

消防處 Fire Services Department

FSD Connects with the Relevant Industries of Dangerous Goods

14 March 2024

AGENDA

Introduction	Mr. CHAN Chi-fung
Topic 1: Packing, Marking and Labelling Requirements	Mr. POON Wai-lok
Topic 2: General principles to be observed when installing EV Charging Facilities in Petrol Filling Stations	Mr. TAM Tsz-kin
Topic 3: Points to Note for Installing Dangerous Goods Vehicle Tail Lift Safety Device	Mr. PANG Tsz-kan
Q & A Session	All Speakers



消防處 Fire Services Department

Packing, Marking and Labelling Requirement 危險品包裝、標記及標籤的規定

Senior Station Officer POON Wai-lok

Amended Dangerous Goods Ordinance

The new regulatory system comprehensively sets out the

- Licensing regime for the manufacture, conveyance, storage and use of Dangerous Goods ("DG")
- 2. New requirements for Packing, Marking and Labelling ("PML") of DG

Requirements for PMIL ≠ Licencing requirements

Aim of amendment:

Brought the local regulatory system of DG in line with the **international standards**

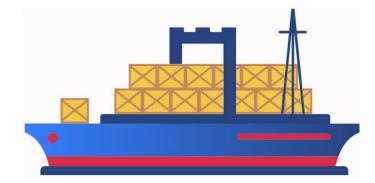


Why do we need PML?

- 1. To raise public awareness
- 2. To enhance safety in handling DG
- 3. To assist the trade in conducting risk management







Governing Regulations and CoP

(1) Section 142 of Dangerous Goods (Control) Regulation (Cap. 295G)

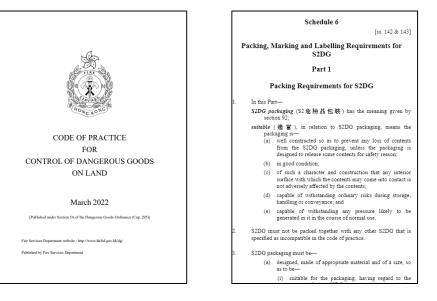
=> Packing, Marking and Labelling (PML) of DG

(2) Section 145 of Cap. 295G

=> Special packing requirements for Class 2 DG

(A) Code of Practice for Control of Dangerous Goods on Land Chapter 3

(B) Cap. 295G Dangerous Goods (Control) Regulation Schedule 6



Offence and Penalty

A person who contravenes s.142 (1) commits an offence and is liable on conviction to





Penalty							
Fine	Level 6 (\$100,000)						
Imprisonment	6 months						



Common examples for non-compliance

	Examples	Offence						
	Unsuitable types of packaging	Non-compliance with s. 3 of Sch. 6 of Cap. 295G						
Packing	Inappropriate materials/over size limit	Non-compliance with s. 3 and 4 of Sch. 6 of Cap. 295G						
	Mixed packing of incompatible DG	Non-compliance with s.2 of Sch. 6 of Cap. 295G						
	Lack of mark or insufficient mark	Non-compliance with s. 10 of Sch. 6 of Cap. 295G						
Marking	Incorrect or misleading mark	Non-compliance with s. 10 of Sch. 6 of Cap. 295G						
	Unidentifiable or illegible mark	Non-compliance with s. 11 of Sch. 6 of Cap. 295G						
	Lack of label or insufficient label	Non-compliance with s. 13, 15, 16, 18 and/or 19 of Sch. 6 of Cap. 295G						
Labelling	Incorrect or misleading label	Non-compliance with s. 13, 15, 16, 18, 19, 21 and/or 23 of Sch. 6 of Cap. 295G						
	Unidentifiable or illegible label	Non-compliance with ss. 14 and/or 20 of Sch. 6 of Cap. 295G						

General Application & Exemption

	Packing	Marking	Labelling
S2DG*	\checkmark	\checkmark	1
(1) DG in Consumer Packs	×	×	×
(2) UN 3065 Alcoholic Beverages	×	×	×
(3) Class 3A DG in approved tank	×	×	×
(4) DG forming part of Machinery	×	×	×
(5) DG in Limited Packs	\checkmark	×	×



General Application & Exemption

Remarks

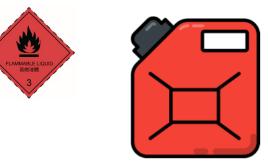
DG in conformity with **IMDG Code =** Comply PML Requirements

Except:

a) Class 2 DG: special packing requirement (S.145 of Cap. 295G)



b) Class 3A DG:



(2) Inspection and Testing of Receptacle

(1) Receptacle Approved

DG in Consumer Packs (DGCP)

What is consumer pack?

- Containers of DG with capacities not exceeding the Maximum Package Size (MPS)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
UN	Proper Shipping Name /	C	Subsidiary	Constant and	SN	Packing (A)	ppendix 5)			Compatibility
No.	Packing Group (if any)	Class	Hazard	Specifications	(Appendix 4)	BP	SP	LQ	MPS	2.3.3
1791	HYPOCHLORITE SOLUTION / PG II	8	None	Mixtures of a Hypochlorite with an ammonium salt is prohibited.	274	BP001	SP10	1	1	CG8
1791	HYPOCHLORITE SOLUTION / PG III	8	None	Mixtures of a Hypochlorite with an ammonium salt is prohibited.	274	BP001		5	5	CG8

	Packing	Marking	Labelling	9 18 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2
(1) DG in Consumer Packs	×	×	×	1 42 · 20 · 1 · 20 · 2

Applicable to uninhabited compartment and warehouse compartment only!



Limited Packs (LQ)

What is limited pack?

Capacity of the receptacle does not exceed the limited quantity (if any) specified

(1)	(2)	(3)	(4)	(5)	(6)	(7))	(8)	(9)	(10)
UN	Proper Shipping Name /	~	Subsidiary		SN	Packing (Aj	opendix 5)			Compatibility
No.	Packing Group (if any)	Class	Hazard	Specifications	(Appendix 4)	BP	SP	LQ	MPS	2.3.3
1791	HYPOCHLORITE SOLUTION / PG II	8	None	Mixtures of a Hypochlorite with an ammonium salt is prohibited.	274	BP001	SP10	1	1	CG8
1791	HYPOCHLORITE SOLUTION / PG III	8	None	Mixtures of a Hypochlorite with an ammonium salt is prohibited.	274	BP001		5	5	CG8

	Packing	Marking	Labelling
DG in Limited Packs	✓	×	×



1. Packing

Packing

What is Packing?

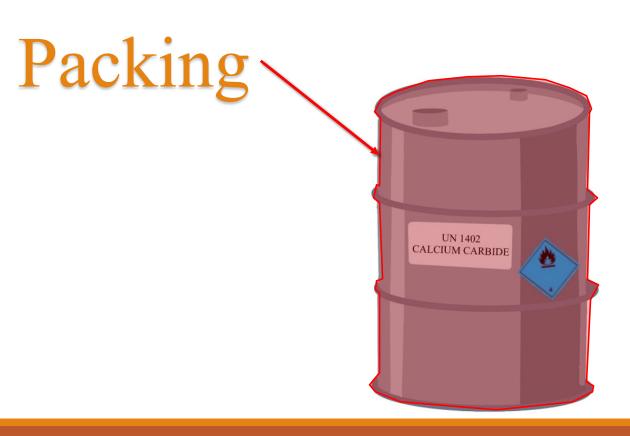
Pursuant to s. 92 of Cap. 295G. a S2DG packaging means any

- 1. receptacle;
- 2. tank; or
- 3. material

for receiving, holding or enclosing S2DG

Requirements on how the DG shall be packed (Determined by the level of **hazard**)

