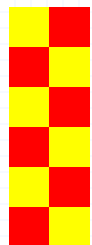




# SCDF

The Life Saving Force

... for a safer Singapore



## FSM BRIEFING 2019

### ENFORCEMENT STATISTICS & COMMON FIRE SAFETY NON -COMPLIANCES

ONG KOK PING

ENFORCEMENT & PROSECUTION BRANCH  
CENTRAL ENFORCEMENT DEPARTMENT



# Scope of Presentation

- Introduction
- State of Fire Safety in Singapore
- Common Fire Safety Non-Compliances



# Introduction




## SCDF regulates fire safety to attain a fire-safe built environment

- Formulates fire safety policies
- Implements fire safety standards
- Partnering the industry players to improve on regulatory systems
- Maintains an effective regulatory regime that works well for the country



# Introduction

**To create a fire safe environment by enforcing the FSA and achieved through**

-  Scheduled fire safety checks
-  Responding to public feedbacks
-  Concerted joint efforts by SCDF, building managements, owners, FSMs and CERTs





# State of Fire Safety in Singapore 1<sup>st</sup> Half of 2019

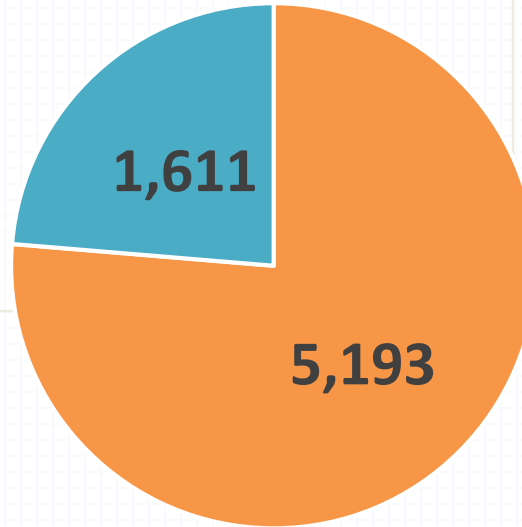


# Enforcement Checks

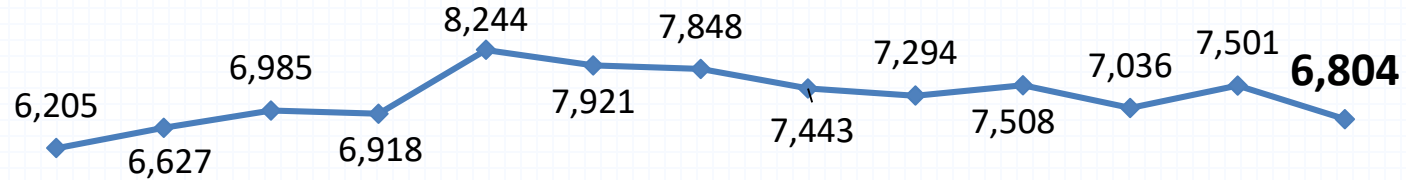


■ Inspection by Fire Stations

■ Inspection by CED Teams



# Enforcement Checks



---

Jan -	Jul -	Jan -	Jul -	Jan -	Jul -	Jan -	Jul -	Jan -	Jul -	Jan -	Jul -	Jan -
Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
2013	2013	2014	2014	2015	2015	2016	2016	2017	2017	2018	2018	2019

**Ensure the awareness of the importance of fire safety**



# Enforcement Notices

## Fire Hazard

Any matter or circumstances which materially increase the likelihood of fire or the danger to life or property that would result from the outbreak of fire

Fire Hazard Abatement Notice  
FHAN

1,085





# Enforcement Notices

## Fire Safety Offence

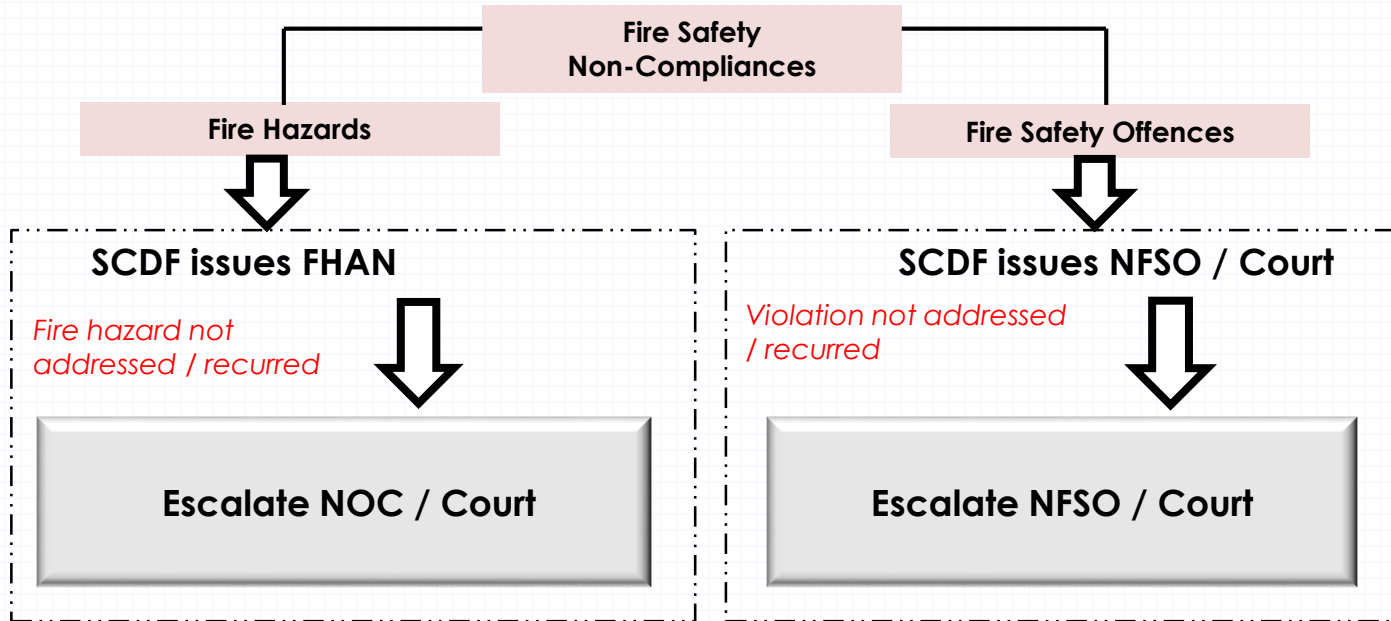
Contravention to requirements in Fire Safety Act and its regulations

Notice of Fire Safety Offence  
NFSO

991




# Fire Safety Enforcement Action



A light gray map of the state of Massachusetts is shown in the background. A dark gold banner is overlaid on the map, containing the title and statistics. Below the banner, a semi-transparent white box contains two bullet points, each preceded by a fire alarm icon. The background of the slide features a blue horizontal line with a white pulse graphic on the left side.

