICAL MONITORING
-  SPRINKLER HEAD
-  FLUSHING VALVE
-  AAV
AUTOMATIC AIR VENT
-  GATE VALVE
-  SPRINKLER CONTROL VALVE SET
-  SPRINKLER INLET
-  ANTI-POLLUTION VALVE C/W ELECTRICAL MONITORING
-  NON-RETURN VALVE
-  PRESSURE SWITCH FOR LOW PRESSURE
(FALLEN BY 0.5 BAR) ALARM



Common Mistakes:

1. Incorrect hydraulic calculation
2. Inappropriate location of anti-pollution valve
3. Inappropriate zoning of subsidiary valve

zoning of

Case Sharing on Incorporation of the Fresh Water Supply System into the Fire Hydrant / Hose Reel System

► Case Study (Example 3)

消防處
消防安全總區

香港九龍尖沙咀東部康莊道一號
消防處總部大廈七樓



FIRE SERVICES DEPARTMENT
FIRE SAFETY COMMAND
7th Floor, Fire Services Headquarters Building
No. 1 Hong Chong Road
Tsim Sha Tsui East, Kowloon
Hong Kong

本處檔號 **OUR REF.:** (34) in FSD FSC GR 13-314/07 IV
來函檔號 **YOUR REF.:**
圖文傳真 **FAX:** (852) 2312 0376
電 話 **TEL. NO.:** (852) 2170 9595

27 September 2017

To: Recipients of FSD Circular Letters

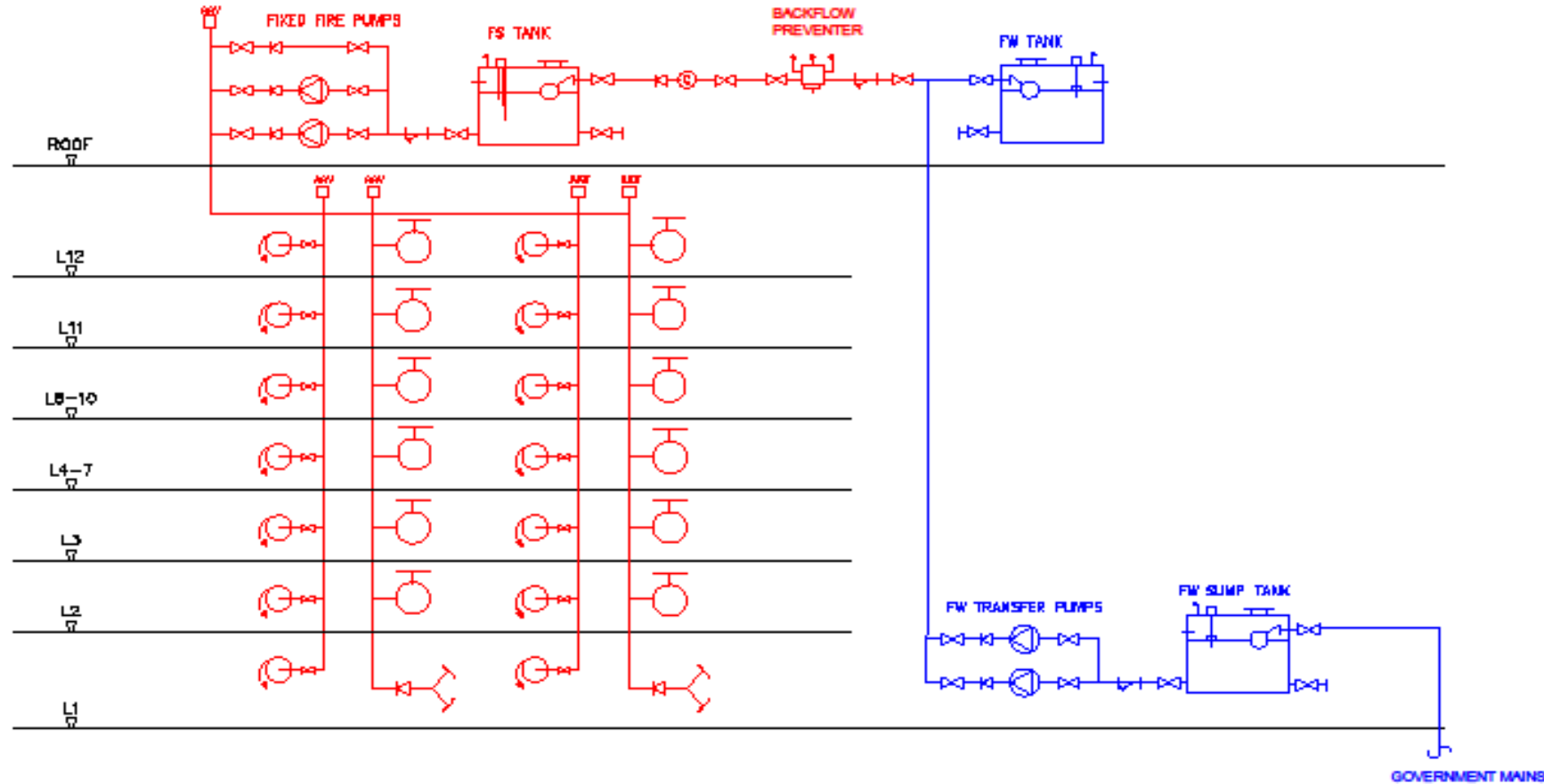
Dear Sirs/Madams,

FSD Circular Letter No. 3/2017
**Part I: Reduced Supply Tank Capacity Requirement for
the Fire Hydrant/Hose Reel System; and**
**Part II: Pilot Scheme on the Incorporation of the Fresh Water Supply System into
the Fire Hydrant/Hose Reel System
in Connection with the Enforcement of
the Fire Safety (Buildings) Ordinance, Cap. 572, Laws of Hong Kong**