- 1. Size; and
- 2. material



Packing

Packing Requirements

1.	HK FSD Dangerous	Goods Thematic Website	BP406 The follo
	Fire Services Department The Government of the Hong Kong Special Administrative Region		
2.	March 31, 2022	egulation of Dangerous Goods otection for Our Home and Lives A-MINITY Transitional Period Ig safety - Facilitating provide end trades	The inner
L	imited Quantity 🔗	None	
Ν	Aaximum Package Size 🧭	None	
S	pecifications	With not less than 10% water, by mass 以質量計含水不少於10%	- Plas - Stee plastics b - Met
S	Supplementary Notes (SN)	None	plastics je
(в	Packing Basic Packing Instructions (BP) Special Packing Instruction (SP)	BP406 SP31, SP78	- Plas - Plas Addition
C	Compatibility	None	

The following packagings are suitable provide	d that the packing requirements at 3.2.3.2 to 3.2.3.6, if applicable, are m							
Combination packagings								
Inner packagings	Outer packagings^							
The inner packgings shall be water-resistant.	Drums							
	- Fibre							
	- Plywood							
	- Plastics							
	Boxes							
	- Natural wood							
	- Plywood							
	- Reconstituted wood							
	- Fibreboard							
	- Plastic							
	Jerricans							
	- Plastics							
	Single Packagings							
- Plastics, plywood, fibreboard drums with	n water-resistant inner bag, plastic film linings or water-resistant coating							
- Steel, aluminium, metal other than steel	or aluminium, natural wood, plywood, reconstituted wood, fibreboard,							
plastics boxes with water-resistant inner bags	, plastic film linings or water-resistant coatings.							
 Metal drums (steel, aluminium, metal, ot 	her than steel or aluminium), plastic drums, steel or aluminium jerricans,							
plastics jerricans.								
	Composite packagings							
- Plastics receptacles in steel, aluminium, 1	ibre, plastics or plywood drums.							
- Plastics receptacles in steel, aluminium,	wood, plywood, fibreboard or solid plastics boxes.							

Packing

Packing Requirements

Stipulated in s. 2, 3, 4 and 6 of Sch. 6 of Cap. 295G:

- . S2DG must not be packed together with any **incompatible** S2DG
- 2. S2DG packaging must be
 - a) designed, made of <u>appropriate material</u> and of a <u>size</u>, so as to be -
 - 1. suitable for the packaging, capable of <u>withstanding ordinary risks</u> during storage or conveyance; and
 - 2. able to **protect** the S2DG **<u>against</u>** inadvertent or accidental **<u>ignition or initiation</u>** during storage or conveyance; and
 - b) maintained in **good condition** and free from any defect which may impair its performance
- 3. Packaging must be of a <u>size</u> specified in the code of practice
- 4. S2DG packaging must be filled with S2DG to the extent as to leave within the packaging air space or ullage that is not less than the minimum air space or ullage specified

2. Marking

What is Marking?

Pursuant to s. 10 -12 of Part 2 of Sch. 6 to Cap. 295G

Outer surface of an outermost S2DG packaging must be legibly marked with

- (a) UN number/ HK number of each type of S2DG contained
- (b) Proper Shipping Name or true name of each type of S2DG contained in either English or Chinese,



Marking Requirements

- (a) <u>UN number/ HK number:</u>
 Column 1 of the DG List
- (b) **<u>Proper Shipping Name or true name</u>**:

Column 2 of the DG List

Appendix 1 - DG List: Classes 2, 3, 4, 5, 6.1, 8 & 9 DG

(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)
UN	Proper Shipping Name /		Subsidiary		SN	Packing (Ap	pendix 5)		MBG	Compatibility
No.	Packing Group (if any)	Class	Hazard	Specifications	(Appendix 4)	BP	SP	LQ	MPS	2.3.3
1001	ACETYLENE, DISSOLVED	2.1	None		None	BP200		None	None	CR16, CR7
1002	AIR, COMPRESSED	2.2	None		None	BP200		0.12	None	
1003	AIR, REFRIGERATED LIQUID	2.2	5.1		None	BP203		None	None	CG19
1005	AMMONIA, ANHYDROUS	2.3	8		None	BP200		None	None	CG18, CR5,
1005	AMMONIA, AMITEROUS	2.5	0		Itolic	DI 200		None	None	CR16, CR7
1006	ARGON, COMPRESSED	2.2	None		None	BP200		0.12	None	
1008	BORON TRIFLUORIDE	2.3	8		None	BP200		None	None	CR7
1009	BROMOTRIFLUOROMETHANE (also known as REFRIGERANT GAS R 13B1)	2.2	None		None	BP200		0.12	None	
1010	BUTADIENES, STABILIZED or BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED	2.1	None	Containing more than 40% butadienes	None	BP200		None	None	CR7

→What is **True Name**?

A recognised chemical or other name **commonly** used and understood by the trade and public

Proper Shipping Name	UN number	True Name
HYPOCHLORITE	UN 1791	BLEACH
SOLUTION		
PAINT RELATED	UN 3066	THINNER
MATERIAL		
SODIUM HYDROXIDE	UN 1824	DRAIN
SOLUTION		CLEANER
SULPHURIC ACID	UN 1830	DRAIN
		CLEANER

Example

UN 1982

Proper Shipping Name or true name:

(1)	(2)	(3)	(4)	(5)	(6)	(7))	(8)	(9)	(10)
UN	Proper Shipping Name /	Class	Subsidiary	Specifications	SN	Packing (Appendix 5)			MDC	Compatibility
No.	Packing Group (if any)	Class	Hazard		(Appendix 4)	BP	SP	LQ	MPS	2.3.3
	TETRAFLUOROMETHANE (also									
1982	known as REFRIGERANT GAS R	2.2	None		None	BP200		0.12	None	
	14)									

What is the acceptable name to be displaced?

TETRAFLUOROMETHANE or REFRIGERANT GAS R 14?



Example

UN 2793

Proper Shipping Name or true name:

(1)	(2)	(3)	(4)	(5)	(6)	(7))	(8)	(9)	(10)
UN	Proper Shipping Name /	Class	Subsidiary	Constant and	SN	Packing (Aj	ppendix 5)		MDC	Compatibility
No.	Packing Group (if any)	Class	Hazard	Specifications	(Appendix 4)	BP	SP	LQ N	MPS	2.3.3
2793	FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS / PG III	4.2	None	In a form liable to self- heating	None	BP003	SP20 SP100	None	None	

→ What is the acceptable name to be displaced?

FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS ?

FERROUS METAL BORINGS? FERROUS METAL SHAVINGS? FERROUS METAL TURNING ? FERROUS METAL CUTTING ?



Display Requirements

- (a) Readily visible and legible
- (b) Clearly identifiable
- (c) Display on a background of contrasting colour
- (d) Display at the **<u>outer</u>** surface of the <u>**outermost**</u> packaging
- (e) Specification of Marks





Type of Package	Size of the Package	Min. Height of the Letter / Character
Pressure receptacles /	> 60 L	12 mm
cylinders (water capacity)	\leq 60 L	6 mm
	≤5L	Appropriate Size
Packages other than	> 30 L/kg	12 mm
pressure receptacles / cylinders (capacity / net	\leq 30 L/kg	6 mm
mass)	\leq 5 L/kg	Appropriate Size

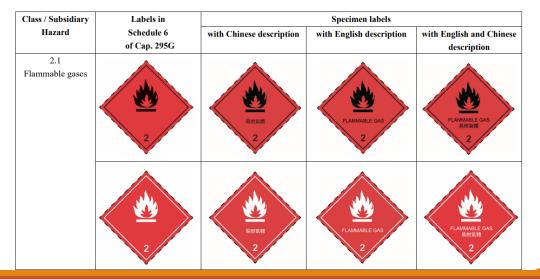
3. Labelling

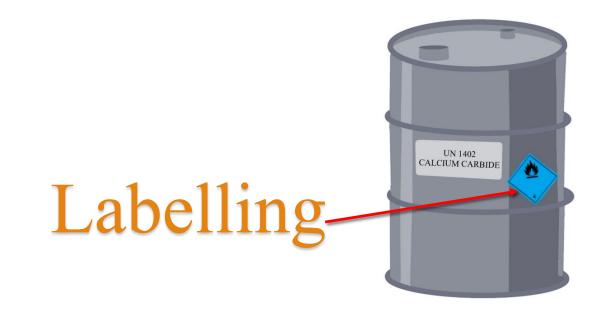
Labelling

What is Labelling?