## STATE OF FIRE SAFETY IN OUR BUILDINGS

 6,804 fire safety inspections conducted in first half of 2019

 1,085 FHANs and 991 NFSOs issued

# Common Fire Safety Non-Compliances



# Fire Hazard

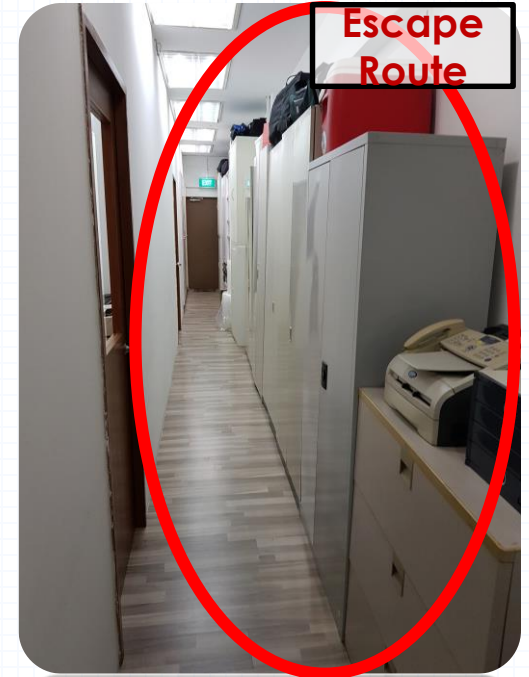
Any matter or circumstances which materially increase the likelihood of fire or the danger to life or property that would result from the outbreak of fire and includes

-  **Obstruction to means of escape**
-  **Obstruction to fire safety measures**
-  **Non-maintenance of fire safety measures**
-  **Missing / removal of fire safety measures**
-  **Overcrowding**
-  **Storage / Placement of combustible material along staircase/escape route**