FSD Circular Letter No.3/2017 64

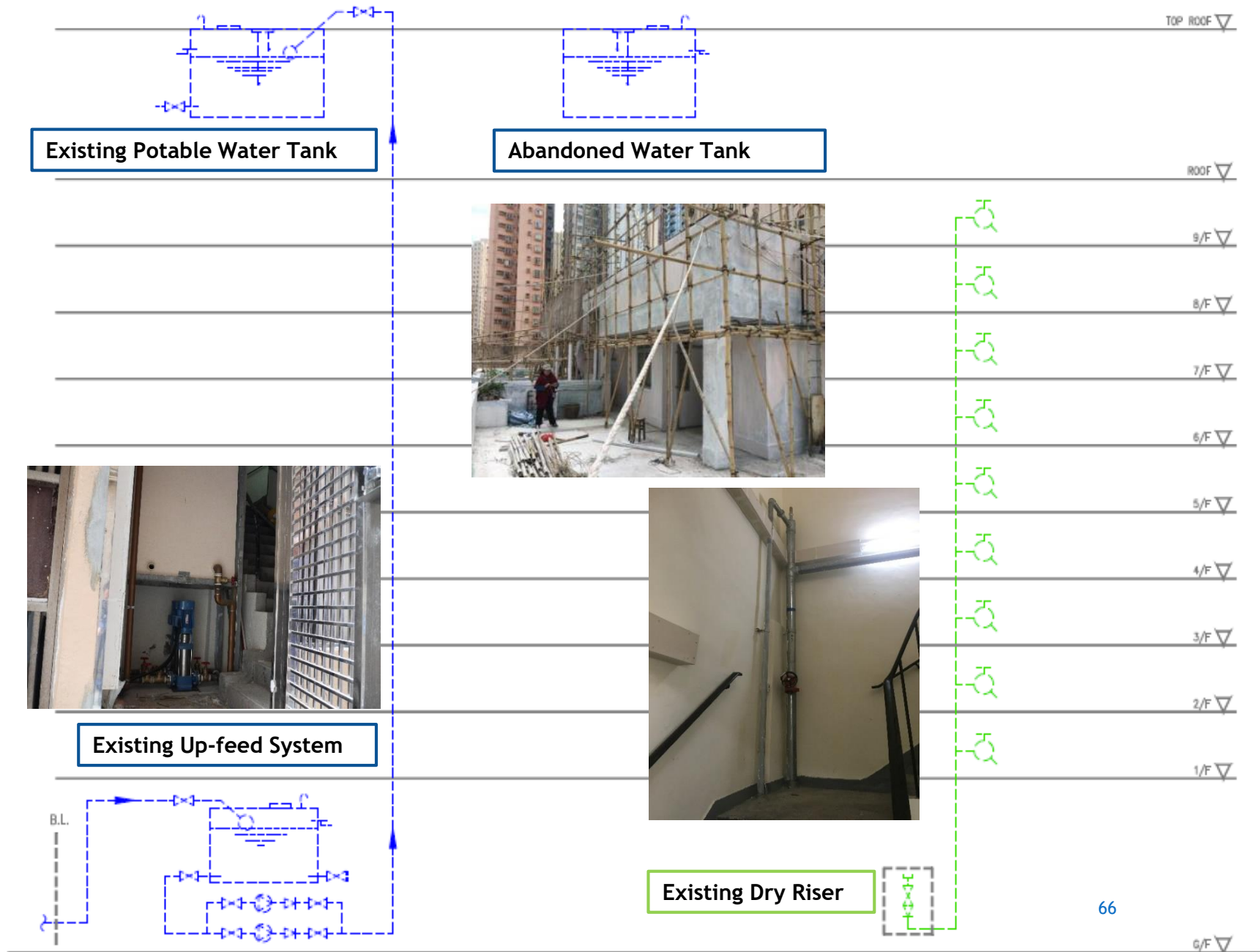
Remarks: Applicable to Fire Safety (Buildings) Ordinance, Cap. 572

Case Study (Example 3)