S. 13 of Part 3 of Sch. 6 to Cap. 295G

- Division 2 of Part 3 of the Sch. 6
- Division 3 of Part 3 of the Sch. 6
- 3.4.3.4 od CoP
- 3.4.3.4 Specimen Labels





Labelling

Specifications of Label

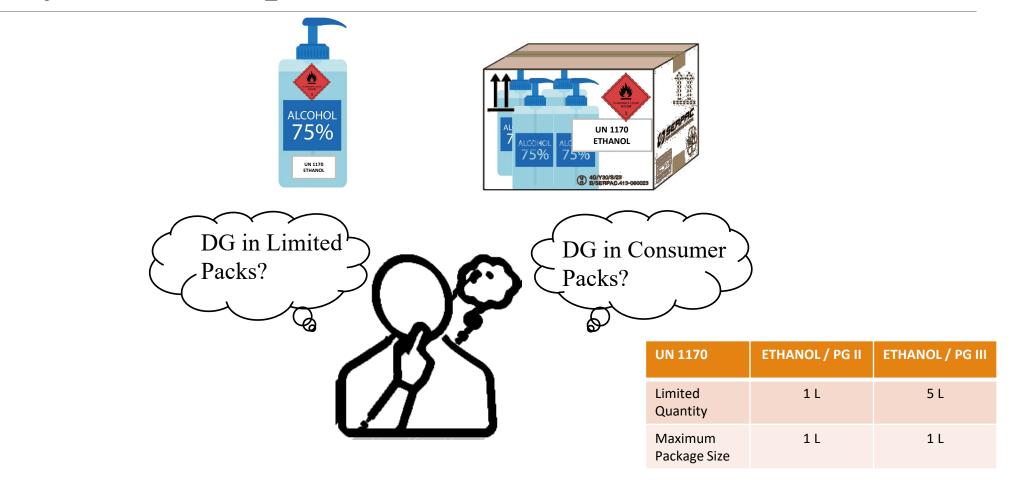
Specifications of Marks

- (a) Square-shaped
- (b) Minimum length: 100 mm
- (c) Form of label
 - Colour
 - Symbol
 - Numbers
 - General format
 - In appropriate scale

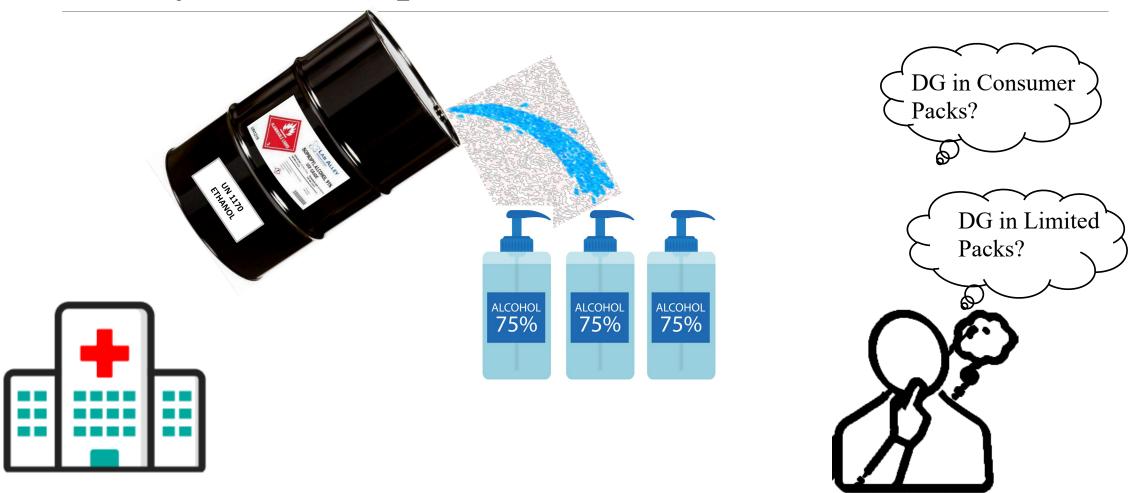
If it is not feasible due to the size and shape of the packaging, it shall be of **reasonable** dimensions

Must Follow

Is every bottle required to be marked and labelled?



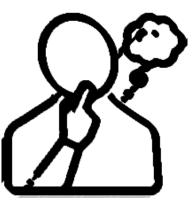
Is every bottle required to be marked and labelled?

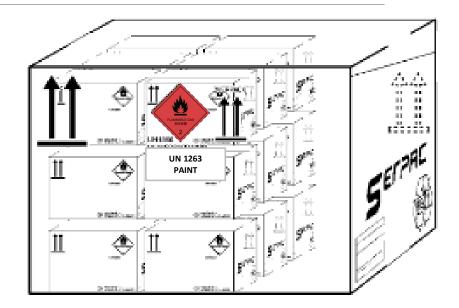


Which one is considered as outermost packaging?

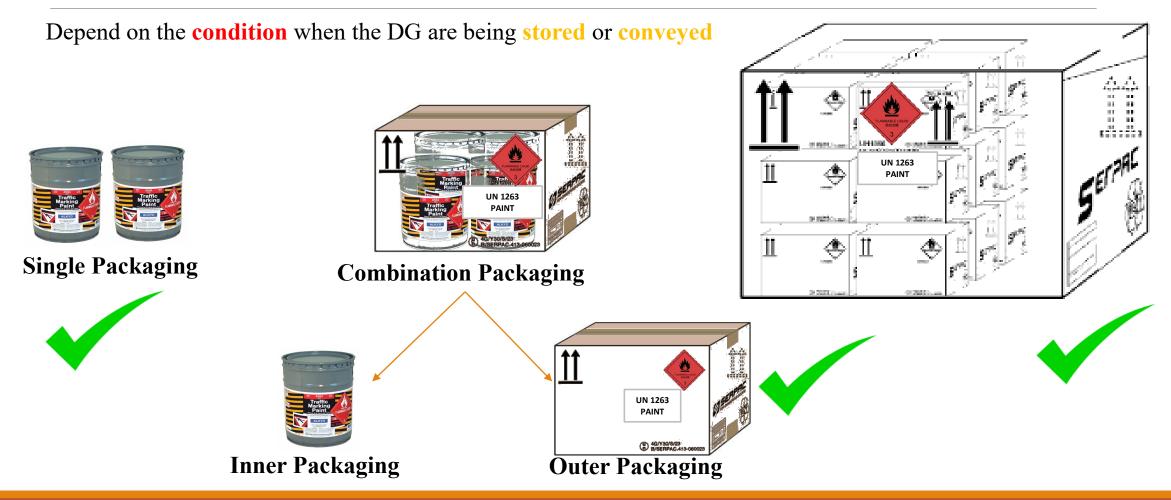




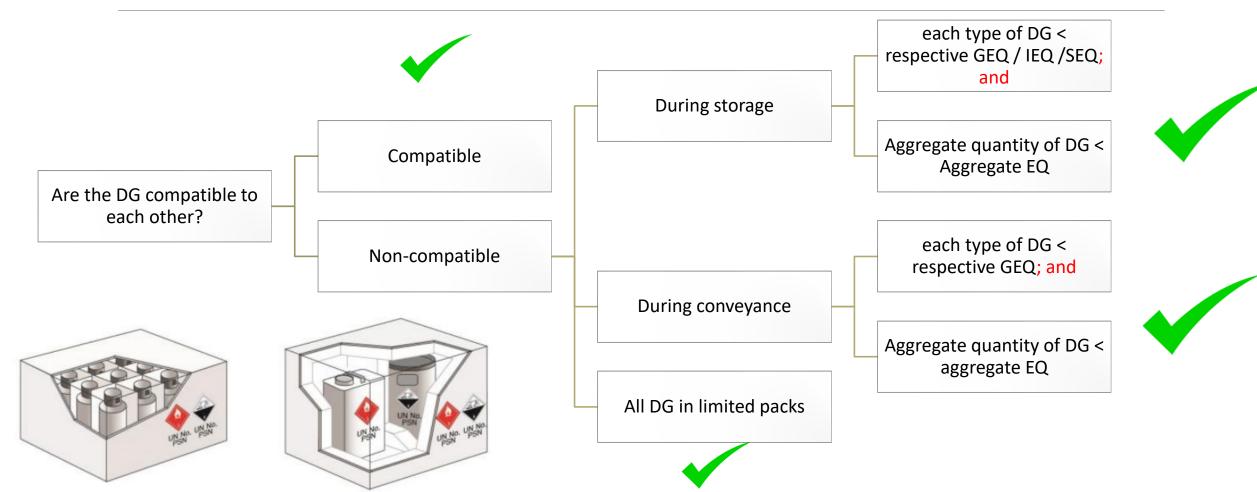




How to define outermost packaging?