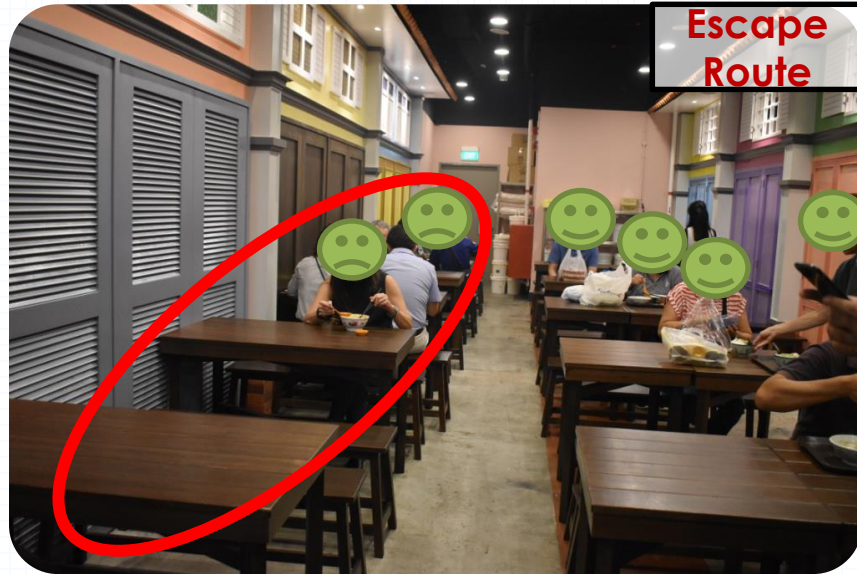
# Common Fire Hazard

Obstruction to means of escape



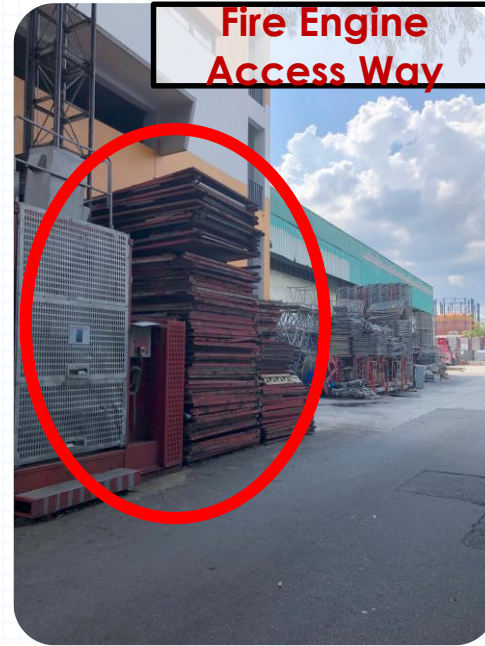
# Common Fire Hazard

Obstruction to means of escape



# Common Fire Hazard

Obstruction to fire safety measures





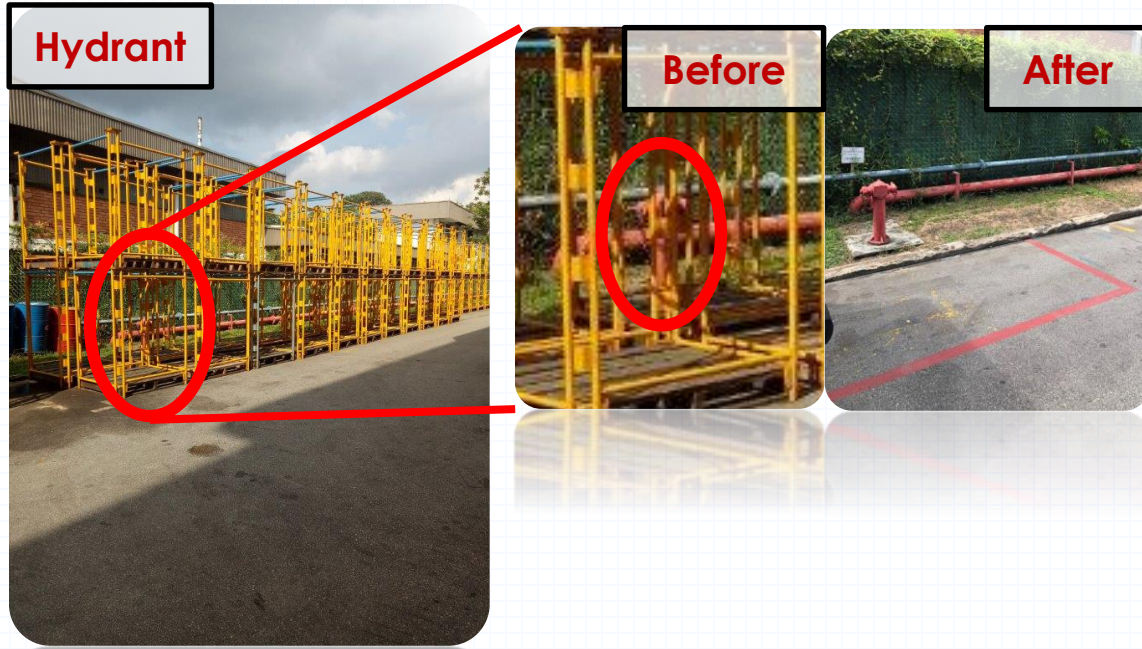
# Common Fire Hazard

Obstruction to fire safety measures



# Common Fire Hazard

Obstruction to fire safety measures



# Common Fire Hazard

Obstruction to fire safety measures



# Common Fire Hazard

Obstruction to fire safety measures



# Common Fire Hazard

Fire safety measures not in efficient working order





# Common Fire Hazard

Fire safety measures not in efficient working order

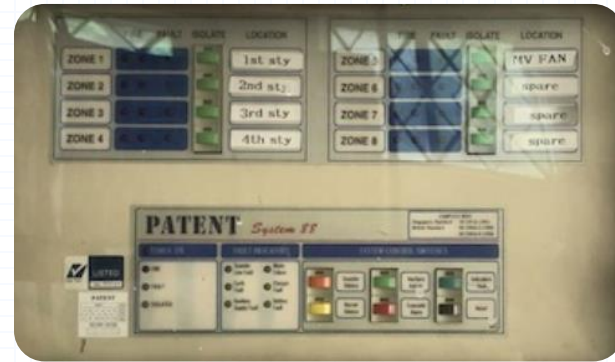


# Common Fire Hazard

Fire safety measures not in efficient working order

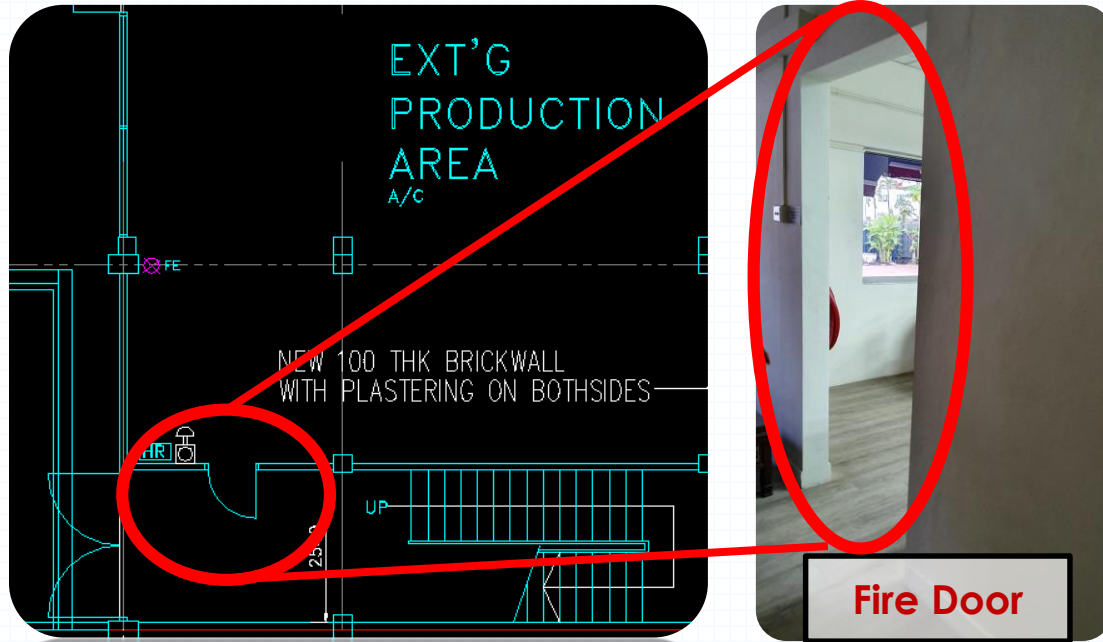


**Fire Alarm Panel**



# Common Fire Hazard

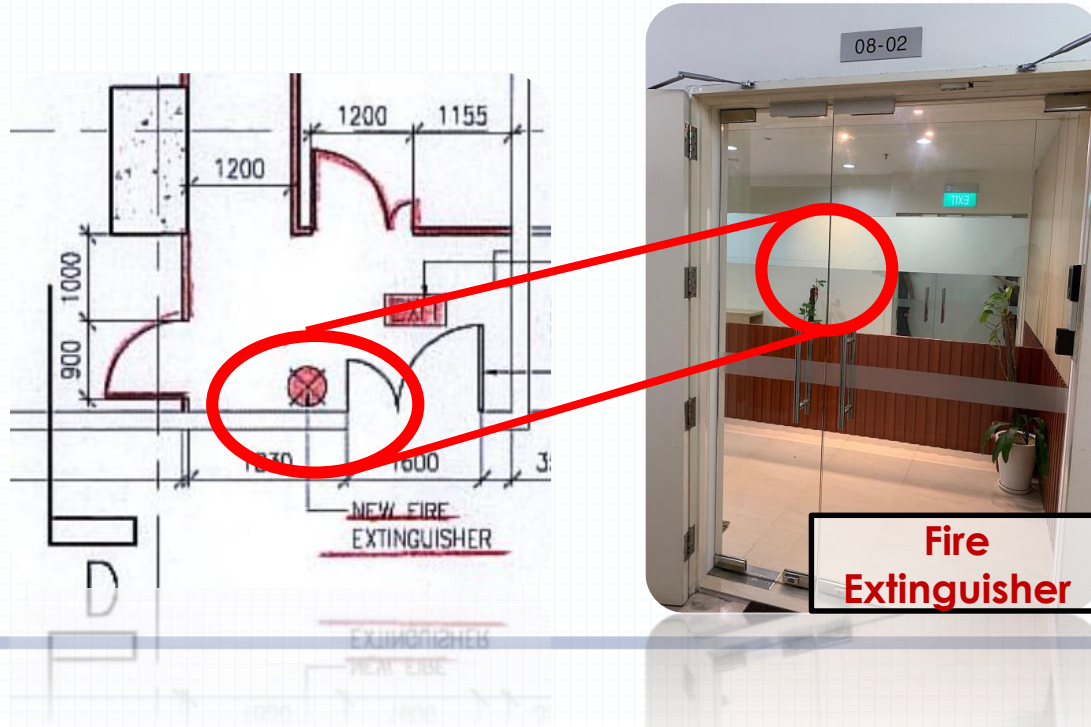
Missing / removal of fire safety measures





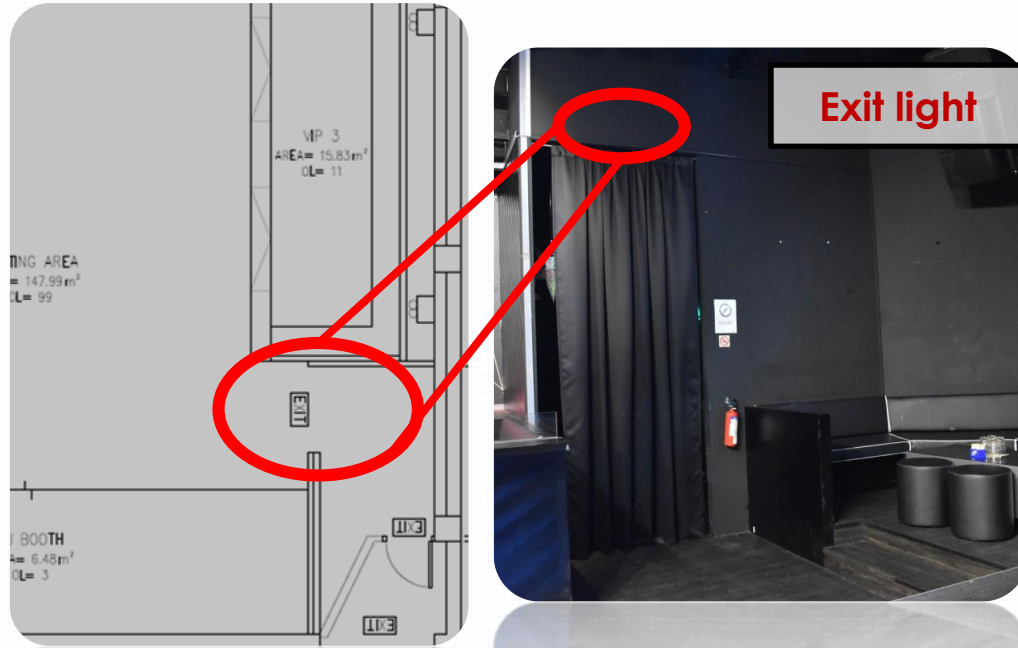
# Common Fire Hazard

Missing / removal of fire safety measures



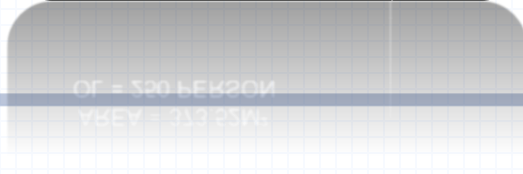
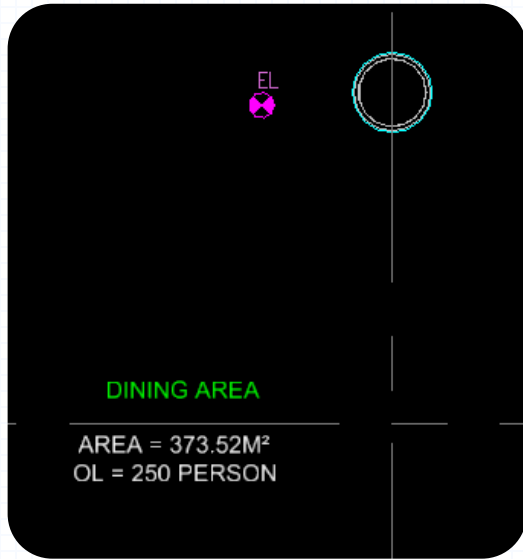
# Common Fire Hazard

Missing / removal of fire safety measures



# Common Fire Hazard

Overcrowding : Exceeds occupancy load (OL)