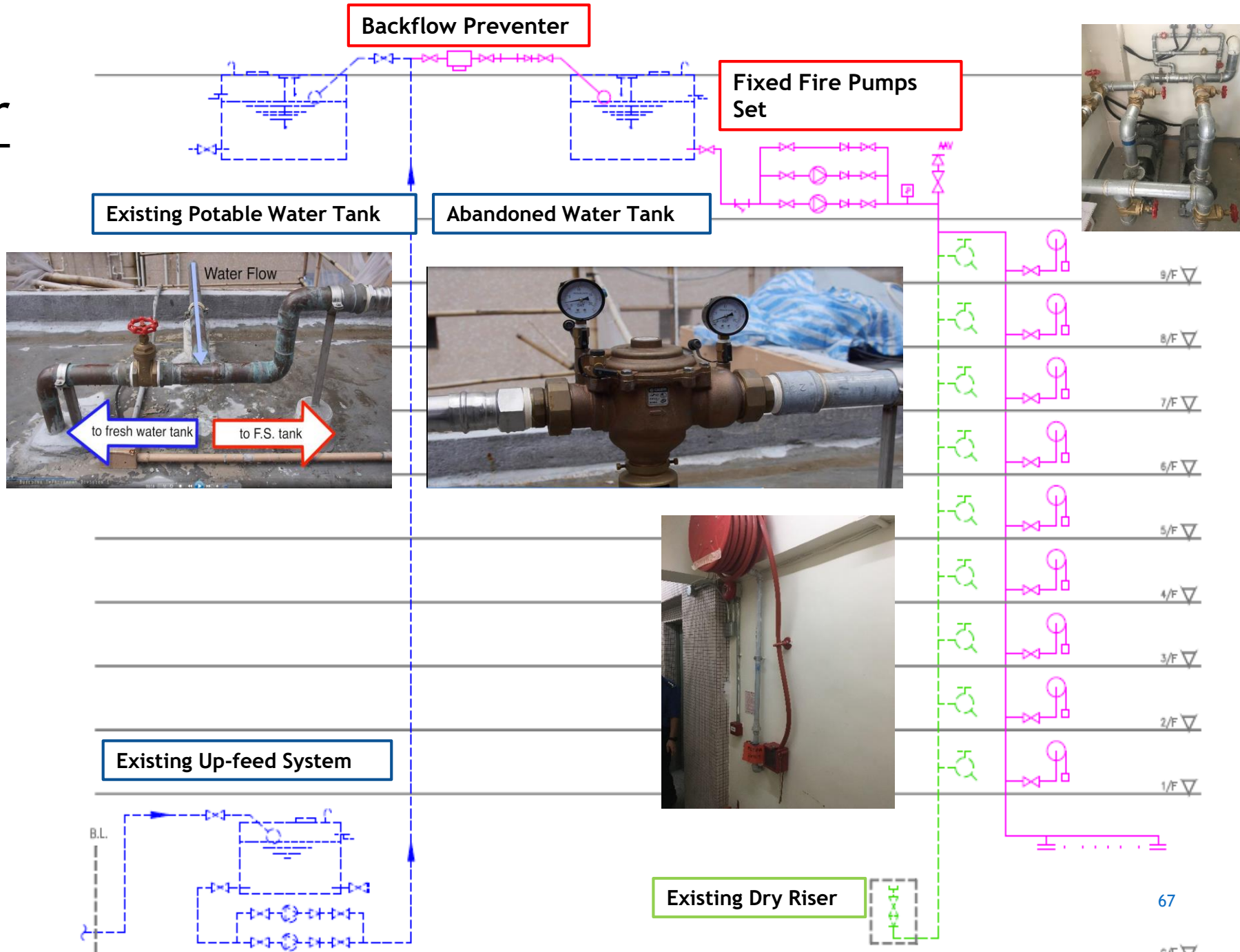
Example 3 - Fire Hydrant/Hose Reel System for 7 storeys or above or over 20 m in height
(Water supply to FS water by making additional branch from the original upfeed water pipe of the fresh water system, provided that the fresh water supply system is of a sump and pump design) 65

Before



Remarks: Applicable to Fire Safety (Buildings) Ordinance, Cap. 572

After



Remarks: Applicable to Fire Safety (Buildings) Ordinance, Cap. 572

Thank You

Revised Procedure for Reporting FSI Shutdown



**Licensing and Certification Command
Fire Service Installations Task Force
Senior Station Officer
KWAN Lut-wang**

Objectives of Revision



Improve Building Fire Safety



Streamline Submission Procedures



Reduce Administrative Work



Optimise FS resources



Safeguard FSIC



Observations

Building Fire Safety

- ➔ Current reporting procedure Circular Letter 3/2008
- ➔ Licensed / registered premises information in SDN
- ➔ Cap. 502/572/636 information in SDN

Report of SDN

- ➔ Short-term and non-major FSI Shutdown

Submission Procedures

- ➔ FSI Shutdown period
- ➔ SDN Signatory

Resources Management

- ➔ Correlation between SDN and FS251



致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____

門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

- 消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響

上述消防裝置因以下法例要求進行消防安全改善工程

- 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內把相關 FS 251 副本送交本處**。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內把相關 FS 251 副本送交本處**。

註6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人



Refinement of SDN Scope

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

Short-term Cases

➔ FSI Shutdown for less than 24 hours and not overnight

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____

門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

消防栓/喉轆系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉轆系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響

安老/殘疾院舍 酒店/賓館
 幼兒中心 危險品倉
 戲院/劇院/公眾娛樂場所

上述消防裝置因以下法例要求進行消防安全改善工程

Cap. 502 消防安全(商業處所)條例
 Cap. 572 消防安全(建築物)條例
 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內把相關 FS 251 副本送交本處**。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內把相關 FS 251 副本送交本處**。

註6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人



Refinement of SDN Scope

- | | | | |
|-----------------------------------|-------------------------------|-------------------------------|--|
| <input type="checkbox"/> 消防栓/喉轆系統 | <input type="checkbox"/> 花灑系統 | <input type="checkbox"/> 乾喉系統 | <input type="checkbox"/> 火警偵測系統(存在休眠風險的處所) |
| <input type="checkbox"/> 火警警報系統 | <input type="checkbox"/> 噴水系統 | <input type="checkbox"/> 排煙系統 | <input type="checkbox"/> 樓梯增壓 <input type="checkbox"/> 街道消防栓系統 |

Revised Major System

- ➔ Fire Detection System of premises with sleeping risk
- ➔ Smoke Extraction System
- ➔ Pressurization of Staircase
- ➔ Dry Riser System

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____
門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉
 消防栓/喉轆系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統
註1：花灑系統不應與消防栓/喉轆系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響
 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註2：註冊消防裝置承辦商須確保消防裝置關閉 不超過 14 天 ，並於 14 天內把相關 FS 251 副本送交本處 。			

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註3：如需要延長關閉時間，註冊消防裝置承辦商須 提交相關 FS 251 及延期不超過 14 天 。			
註4：第二部份填寫人須為 合資格人士(QP) 或 獲授權簽署證書人士(AS) 。			
<input type="checkbox"/> 上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人			

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註5：註冊消防裝置承辦商必須於有關工程完成後的 14 天內把相關 FS 251 副本送交本處 。			
註6：第三部份填寫人須為 合資格人士(QP) 或 獲授權簽署證書人士(AS) 。			
<input type="checkbox"/> 上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人			