Mixed Packing of multiple types of DG



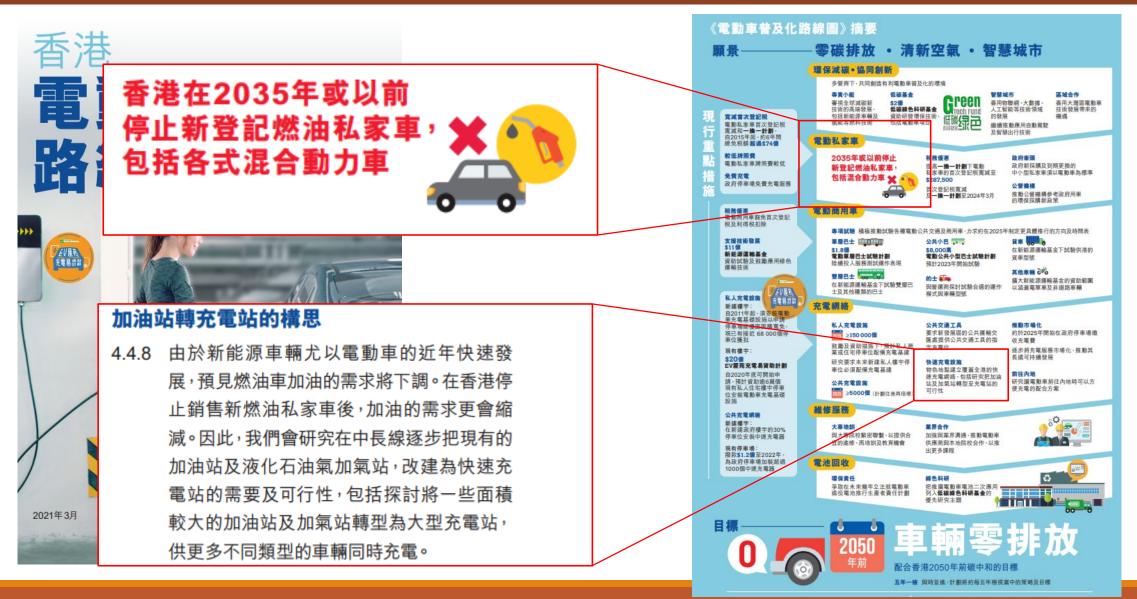


消防處 Fire Services Department

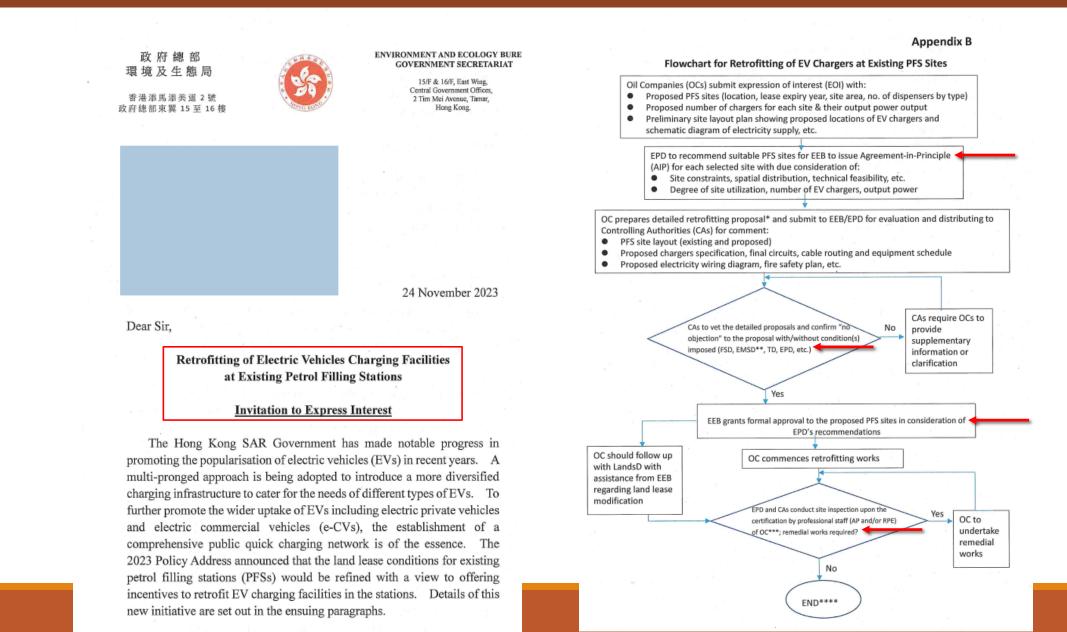
General principles to be observed when installing EV Charging Facilities in Petrol Filling Stations

在加油站安裝電動車充電設施時需要遵守的一般規則

Senior Station Officer TAM Tsz-kin



Express of Interest (EOI)

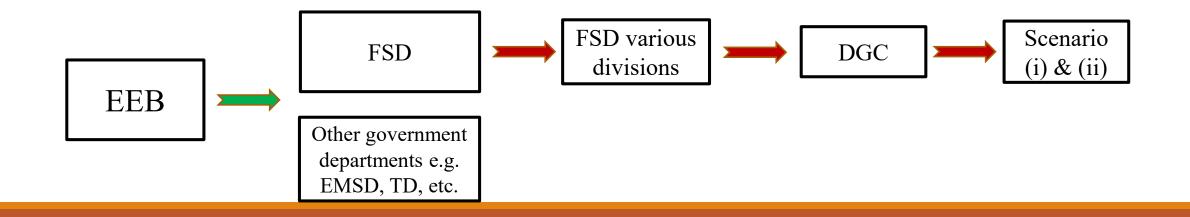


Installation of Electric Vehicle (EV) chargers at PFS

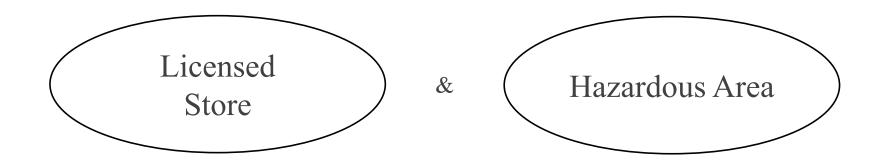
(i) Conversion of existing PFS into charging station

 \rightarrow Cancellation of licence and decommissioning of tank (s.113 of Cap. 295G)

(ii) PFS with EV charging facilities (New Application and Addition of EV)
 → Any changes in approved DG plans



Definition



Under Cap. 295G

Licensed store (持牌貯存所) means a premises the use of which for the storage of S2DG is permitted under a store and use licence, and includes any fixed piping, fittings or equipment designed and constructed for the distribution of the S2DG

持牌貯存所 (licensed store) 指根據貯存暨使用牌照獲准使用作 貯存 S2 危險品的處所,並包括為輸送該 S2 危險品 而設計和建造的固定管道、裝置或設備