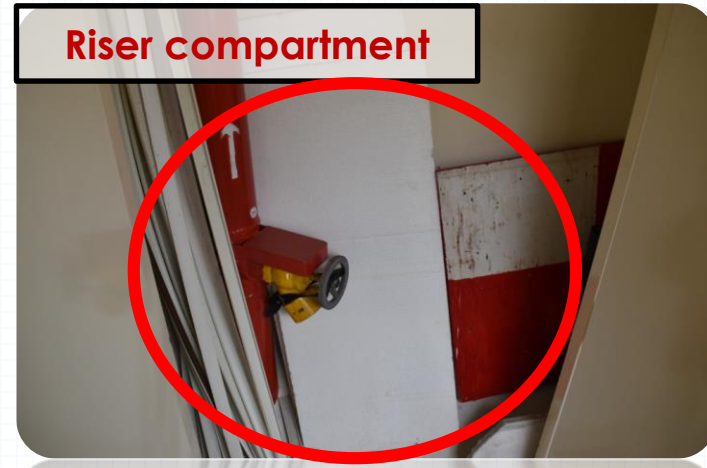
# Common Fire Hazard

Storage / placement of combustible material

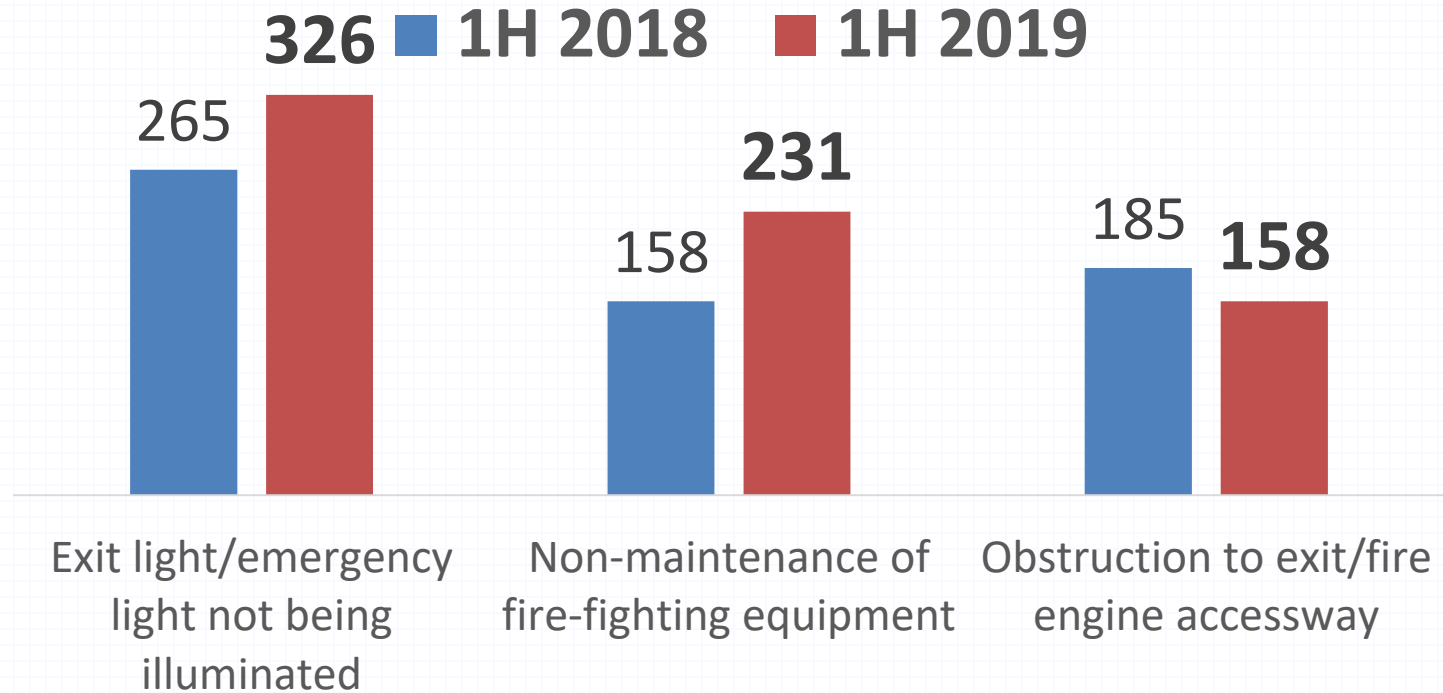


# Common Fire Hazard

Storage / placement of combustible material



# Top Three Types of FHAN Issued



# Fire Safety Offence

## Contravention to requirements in Fire Safety Act and its regulations

-  **Change the use of premises**
-  **Carrying out fire safety works without approval of plans**
-  **Storage of Petroleum and Flammable Material (P&FM) without a valid storage license**