Refinement of SDN Scope

- | | | | |
|-----------------------------------|-------------------------------|-------------------------------|--|
| <input type="checkbox"/> 消防栓/喉轆系統 | <input type="checkbox"/> 花灑系統 | <input type="checkbox"/> 乾喉系統 | <input type="checkbox"/> 火警偵測系統(存在休眠風險的處所) |
| <input type="checkbox"/> 火警警報系統 | <input type="checkbox"/> 噴水系統 | <input type="checkbox"/> 排煙系統 | <input type="checkbox"/> 樓梯增壓 <input type="checkbox"/> 街道消防栓系統 |

Non-major System

- ➔ Emergency Generators
- ➔ Exit Signs

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____
門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時關閉**

- 消防栓/喉轆系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註 1：花灑系統不應與消防栓/喉轆系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響 上述消防裝置因以下法例要求進行消防安全改善工程

- 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內把相關 FS 251 副本送交本處**。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註 4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內把相關 FS 251 副本送交本處**。

註 6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人



Refinement of SDN Scope

註 1：花灑系統不應與消防栓/喉轆系統或火警偵測系統(存在休眠風險的處所)同時關閉

Critical Cases

➔ Sprinkler system and FH/HR or FDS in premises with sleeping risk shall not be shutdown simultaneously



SDN Information

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____

門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)

火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響

安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例

幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例

戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

上述消防裝置因以下法例要求進行消防安全改善工程

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註2：註冊消防裝置承辦商須確保消防裝置關閉 不超過 14 天 ，並於 14 天內 把相關 FS 251 副本送交本處。			

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註3：如需要延長關閉時間，註冊消防裝置承辦商須提交相關 FS 251 及延期 不超過 14 天 。			
註4：第二部份填寫人須為 合資格人士(QP) 或 獲授權簽署證書人士(AS) 。			
<input type="checkbox"/> 上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人			

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註5：註冊消防裝置承辦商必須於有關工程完成後的 14 天內 把相關 FS 251 副本送交本處。			
註6：第三部份填寫人須為 合資格人士(QP) 或 獲授權簽署證書人士(AS) 。			
<input type="checkbox"/> 上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人			

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註2：註冊消防裝置承辦商須確保消防裝置關閉 不超過 14 天 ，並於 14 天內 把相關 FS 251 副本送交本處。			

Correlation between SDN and FS251

➔ Relevant FS251 serial number is required when submitting SDN for commencement / extension / completion of FSI Shutdown.





SDN Information

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____

門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

- 消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響 上述消防裝置因以下法例要求進行消防安全改善工程

- 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內**把相關 FS 251 副本送交本處。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內**把相關 FS 251 副本送交本處。

註6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

以下持牌/註冊處所將會受到影響

- 安老/殘疾院舍 酒店/賓館
 幼兒中心 危險品倉
 戲院/劇院/公眾娛樂場所

Licensed / Registered Premises affected by FSI Shutdown

➔ RFSIC will indicate in SDN if the shutdown affect the premises.



SDN Information

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：
樓宇所屬消防局：

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____

門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

- 消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響 上述消防裝置因以下法例要求進行消防安全改善工程

- 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內**把相關 FS 251 副本送交本處。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須提交相關 FS 251 及延期**不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內**把相關 FS 251 副本送交本處。

註6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

上述消防裝置因以下法例要求進行消防安全改善工程

- Cap. 502 消防安全(商業處所)條例
 Cap. 572 消防安全(建築物)條例
 Cap. 636 消防安全(工業建築物)條例

Streamlining handling procedures of BI works & FSI Shutdown

➔ RFSIC shall indicate on SDN if the works are related to improvement works for old building under Cap 502 / 572 / 636.

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：_____
樓宇所屬消防局：_____

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____
門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

- 消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註 1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響 上述消防裝置因以下法例要求進行消防安全改善工程

- 安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內**把相關 FS 251 副本送交本處。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註 4：第二部份填寫人須為 **合資格人士(QP)** 或 **獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註 5：註冊消防裝置承辦商必須於有關工程完成後的 **14 天內**把相關 FS 251 副本送交本處。

註 6：第三部份填寫人須為 **合資格人士(QP)** 或 **獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人



Monitoring of FSI Shutdown

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			
填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____			
註 3：如需要延長關閉時間，註冊消防裝置承辦商須 提交相關 FS 251 及延期不超過 14 天 。			
註 4：第二部份填寫人須為 合資格人士(QP) 或 獲授權簽署證書人士(AS) 。			
<input type="checkbox"/> 上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人			

Restriction on FSI Shutdown Period (14 days)

➔ RFSIC shall critically review the case; any undue, arbitrary or deliberate delay of FSI repair works will be inquire into critically.

致：香港消防處
消防通訊中心
傳真號碼：2311 0066
填寫日期：_____

此欄由消防處消防通訊中心填寫
消防處檔案編號：_____
樓宇所屬消防局：_____

樓宇消防裝置關閉通知書

樓宇/屋苑名稱：_____ 地區：_____
門牌號數及街道名稱：_____ 香港 九龍 新界

註冊消防裝置承辦商：_____ 級別/編號：_____

本公司確認以下受影響的消防裝置需要**通宵或連續超過 24 小時**關閉

消防栓/喉嚨系統 花灑系統 乾喉系統 火警偵測系統(存在休眠風險的處所)
 火警警報系統 噴水系統 排煙系統 樓梯增壓 街道消防栓系統

註1：花灑系統不應與消防栓/喉嚨系統或火警偵測系統(存在休眠風險的處所)同時關閉

以下持牌/註冊處所將會受到影響 上述消防裝置因以下法例要求進行消防安全改善工程

安老/殘疾院舍 酒店/賓館 Cap. 502 消防安全(商業處所)條例
 幼兒中心 危險品倉 Cap. 572 消防安全(建築物)條例
 戲院/劇院/公眾娛樂場所 Cap. 636 消防安全(工業建築物)條例