(For PFS, licensed store includes the storage tank, dispenser, dispensing hose and nozzle (to its maximum reach), fill point, vent pipe and oil/water separator. 就油站而言,持牌貯存所包括地底貯槽、加油機、加油機油喉和油槍、貯槽的入油點、溢氣管和油水分離器。)

Hazardous area (危險區), in relation to a licensed factory, licensed store or Class 3A premises, means the area of, and adjacent to, the factory, store or premises that is marked as "hazardous area" on the latest plan of the factory, store or premises approved by the Director

危險區 (hazardous area) 就持牌工廠、持牌貯存所或第3A 類處所而言,指在獲消防處處長批准的該工廠、貯存所 或處所的最新圖則上,該工廠、貯存所或處所的區域以及鄰近該工廠、貯存所或處所的區域標記為 "危險區"者

Hazardous Area of PFS





A Guide to Application for

Dangerous Goods Licence and Approval

(for Class 2 to Class 9A Dangerous Goods Excluding Liquefied Petroleum Gas and Other Gases under Gas Safety Ordinance, Cap. 51, Laws of Hong Kong)

Fire Services Department 02/2023

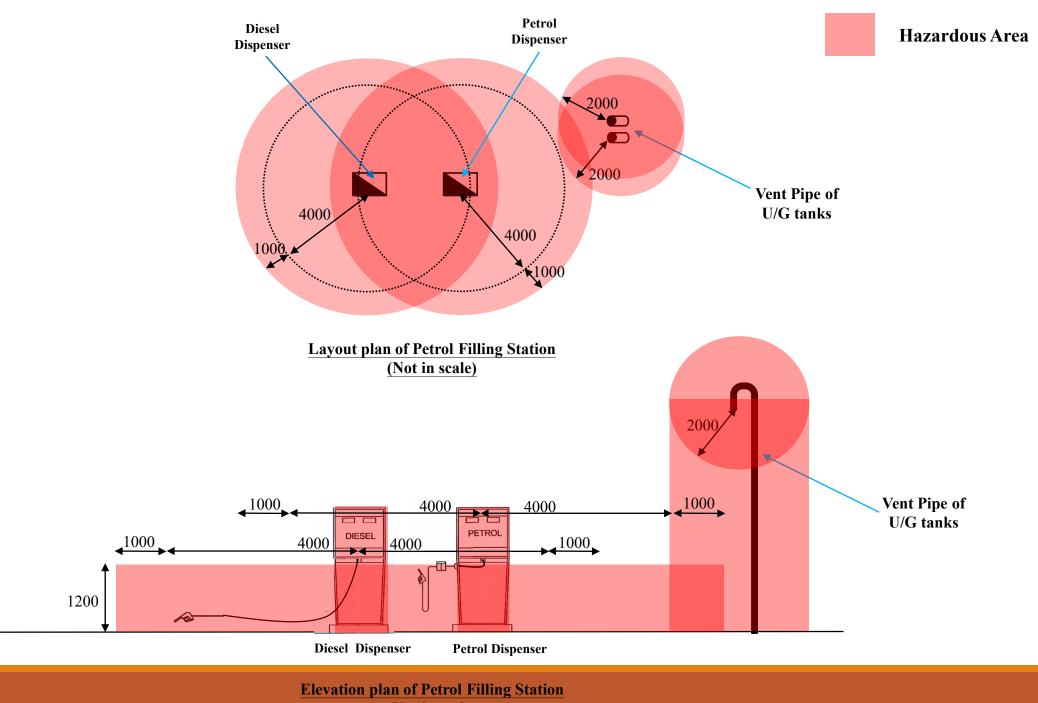
A Guide to Application for Dangerous Goods Licence and Approval (Section 2.2.7 Hazardous Area)

Petrol Filling Station

(c)

- Underground storage tank
 - Every part of a tank
 - > Within tank access chambers which do not have tank filling points
 - Within any access chamber or pit in which there are tanker delivery hose connection point
- Filling point
 - Im radius from tank filling point (aboveground)
 - > 1m radius from edge of the chamber if filling point is below ground
 - > 4m radius of aboveground offset fill connection
- Vent pipe
 - > 2m radius around tank venting point extending to ground
- Road tanker unloading
 - Im radius along the delivery hose route from tanker connection point to the tank filling point
 - > 4m radius of a tanker connection point
 - Im radius around the tanker connection point including vapour return hose connections extending to ground
 - > 1m radius around vapour return hose connection point
- Dispenser
 - > Every part of a dispenser
 - Area covered by a hose length plus 1m extending to 1.2m from ground
- Oil / water separator
 - Within a separator
 - Within the access chamber of a separator
 - 2m radius from the edge on a separator
 - > 1m radius around a venting point of a separator

(URL Link: https://es.hkfsd.gov.hk/dg/en/)

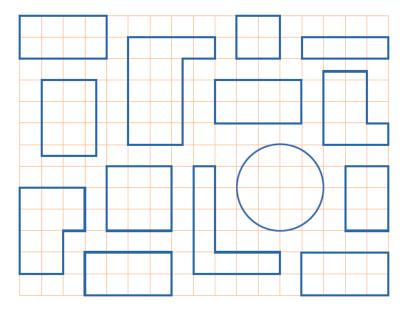


(Not in scale)

- Ch.12 of Hong Kong Planning Standards and Guidelines
- FSD Circular Letter No. 4/2020