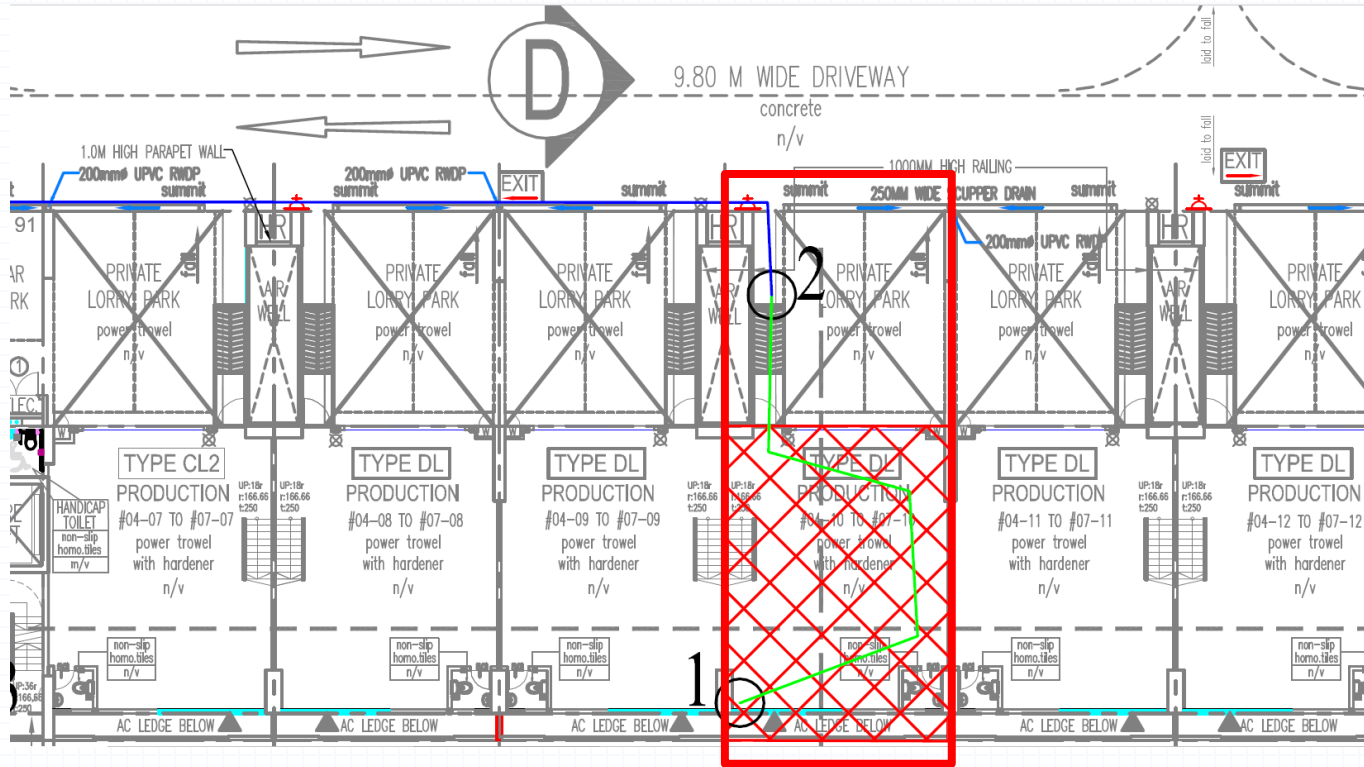


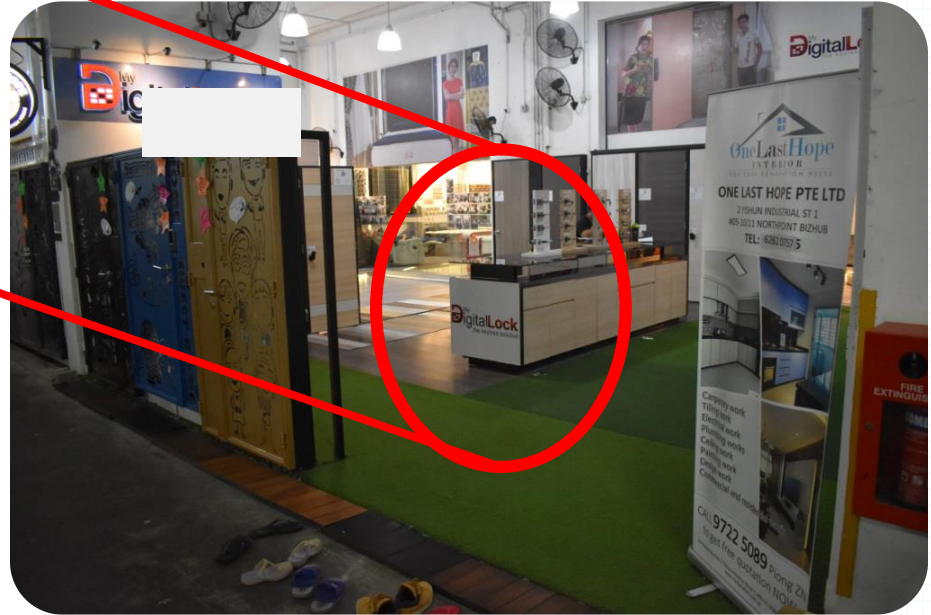
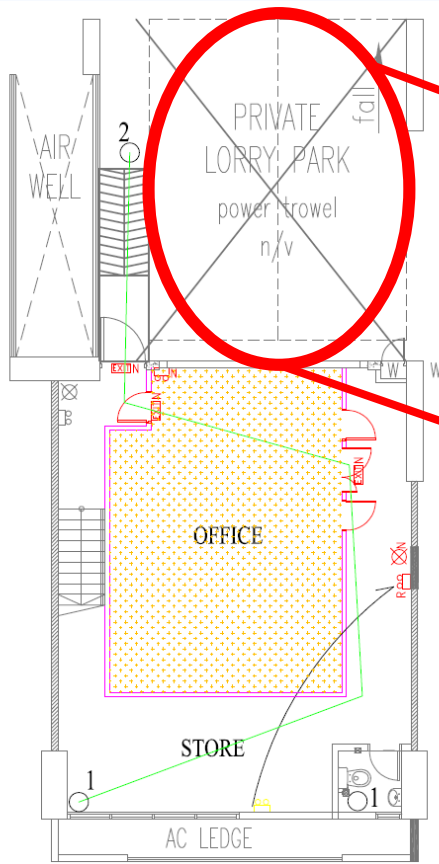
# Common Fire Safety Offence