第一部份 - 關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
開始關閉日期：_____			
預計完成日期：_____			
FS 251 編號(如有)：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註2：註冊消防裝置承辦商須確保消防裝置關閉**不超過 14 天**，並於**14 天內把相關 FS 251 副本送交本處**。

第二部份 - 延長關閉樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程需延期至：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

第三部份 - 恢復樓宇消防裝置	填寫人簽署	承辦商蓋印	消防通訊中心蓋印
工程完成日期：_____			
FS 251 編號：_____			

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註5：註冊消防裝置承辦商必須於有關工程完成後的**14 天內把相關 FS 251 副本送交本處**。

註6：第三部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人



Monitoring of FSI Shutdown

第二部份 - 延長關閉樓宇消防裝置

填寫人簽署

承辦商蓋印

消防通訊中心蓋印

工程需延期至：_____

FS 251 編號：_____

填寫人姓名：_____ 手提電話：_____ 公司電話：_____ 傳真號碼：_____

註3：如需要延長關閉時間，註冊消防裝置承辦商須**提交相關 FS 251 及延期不超過 14 天**。

註4：第二部份填寫人須為**合資格人士(QP)**或**獲授權簽署證書人士(AS)**。

上述已關閉的消防系統不再由本公司負責有關工程，本公司已把該系統的狀況詳細告知委聘人

Liability of SDN signatory

➔ AS/QP shall notify FSD and parties concerned without delay if the RFSIC is no longer employed for the works.

Important Guides



Practical

- ➔ Keep the disruption to the normal operation of the FSI caused by maintenance, modification or repair to minimum
- ➔ Adopt a systematic approach, i.e. shut down the FSI by sections and resumed normal as soon as practicable
- ➔ Refrain from shutting down the whole FSI system for a prolonged period of time
- ➔ Top-up the water tanks of the affected/unaffected FSI system prior the commencement of work

Important Guides



Administration

- ➔ Post simple and standardized graphical notices detailing the shutdown
- ➔ Ensure the residents/ occupants/ property management company has/have been notified of the shutdown information

Advantages



FSD

Essential information 

Holistic concern

Optimise FS resources




Public


Fire Safety 



Trade

Streamline works

Safeguard 

Record management 



Thank You





VOLUNTARY RECOGNITION SCHEME FOR FSI TRADE

VISION

To protect life and property of Hong Kong citizens in building fires

MISSIONS

- To raise the building fire safety level of Hong Kong
- To enhance the working order of building FSI
- To enhance the professional qualifications and performance standard of FSI maintenance practitioners

BENEFITS

- Uplift the professional image of FSI maintenance practitioners
- Breed and attract talents of the trade
- Establish recognition and assessment framework for the trade
- Promote Continuing Professional Development (CPD)

RECOGNITION REQUIREMENTS

Route 1

**Registered FSI
Skilled Workers**

**Registered
under the trade of
Fire Service Mechanics
of CWRO (Cap. 583)**

Route 2

**Experienced FSI
Workers**

**Over 10 years of
working experience in
FSI maintenance**

RECOGNITION REQUIREMENTS

**Registered FSI
Skilled Workers**

**Experienced FSI
Workers**

Enhancement Training

VALUE

KNOWLEDGE

SKILL

**FSD
recognition**



KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

Recognition Document

Quality Assurance

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

Renewal Requirements

- Validity Period of Recognition
- To complete designated hours of CPD for Recognition Renewal

Technical Advisory Board

Recognition Document

Quality Assurance

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

- Formed by Representatives from the trade, professional training institutes and Government Departments
- To formulate Recognition Requirements
- To identify training opportunities
- To oversee the administration of the Scheme

Recognition Document

Quality Assurance

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

- Formed by Representatives from the trade, professional training institutes and Government Departments
- To formulate Recognition Requirements
- To identify training opportunities
- To oversee the administration of the Scheme

Recognition Document

Quality Assurance

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

Recognition Document

- Recognition Certificate
- Registers of all recognized persons for public reference

Quality Assurance

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

Recognition Document

Quality Assurance

■ Code of Conduct and Performance Monitoring Mechanism

Appeal Mechanism

KEY ELEMENTS OF THE SCHEME

CPD and Renewal Requirements

Technical Advisory Board

Recognition Document

Quality Assurance

Appeal Mechanism

■ To be administered by the Advisory Board

PRINCIPLES OF THE SCHEME

- No contradiction with any legislations in effect
- No negative impact to business
- Equal opportunity for practitioners
- Flexibility of the Scheme

LAUNCHING OF ONLINE SURVEY

(1.12.2020 – 22.12.2020)