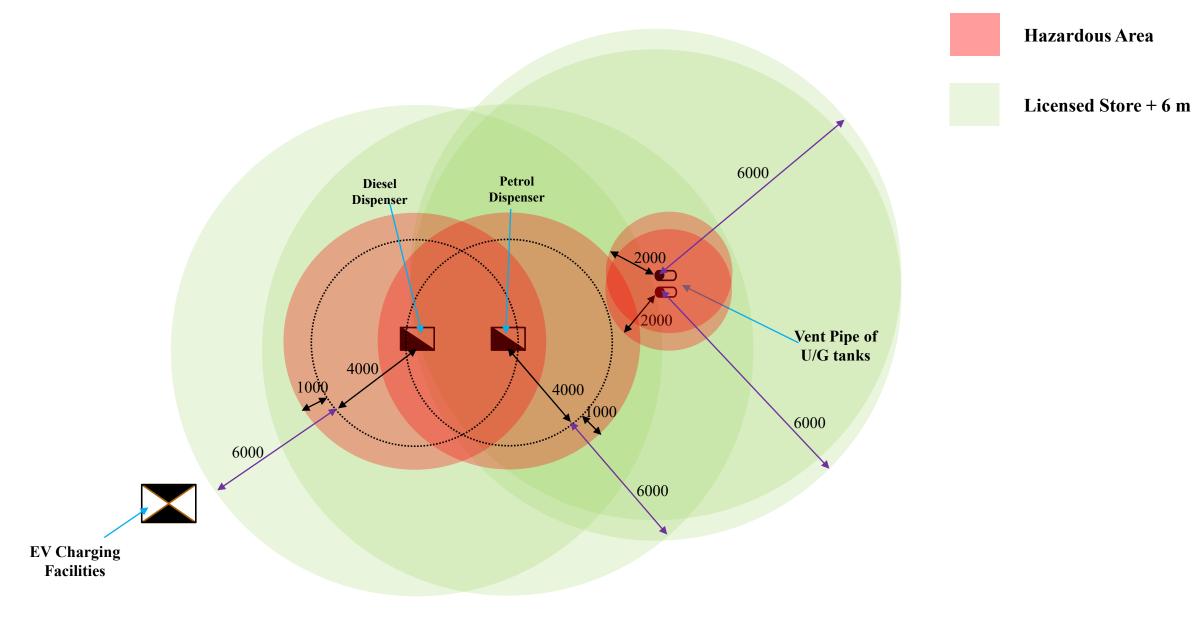
• General Principles





3.9 Special Requirements Relevant to EV Charging Stations

- 3.9.1 EV charging facilities should not be co-located with the vehicular fuel filling facilities in the same PFS in view of the cumulative risks arising from the electrical installation and fuelling facilities.
- 3.9.2 For the siting of an EV charging station, the applicant should consult the Environmental Protection Department (EPD) who will liaise with the relevant controlling authorities (e.g. TD) in this aspect.
- 3.9.3 The charging points should be located to enhance internal circulation and avoid vehicle queue formation onto the adjacent roads.
- 3.9.4 A minimum of two waiting spaces should be provided in each EV charging station to avoid the awaiting vehicles to queue on public roads. Signage(s)/indicator(s) should be erected at the prominent location of the ingress to display the availability of EV charger(s).
- 3.9.5 EV charging facilities should be separated by at least 6 metres from any licensed store under the Dangerous Goods Ordinance (Cap. 295). Depending on the design and modes of charging, additional separation may be imposed by the controlling authority of the EV charging facilities.
- 3.9.6 EPD will take lead to liaise with the controlling authorities about environmental, electrical, traffic and fire safety (including means of access/escape and mitigation of "off-site"/"on-site" risks) requirements, as well as planning, construction, installation, operation and maintenance of PFS solely used for EV charging station. For both provision of new EV charging station and conversion of existing PFS to EV charging station; or any exceptional circumstances, the applicant of EV charging station should consult the EPD who will liaise with the relevant authorities in these aspects.



FSD Circular Letter No. 4/2020

-Fireman's emergency switch -Fire Extinguishers

處 安全總區 明東部唐莊道一號 消防總部大庫七樓

FIRE SERVICES DEPARTMENT FIRE SAFETY COMMAND

7/F. Fire Services Headquarters Building. No. 1 Hong Chong Road, Tsim Sha Tsui East, Kowloon.

Hong Kong.

處檔號	OUR REF.:	(48) in FSD FSC GR 13-314/07 IV				
《函檔號	YOUR REF .:					
1文傳真	FAX:	852-2312 0376				
1 話	TEL. NO.:	852-2170 9595				
住子郵件	E-MAIL:	fschq@hkfsd.gov.hk				
			31 st	July	2020	

To: Recipients of FSD Circular Letters

Dear Sirs/Madams,

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FSD Circular Letter No. 4/2020 Additional Fire Safety Requirements for Car Parking Facilities installed with Electric Vehicle Charging Facilities

This Circular Letter serves to announce the additional fire safety requirements for car parking facilities, installed with electric vehicle (EV) charging facilities to the Code of Practice for Minimum Fire Service Installations and Equipment, 2012 (FSI Code).

2. Due to the increasing trend on popularity of EVs and related fire incidents worldwide, FSD has taken the initiative to conduct a study on the potential fire hazard in connection with EVs, especially during battery charging of EVs. Having considered that the car parking facilities, where EV charging facilities are installed, may have inherent risks to both the general public and firefighters, additional fire safety requirements for those car parking facilities installed with EV charging facilities have to be imposed as follows:

- Fire detection system with heat or multi-sensor detecting type, shall (a) be provided as follows (except those provided with sprinkler system) :
 - For those with a total floor area not exceeding 230m², the i. entire car parking facilities shall be covered by the fire detection system.
 - ii. For those with a total floor area exceeding 230m², the areas installed with EV charging facilities shall be covered by the fire detection system.
 - The fire detection system shall be installed in accordance iii. with British Standard 5839: Part 1 or other standards acceptable to the Director of Fire Services and linked to the fire alarm system.

A direct line connection to the Fire Services Communications Centre is not required if the car parking facilities are situated in domestic buildings where the provision of direct line					
connection is not mandatorily required.					
	ry powder or carbon dioxide type fire extinguisher shall be rided at each hose reel point.				

- 2 -

(c) Fireman's emergency switch shall be provided at vehicle entrance(s), fire control centre or other locations as considered acceptable by the Director of Fire Services. Details of the switch are provided in the Appendix.

3. The requirements as stipulated in paragraph 2 above shall not be applicable to the car parking facility of a single-family domestic building up to and including three storeys in height, except a car parking facility situated in basement.

4. The additional requirements will take effect from 1 September 2020 for all initial building plan submissions. Building plans submitted before 1 September 2020 and all existing buildings planned with the EV charging facilities are advised to enhance the fire safety provisions as stated in the foregoing paragraph for the sake of fire safety. For those recent submissions, you are encouraged to voluntarily incorporate the additional requirements for EV charging facilities in your amendment submissions.

5. For enquiries, please contact our Senior Divisional Officer (New Projects) at 3971 4600.

Yours faithfully,

(CHUI Man-hung) Director of Fire Services

Encl.

(b)

General Principles to be observed when installing EV charging facilities at PFS:

(i) EV charging facilities should be <u>separated by at least 6 metres from any licensed store</u> under the Dangerous Goods Ordinance (Cap. 295). Depending on the design and modes of charging, additional separation may be imposed by the controlling authority of the EV charging facilities;

(ii) No EV charging facilities including the associated electric cables nor any vehicle connected to the EV charging facilities shall be <u>located inside</u>, above or beneath the hazardous area as defined under the Cap. 295 of the Petrol Filling Station;

(iii) No petrol or diesel shall flow in the <u>close proximity of the EV charging area or EV charging</u> <u>facilities</u>;

(iv) <u>All conditions</u> of the store and use licence(s) should be <u>complied</u> with by the licensee <u>at all times</u>; and

(v) <u>Fireman's emergency switches</u> for EV charging facilities shall be provided at vehicle entrance(s) or fire control centre to cut off the electric power supply of all EV charging facilities within the site.