Change the use of premises

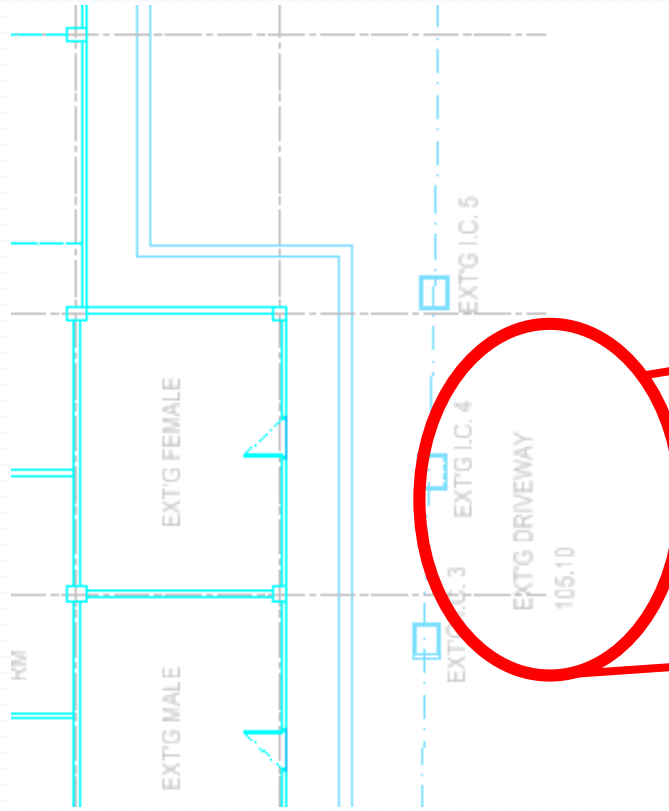










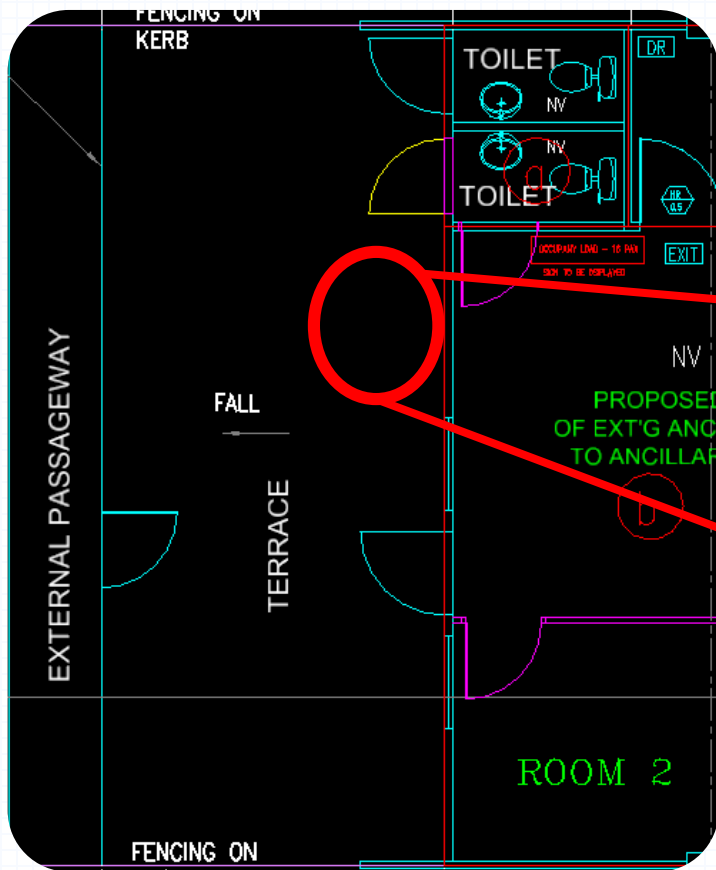




# Common Fire Safety Offence

Change the use of premises

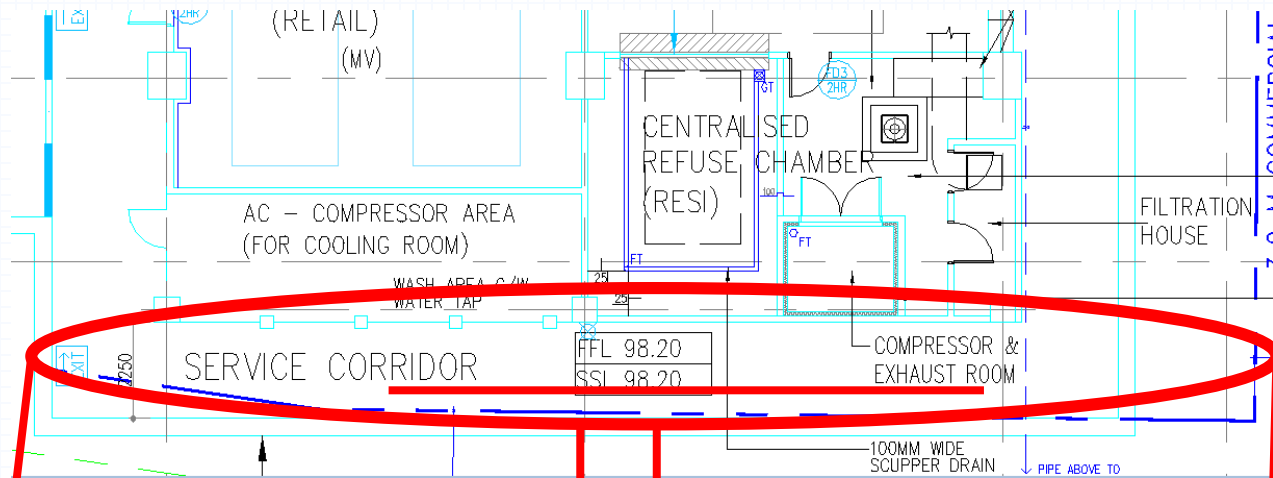




# Common Fire Safety Offence

Change the use of premises



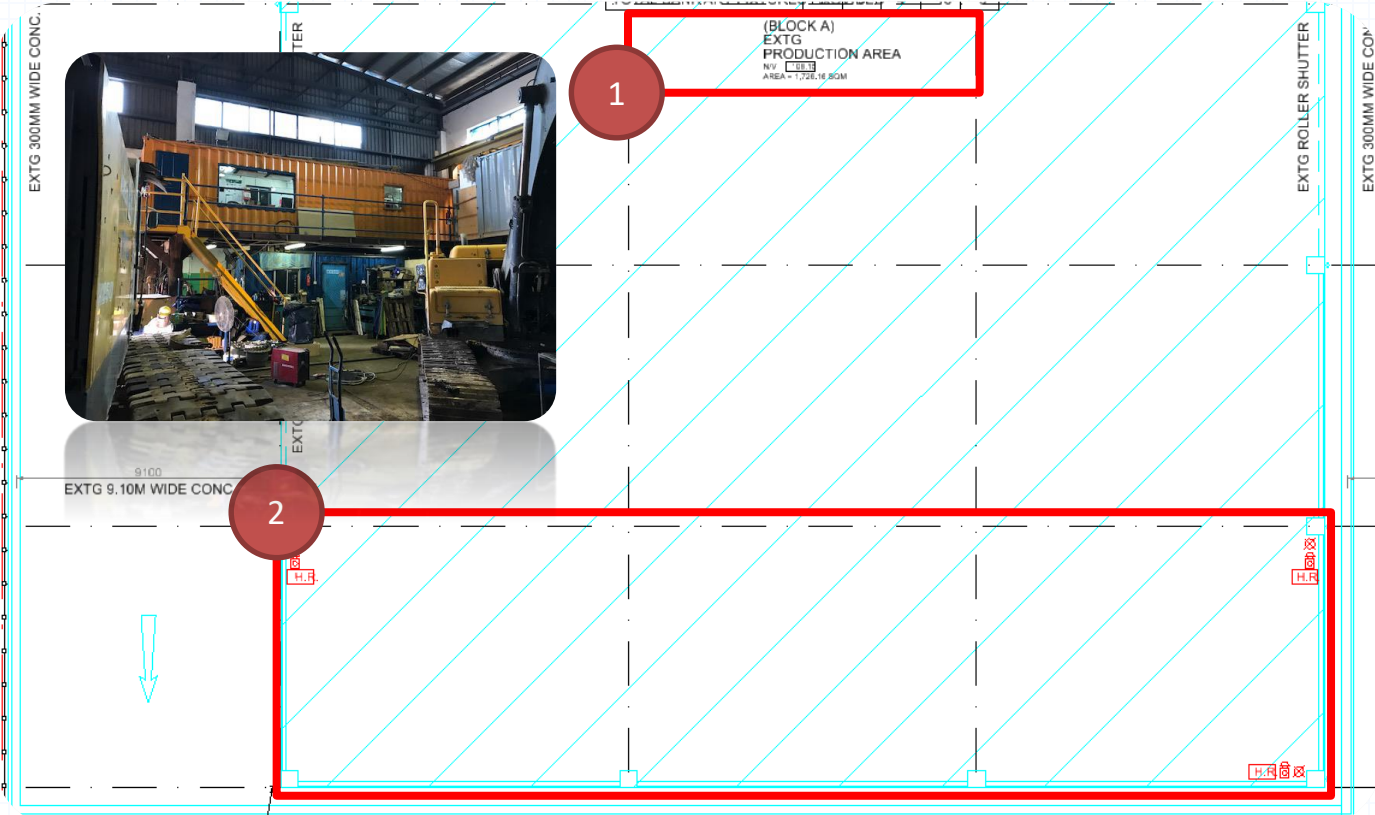




# Common Fire Safety Offence

Change the use of premises





# Common Fire Safety Offence

Change the use of premises to dormitory



# Common Fire Safety Offence

Change the use of premises to dormitory





# Common Fire Safety Offence

Fire Safety Works (LPG manifold system)  
without approval of plan



# Common Fire Safety Offence

Fire Safety Works (mechanical ventilation) without approval of plan



# Common Fire Safety Offence

Fire Safety Works (diesel tank) without approval of plan



# Common Fire Safety Offence

Fire Safety Works (container) without approval of plan





# Common Fire Safety Offence

Fire Safety Works (container) without approval of plan



# Fire Safety Works (partition) without approval of plan



# Common Fire Safety Offence

Fire Safety Works (partition) without approval of plan



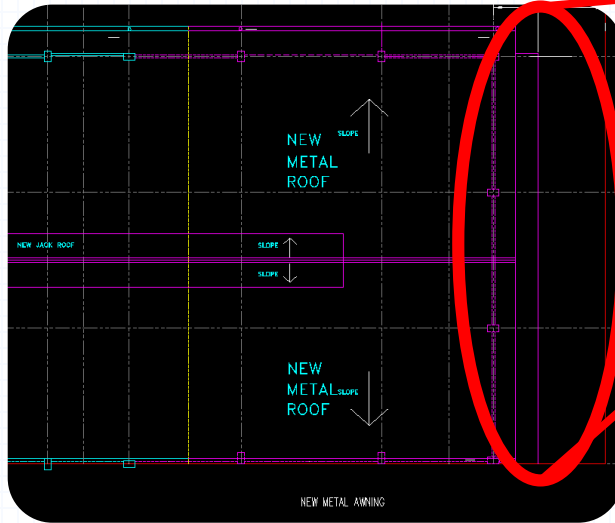
# Common Fire Safety Offence

Fire Safety Works (mezzanine) without approval of plan



# Common Fire Safety Offence

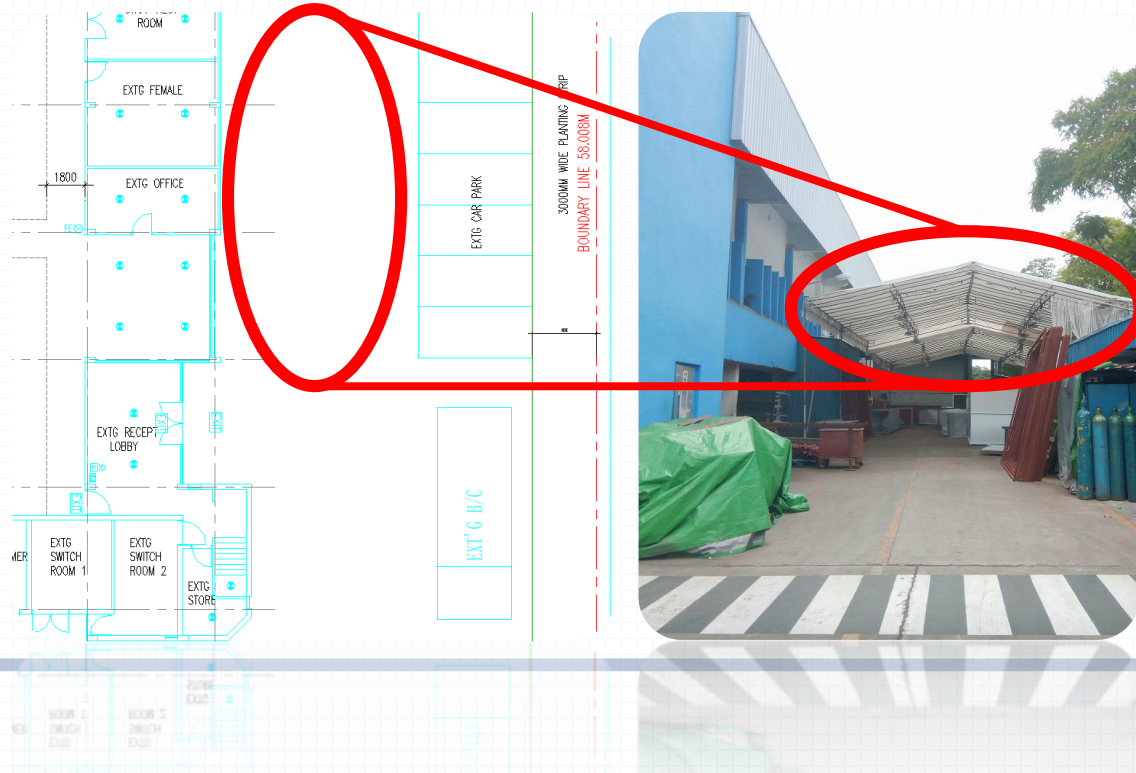
Fire Safety Works (roof structure) without approval of plan





# Common Fire Safety Offence

Fire Safety Works (tent) without approval of plan



# Common Fire Safety Offence

Storage of  
Petroleum and  
Flammable  
Material (P&FM)  
without a valid  
storage license

SINGAPORE CIVIL DEFENCE FORCE  
HQ SINGAPORE CIVIL DEFENCE FORCE  
91 UBI AVE 4 SINGAPORE 408827 Fax: 68483723  
Website: <http://www.scdf.gov.sg>

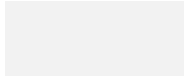


REPUBLIC OF SINGAPORE  
SINGAPORE CIVIL DEFENCE FORCE

FIRE SAFETY ACT  
(CHAPTER 109A)

SECTION 29 (3) (a)

FIRE SAFETY CERTIFICATE



DESCRIPTION OF PROJECT:

PROPOSED ADDITIONAL STORAGE OF FLAMMABLE MATERIAL & PETROLEUM WITH INSTALLATION OF SEPARATION WALL AT THE COMMON BOUNDARY OF THE EXISTING FACTORY AT MUKIM 27 LOT095948P, 20, CHANGI SOUTH STREET 1, SINGAPORE 496779

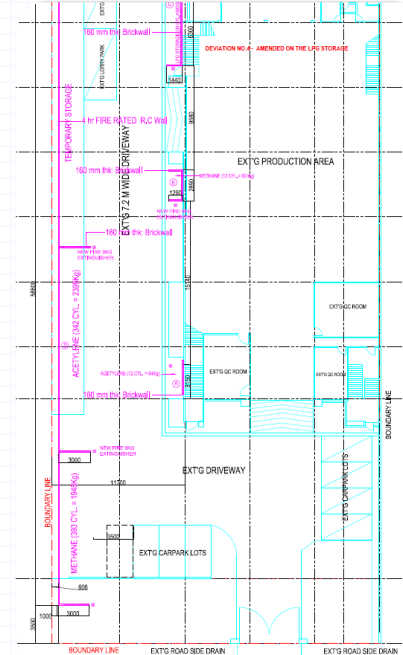
APPROVED PLAN NUMBER(S):

DBPN011471201 DBPN011471212 DBPN011471202

This is to certify that the fire safety works in the above project have been satisfactorily completed in accordance with the requirements of the Fire Safety Act.

ANG OON CHYE  
for COMMISSIONER  
SINGAPORE CIVIL DEFENCE FORCE

Date : 08-Dec-2014







- Flammable Materials

The exemption quantities for the 366 classes of Flammable Materials are in the following folder. Click on the link to download the Exemption quantities for flammable materials. (58.50 KB )

<i>S/N</i>	<i>Flammable Materials</i>	<i>General manufacturing, etc., purpose</i>	<i>Medical or laboratory purpose</i>
1.	Acetal	20 L	20 L
2.	Acetaldehyde diethylacetal	20 L	20 L
3.	Acetoin (3-Hydroxybutanone)	20 L	20 L
4.	Acetone	20 L	20 L
5.	Acetyl chloride	20 L	20 L
6.	Acetyl methyl carbinol (Butanolone)	20 L	20 L