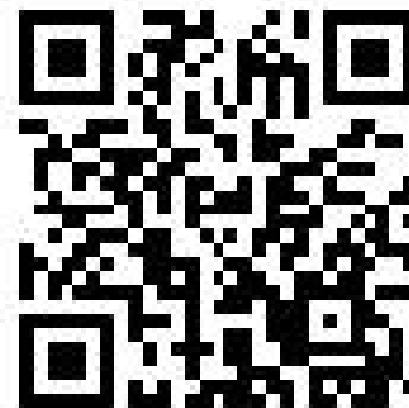
Survey 1

for RFSICs and other sub-contractors related to FSI maintenance works



Survey 2

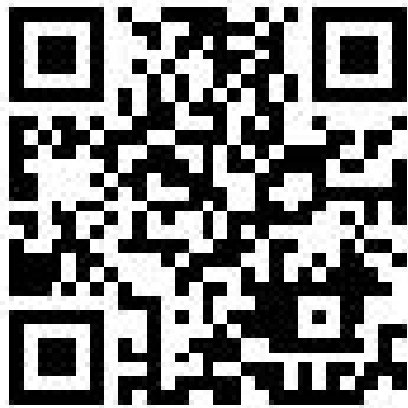
for FSI maintenance practitioners



EXTENSION OF SURVEY PERIOD TO 8.1.2021

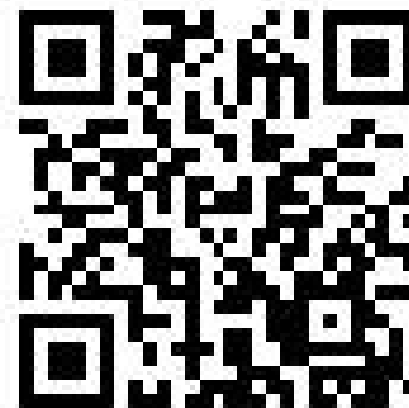
Survey 1

for RFSICs and other sub-
contractors related to FSI
maintenance works



Survey 2

for FSI maintenance
practitioners



Thank you

Promotion of wider adoption of

**Stand-alone
Fire Detectors**



Background



Tin Heng Estate, Yuen Long
2 deaths (1 September 2018)



Ivy Street, Tai Kok Tsui
1 death (10 December 2020)



點擊睇片

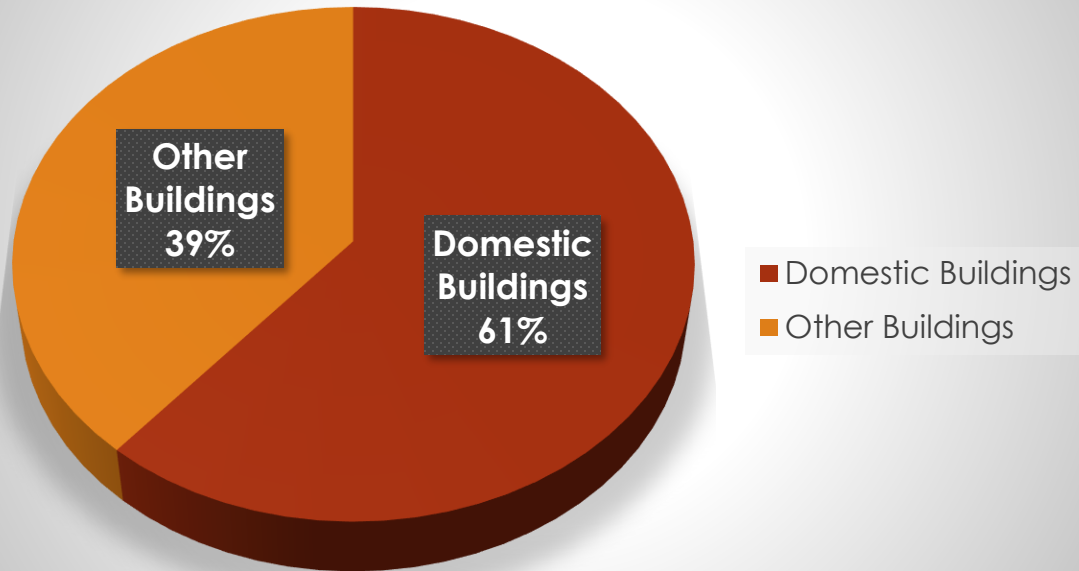


有住戶爬出窗外逃生

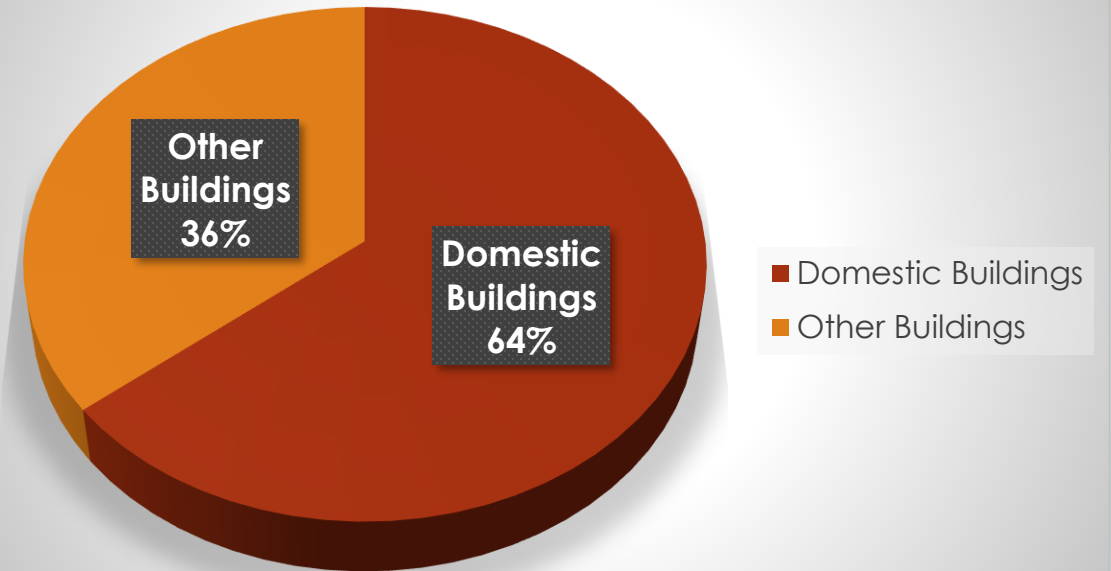
Canton Road, Yau Ma Tei
8 deaths (15 November
2020)