消防處 Fire Services Department

Points to Note for Installing Dangerous Goods Vehicle Tail Lift Safety Device

安裝危險品車輛尾板安全系統時的注意事項

Senior Station Officer PANG Tsz-kan

Background







Background

貨車尾板操作要小心 六年奪三命

撰文:洪琦琦梁嘉瑜 出版:2016-06-22 21:00 更新:2016-06-23 12:35

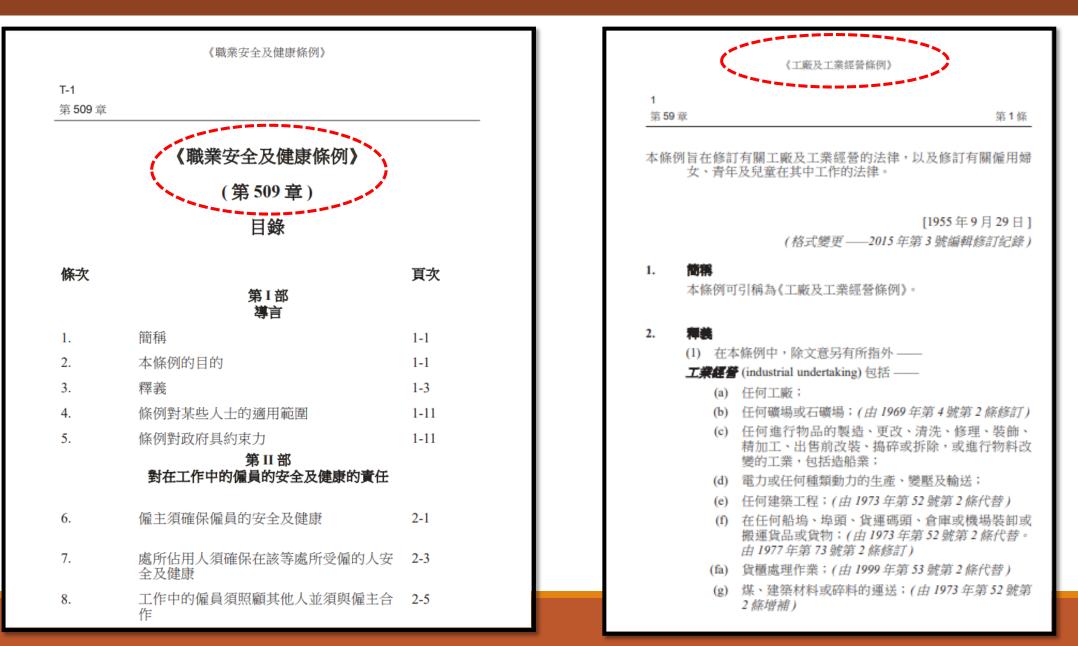


六年內與貨車尾板相關的意外事件

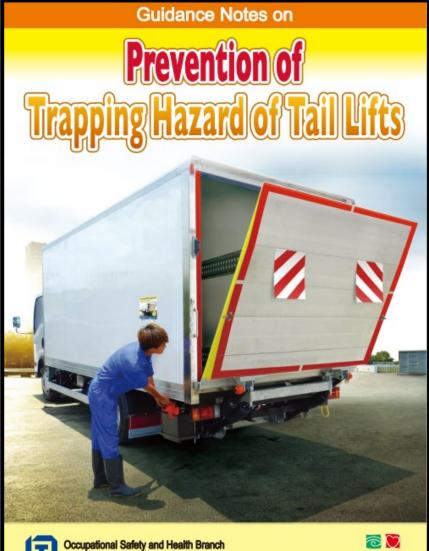
2010年10月,曾姓貨車司機在青衣永基路工作期間,一邊操控尾板升降, 一邊伸頭入車斗內視察,頭顱被尾板夾着,幸跟車工人醒目,及時將尾板 按停,雖然不致被夾爆頭,但左臉頰仍被夾傷,須送往醫院治療。 2012年12月,貨車司機張春生駕駛密斗貨車往機場超級一號貨站送貨,疑 操作尾板關上期間探頭查看車斗,因未能及時「抽身」,頭部被尾板夾困 軍傷。



Legal Requirements and Regulations



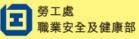
Legal Requirements and Regulations



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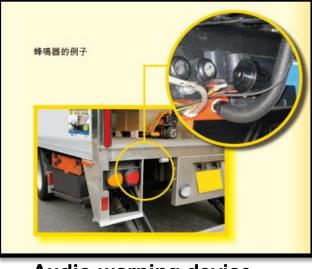
Tail lift on Dangerous Goods Vehicle



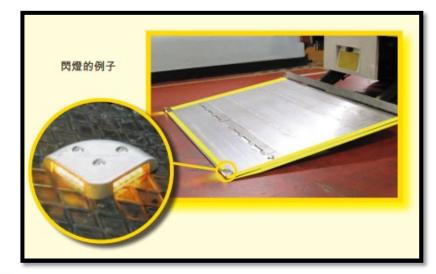
Requirements



Two-hand control device



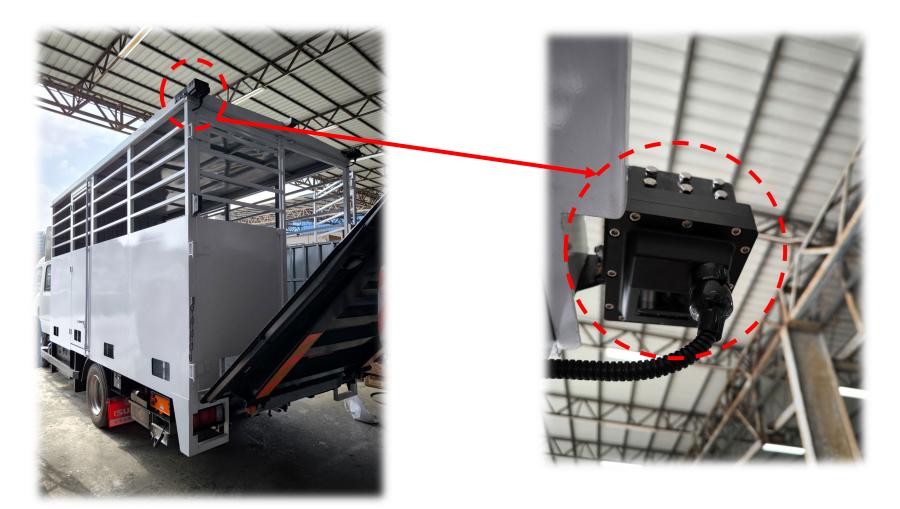
Audio warning device



Visual warning device

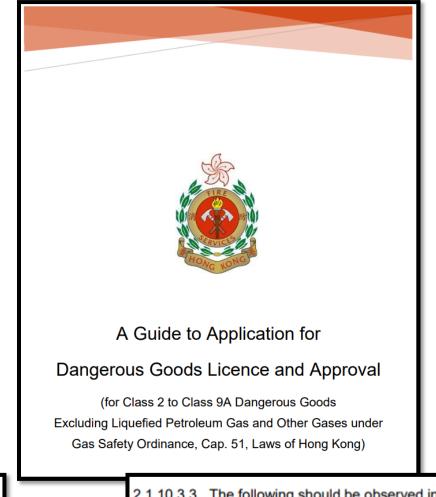
Requirements

Tripping Dervice



FSD Requirements





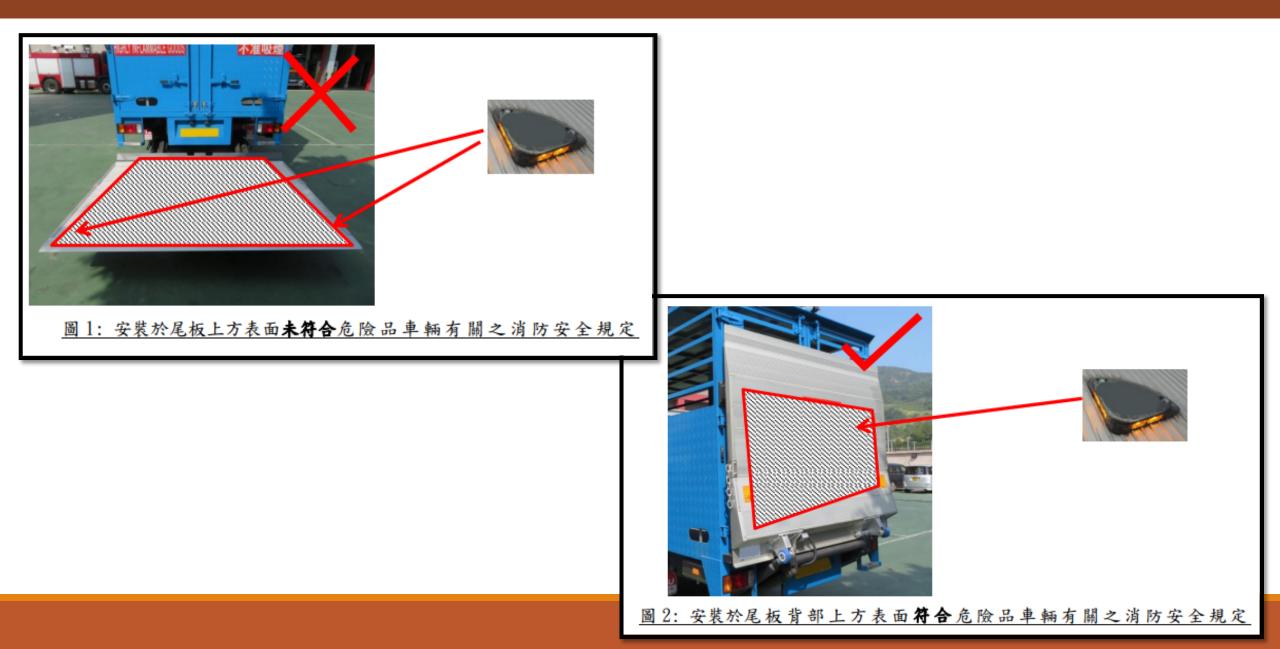
2.1.10.3.3 The following should be observed in relation to stowage of DG:

(a) Do not install electric wiring / device in DG stowage area;

Standard Fire Safety Requirements		電力裝置及配件
5	Electrical Installation and Fittings	除設計和製造為本質安全,且不具有任何易產生火花的金屬表面的便攜式照明設備外,不應在車輛上裝載任何可引致火警或爆炸的物件或照明設備。
5.1	No article capable of causing fire or explosion and no lighting apparatus except such portable lighting apparatus designed and constructed to be intrinsically safe and not exhibiting any metal surface liable to produce sparks should be carried on the vehicle.	
5.2	All electric wiring shall be heavily insulated and resistant to abrasion and chemical action. The wiring fixed at positions behind the fire resisting shield shall be run in flexible metal conduit.	· · · · · · · · · · · · · · · · · · ·
5.3	A safety cut-off switch shall be fitted in the driver's cab to isolate the electrical system from the battery. This installation shall be indicated in English letters and	電路的標稱電壓不得超過24伏特。
5.4	Chinese characters on the door of the vehicle and on the position inside the cab. The nominal voltage of the electrical circuit shall not exceed 24 volts.	