7.	Acetylene	10 kg	10 kg
8.	Acryloyl chloride	20 L	20 L
9.	Aldehydes	20 L	20 L
10.	Allyl acetate	20 L	20 L
11.	Allyl bromide	20 L	20 L



- P&FM Mixtures

Mixed storage or keeping of any petroleum and flammable material, or more than one flammable material, in separate containers or compartments within any premises shall be exempted from the requirement of a licence if:

i. Where all the substances are solids, their aggregate weight does not exceed 20 kg;

Eg. If you store several kinds of petroleum/flammable materials of which all are solids, for instance, aluminum powder, calcium carbide and calcium silicate, you are required to have a storage licence if the overall quantity of all such solids together exceeds 20 kg.

ii. Where all the substances are liquids, their aggregate volume does not exceed 40 L:

Eg. If you store several kinds of petroleum/flammable materials of which all are liquids, for instance, butanol, chlorobutane and acetone, you are required to have a storage licence if the overall quantity of all such liquids together exceeds 40 L.

iii. Where all the substances are gaseous, their aggregate weight does not exceed 10 kg; or

Eg. If you store several kinds of petroleum/flammable materials of which all are gases, for instance, acetylene, hydrogen and ethane, you are required to have a storage licence if the overall quantity of all such gases together exceeds 10 kg.

iv. Where the substances are in mixed states, their aggregate weight does not exceed 20 kg.

Eg. If you store several kinds of petroleum/flammable materials of which consist of solids, liquids and gases, for instance, calcium carbide, acetone and acetylene, you are required to have a storage licence if the overall quantity of all such solids, liquids and gases together exceeds 20 kg.

# Common Fire Safety Offence

Storage of Petroleum and Flammable Material (P&FM) without a valid storage license



# Common Fire Safety Offence

- Class 0 Petroleum

Purpose	Exemption Quantity
For private use in a private dwelling house	Not more than 30 kg in not more than 2 cylinders
For use in eating place	Not more than 30 kg per stall in the eating place (whether occupied or not), subject to a maximum quantity of not more than 200 kg to be stored at that eating place
For use in restaurant	Not more than 200 kg
For use in a factory	Not more than 300 kg per factory



# Common Fire Safety Offence

Storage of Petroleum and Flammable Material (P&FM) without a valid storage license

  
The Life Saving Force  
SINGAPORE CIVIL DEFENCE FORCE

REPUBLIC OF SINGAPORE  
SINGAPORE CIVIL DEFENCE FORCE

FIRE SAFETY ACT  
(CHAPTER 109A)

SECTION 29 (3) (a)

FIRE SAFETY CERTIFICATE

DESCRIPTION OF PROJECT:  
PROPOSED ADDITIONS & ALTERATIONS TO THE EXISTING SINGLE-USER FACTORY ON LOT 01605W MK 06 AT 4 SECOND CHIN BEE ROAD (WITH PROPOSED 9000L DIESEL STORAGE TANK)

APPROVED PLAN NUMBER(S):  
DEPN102015

This is to certify that the fire safety works in the above project have been satisfactorily completed in accordance with the requirements of the Fire Safety Act.