Analysis of Building Fires

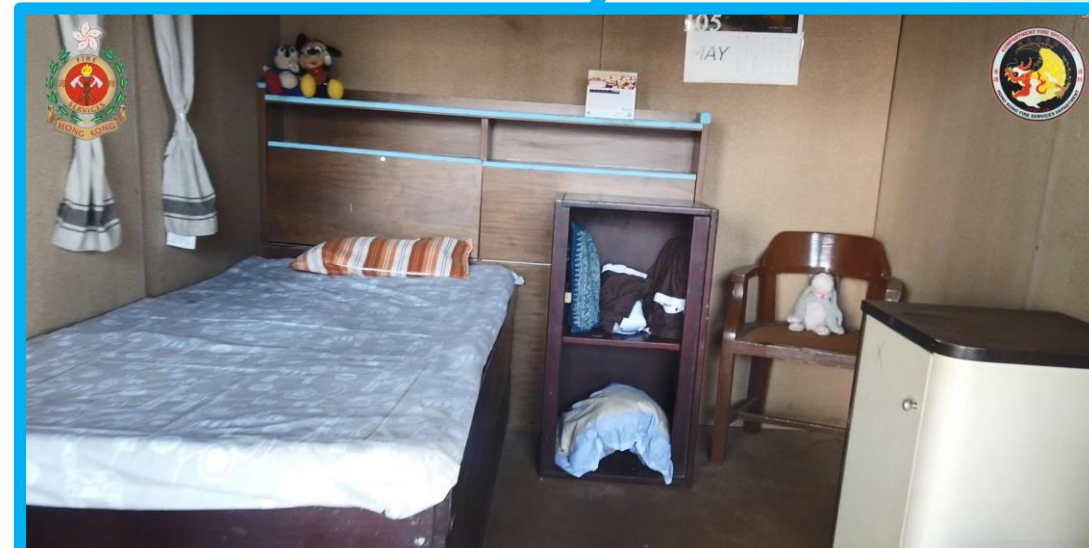
Building Fire 2019



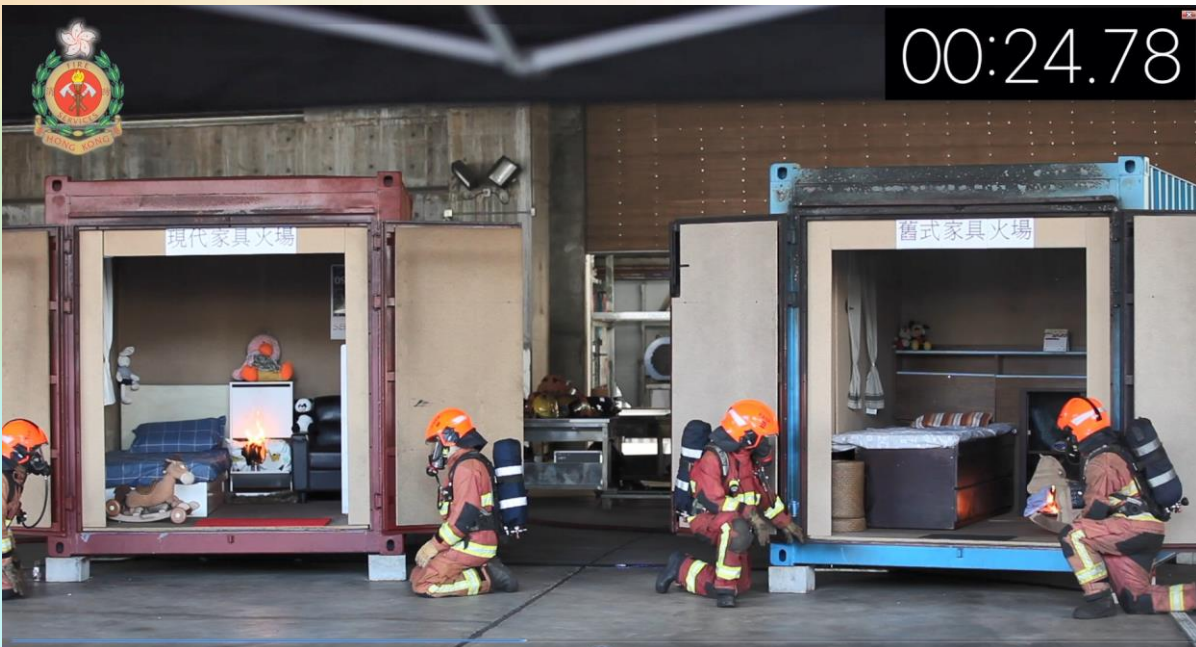
Fire Fatalities 2019



Modern Compartment Furnishing



Modern Compartment Furnishing



Aim

- ◆ Enhance fire safety in buildings
- ◆ User can purchase and install stand-alone fire detectors on their own



Characteristics of stand-alone fire detectors

- Smoke Alarm
 - Photoelectric (光電原理)
 - Ionization (電離原理)
- Heat Alarm
 - Thermistor
 - Rate-of-rise