標準消防安全規定

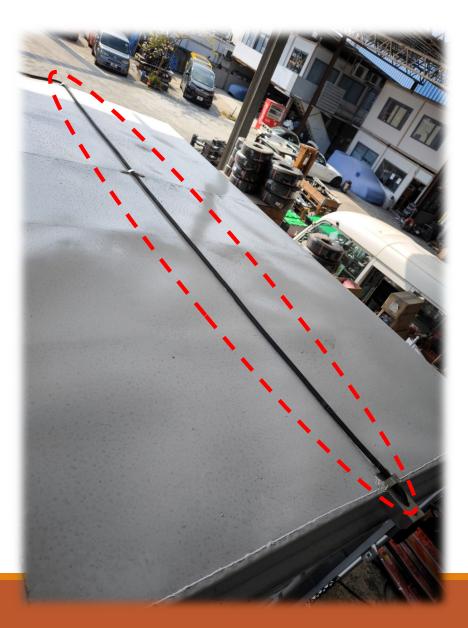
Points to note



Standard Fire Safety Requirements		5.	電力裝置及配件
5 5.1	Electrical Installation and Fittings No article capable of causing fire or explosion and no lighting apparatus exc	cept	除設計和製造為本質安全,且不具有任何易產生火花的金屬表面的便攜式照明設備外,不應在車輛上裝載任何可引致火警或爆炸的物件或照明設備。
such portable lighting apparatus designed and constructed to be intrinsically and not exhibiting any metal surface liable to produce sparks should be carri- the vehicle.		所有電線須高度絕緣,並能抵抗磨損和具有抗化性能。位於防火板後的電線 須套上金屬軟管。	
5.2	All electric wiring shall be heavily insulated and resistant to abrasion and che action. The wiring fixed at positions behind the fire resisting shield shall be flexible metal conduit.		安全斷流掣須安裝於駕駛室內,以便切斷電力系統與電池間的電流,並在車門上及駕駛室內以中英文字標明此裝置。
5.3	A safety cut-off switch shall be fitted in the driver's cab to isolate the electron system from the battery. This installation shall be indicated in English letters Chinese characters on the door of the vehicle and on the position inside the ca	and	電路的標稱電壓不得超過24伏特。
5.4	The nominal voltage of the electrical circuit shall not exceed 24 volts.		

標準消防安全規定

Points to note





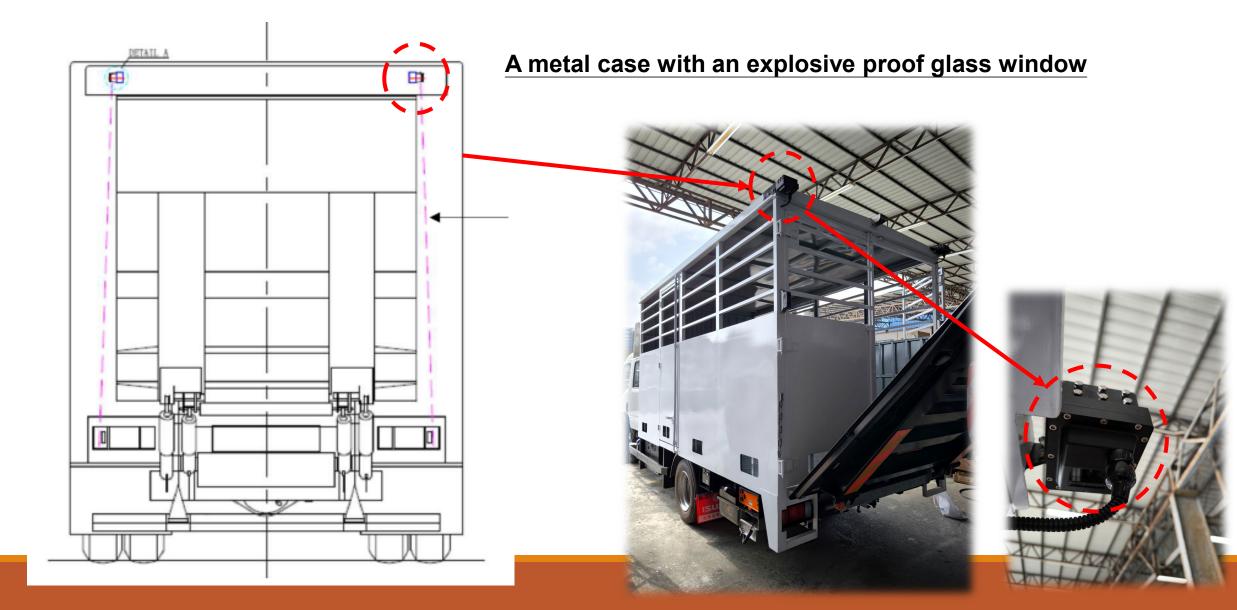
Standard Fire Safety Requirements 電力裝置及配件 5. **Electrical Installation and Fittings** 除設計和製造為本質安全,且不具有任何易產生火花的金屬表面的便攜式照 明設備外,不應在車輛上裝載任何可引致火警或爆炸的物件或照明設備。 5.1 No article capable of causing fire or explosion and no lighting apparatus except such portable lighting apparatus designed and constructed to be intrinsically safe 所有電線須高度絕緣,並能抵抗磨損和具有抗化性能。位於防火板後的電線 and not exhibiting any metal surface liable to produce sparks should be carried on the vehicle. 須套上金屬軟管。 5.2 All electric wiring shall be heavily insulated and resistant to abrasion and chemical 安全斷流掣須安裝於駕駛室內,以便切斷電力系統與電池間的電流,並在車 action. The wiring fixed at positions behind the fire resisting shield shall be run in flexible metal conduit. 門上及駕駛室內以中英文字標明此裝置。 A safety cut-off switch shall be fitted in the driver's cab to isolate the electrical 5.3 電路的標稱電壓不得超過24伏特。 system from the battery. This installation shall be indicated in English letters and Chinese characters on the door of the vehicle and on the position inside the cab. The nominal voltage of the electrical circuit shall not exceed 24 volts. 5.4

標準消防安全規定

Points to note



Points to note



Senior Station Officer PANG Tsz-kan

3850 8475



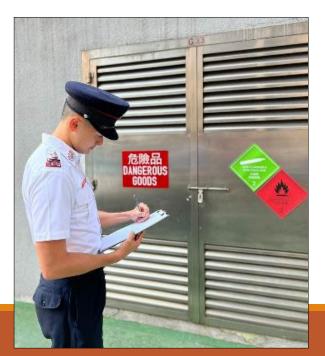
More Information

- General Enquiry:
 - hkfsd_dg_enq@hkfsd.gov.hk
- Code of Practice, "Application Guide", Pamphlets, Videos:
 - ➔ DG Thematic Website (www.hkfsd.gov.hk/dg)



More Information

- Manufacture, Storage and Use of DG
 - → Dangerous Goods Control Division (2417 5757)
- Conveyance of DG, Pressure Receptacles & Approved Persons
 - → Dangerous Goods Enforcement Division (3850 8487)





Report Fire Hazards

- DG or IFA Complaints:
 - → Fire Services Communication Centre

2723 8787 (24-hour)







消防處 Fire Services Department