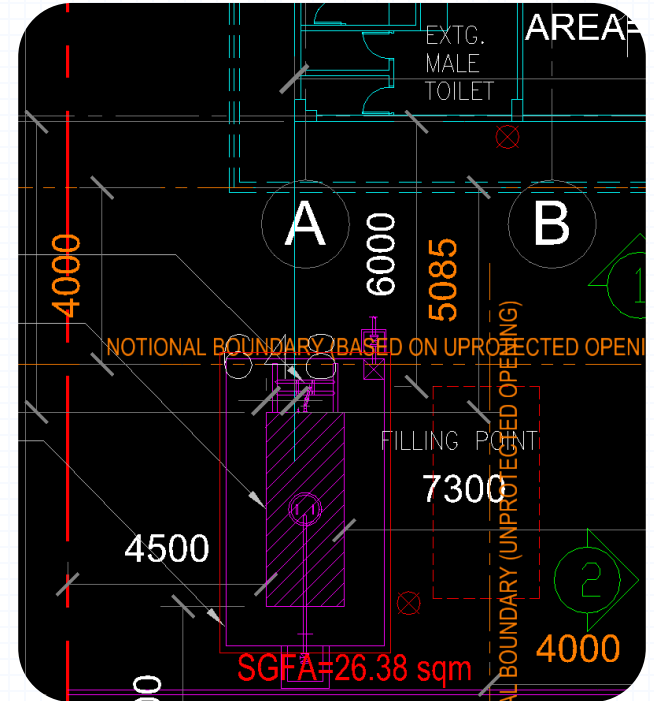
ANG OON CHYE  
for Commissioner  
Singapore Civil Defence Force

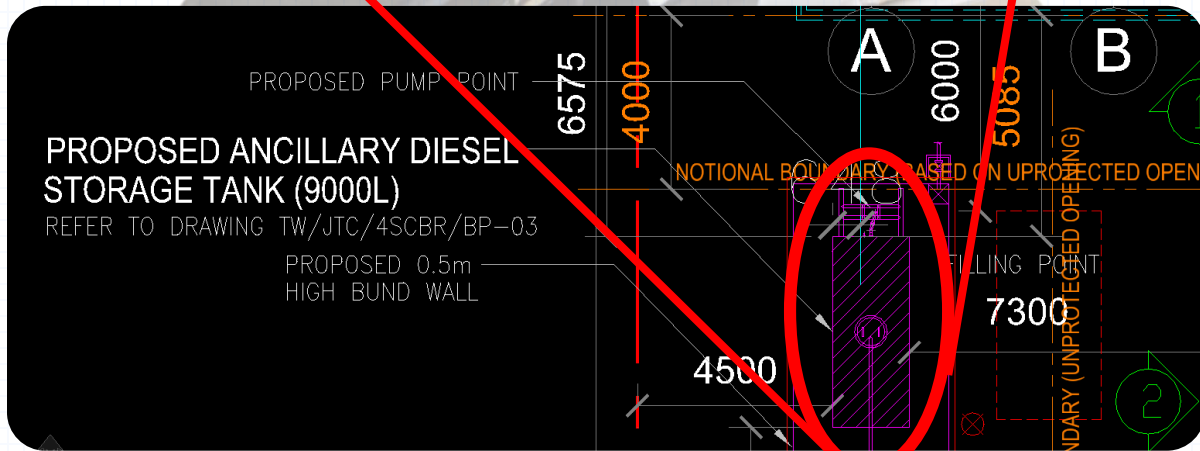
Date : 07-Dec-2015

SCDF – A member of the Home Team

HQ SINGAPORE CIVIL DEFENCE FORCE, 11 LIME AVENUE 4, SINGAPORE 43807  
TEL: 6941430 FAX: 6941494 EMAIL: ANO\_One\_Oper@scdf.gov.sg



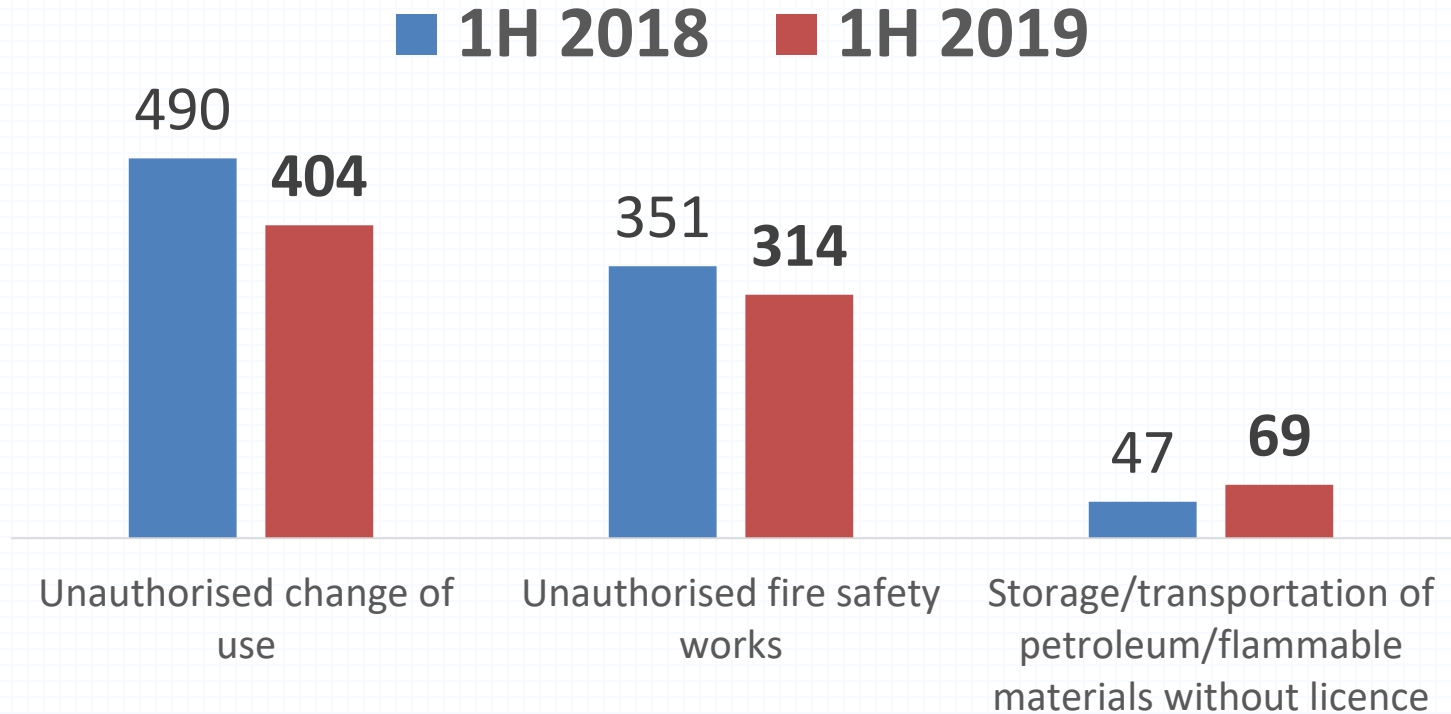


- Any Other Classes of Petroleum

Purpose	Exemption Quantity		
	Class I Petroleum	Class II Petroleum	Class III Petroleum
For private use in a private dwelling house or for use in any business other than in a factory	Not more than 20 L	Not more than 200 L	Not more than 1,500 L
For use in a factory	Not more than 400 L	Not more than 1,000 L	Not more than 1,500 L



# Top three types of NFSO issued



# Thank You