Photoelectric



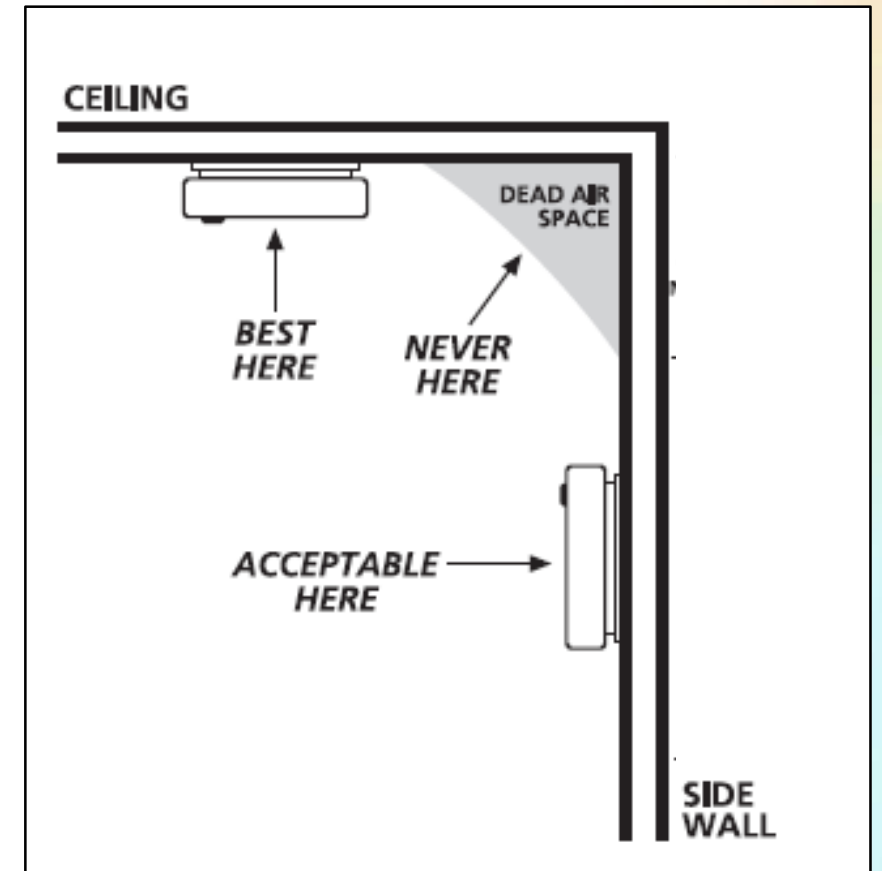
Ionization



Heat Alarm

Characteristics of stand-alone fire detectors

- Battery-operated
- DIY
- Easy maintenance
- Low cost



Stand-alone fire detector
installation guide

Overseas Experiences

- About **92%** of U.S. household have smoke alarms installed
- About 75% of UK dwellings have smoke alarms installed
- Death rate of home fires is **twice** as high for homes without working smoke alarm (NFPA, 2019)



Specifications of stand-alone fire detectors

International / National standards –

- BS EN 14604
- UL 217
- GB 20517
- AS 3786, etc.



GB 20517
CCC Certified



EN 14604
LPCB approved



UL 217 / EN14604
UL Listed
Wifi connection



GB 20517
CCC Certified
IoT Technology

In-house Testing By FSD



Legal Requirements of FSI under Cap. 95B

Reg. 6

- Installed by RFSIC

Reg. 7

- Maintained, inspected and repaired by RFSIC

Reg. 8

- Efficient working order at all times
- Inspected by a RFSIC every 12 months

All FSI:

Current Situation in Hong Kong



Stand-alone fire
detectors
(not required by
Government
Authorities)



FSI

Legislative Amendment



- ◆ Relax control over stand-alone fire detectors not required by Government Authorities
- ◆ Promote the wider use of stand-alone fire detectors in Hong Kong, on their own volition

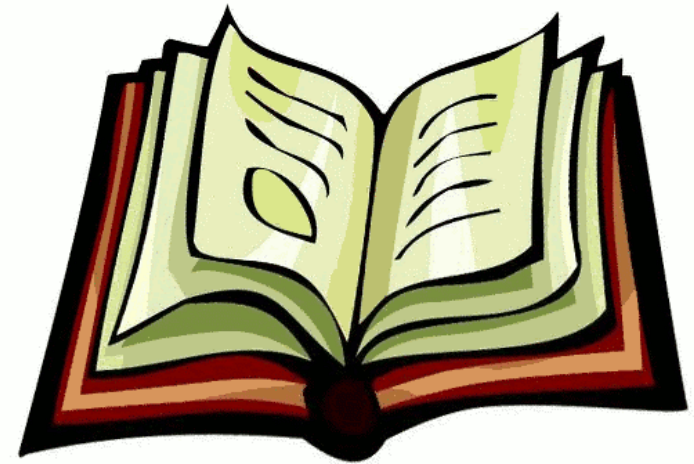
Public Education

User Guideline

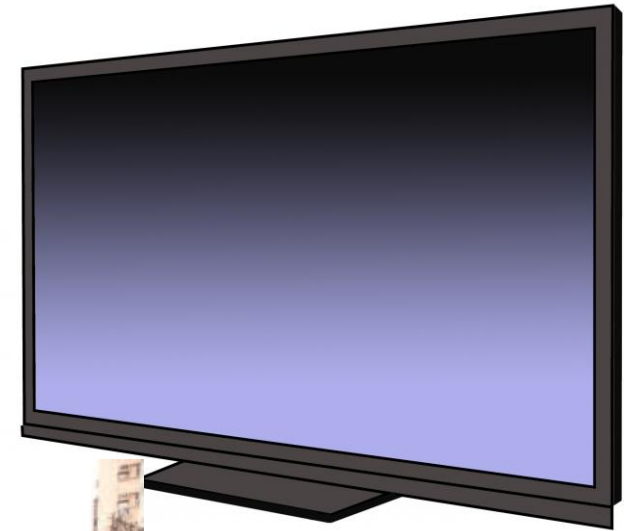
Purchase of stand-alone fire detector
Standards, optional features (wifi, multi-sensor etc.)

Installation of stand-alone fire detector
Where to install, how to install

Maintenance of stand-alone fire detector
Monthly testing, low battery warning



Publicity Campaign



Planned Future Development

家居安全探訪



END

Thank you

Text Input / 打字

Select Icon

選圖案



Q & A Panel

『問與答』面板

“All Panelists”

選“所有答疑者”

Text

打字提問

Q & A Session

Please text back if you have any questions





Thank You

