

FSD Connects with the Relevant Industries of Dangerous Goods

AGENDA

Introduction

Mr. CHAK Ka-chun

Topic 1: Points to Note for Licence / Approval Application for Fuel Tank Room (FTR)

Mr. KONG Kei-koi

Topic 2: Common Errors in Application for Pressure Receptacle

Mr. CHAU Choi-lung, Stephen

Q & A Session

All Speakers



Points to Note for Licence / Approval Application for Fuel Tank Room (FTR)

燃料缸室危險品牌照或批准申請 需要注意的事項

Senior Station Officer
KONG Kei-koi
Dangerous Goods Control Division
Licensing and Certification Command
Fire Services Department

Objective – Identification and Correction of Common Discrepancies and Irregularities

Licence / Approval / Exemption

Documents

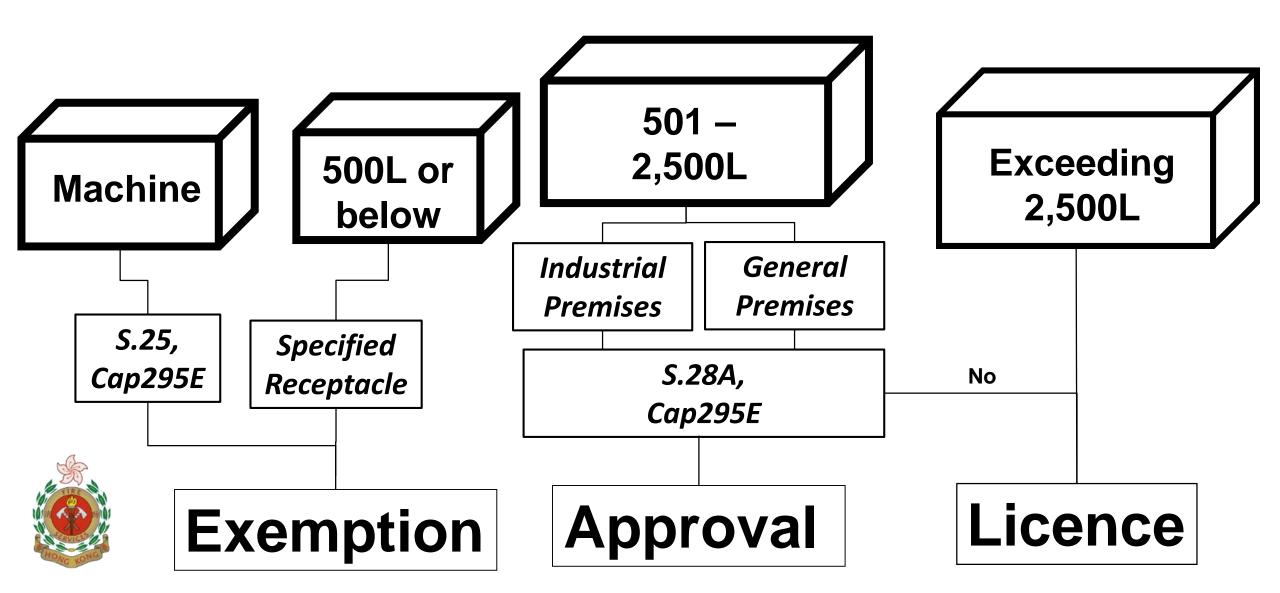
Drawing

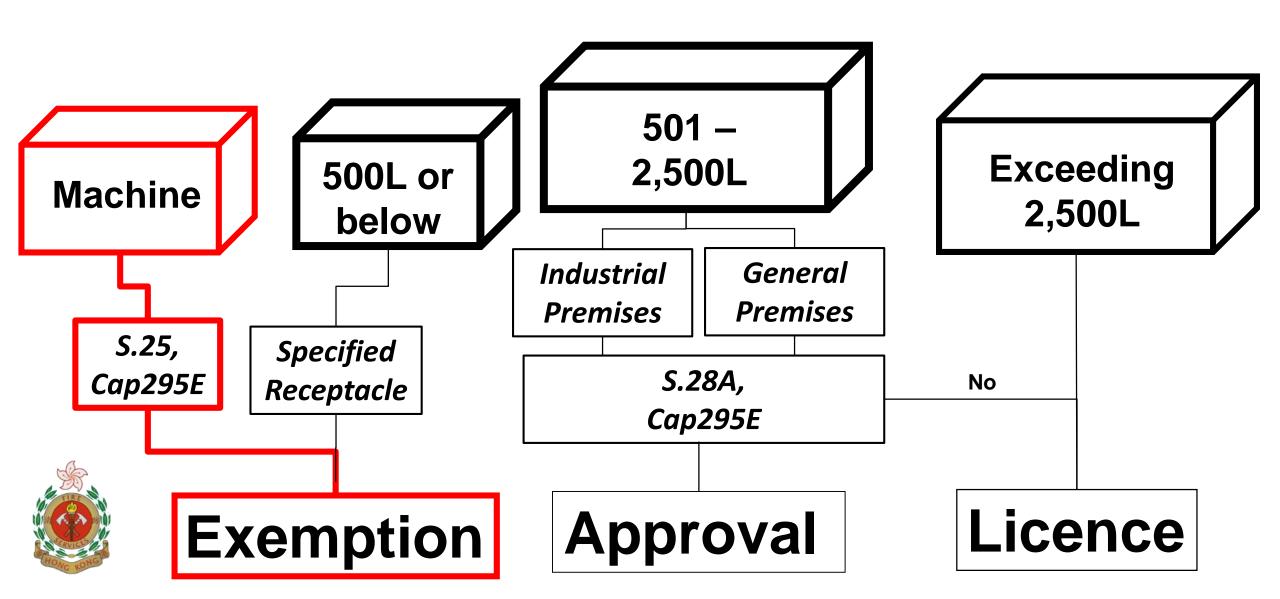


Calculation

Inconsistence

Exemption / Approval / Licence





Exemption

Cap. 295E Dangerous Goods (Application and Exemption) Regulation 2012

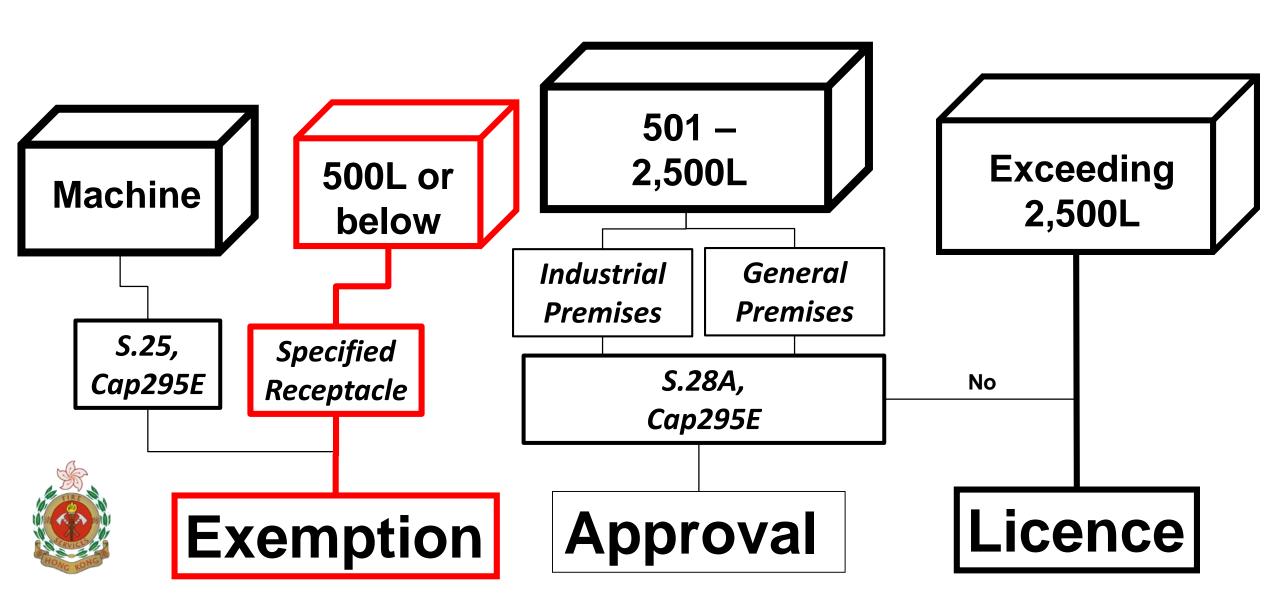
25. Schedule 2 dangerous goods forming part of machinery etc.

- A receptacle permanently installed in any machinery
- Forming part of any machinery
- Used or intended to be used for the proper functioning of the machinery

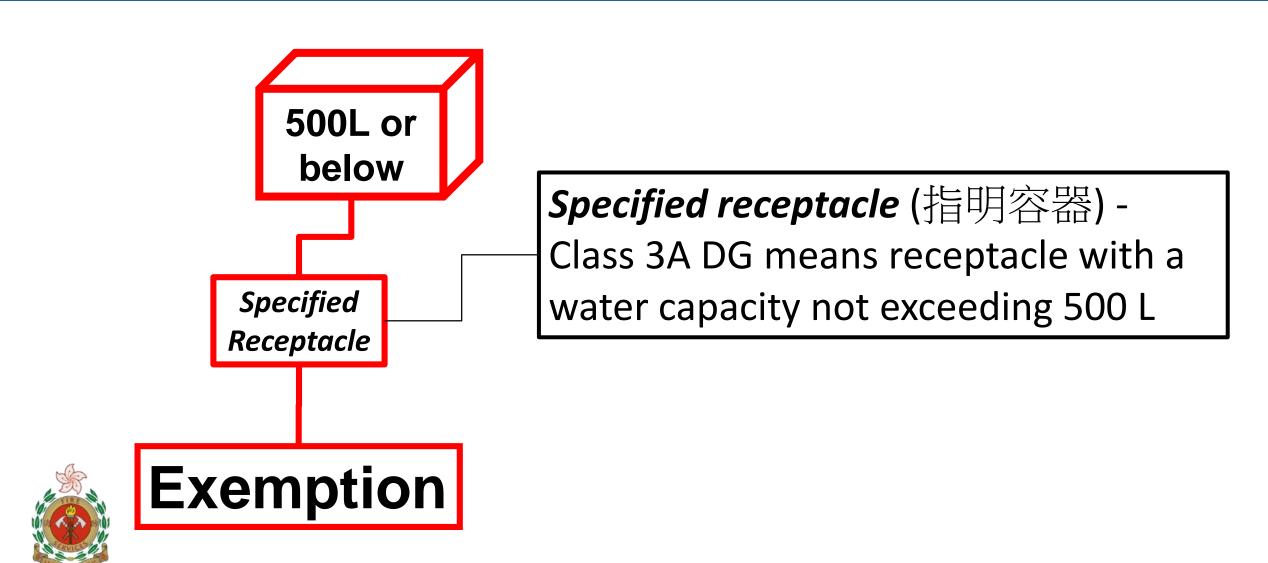




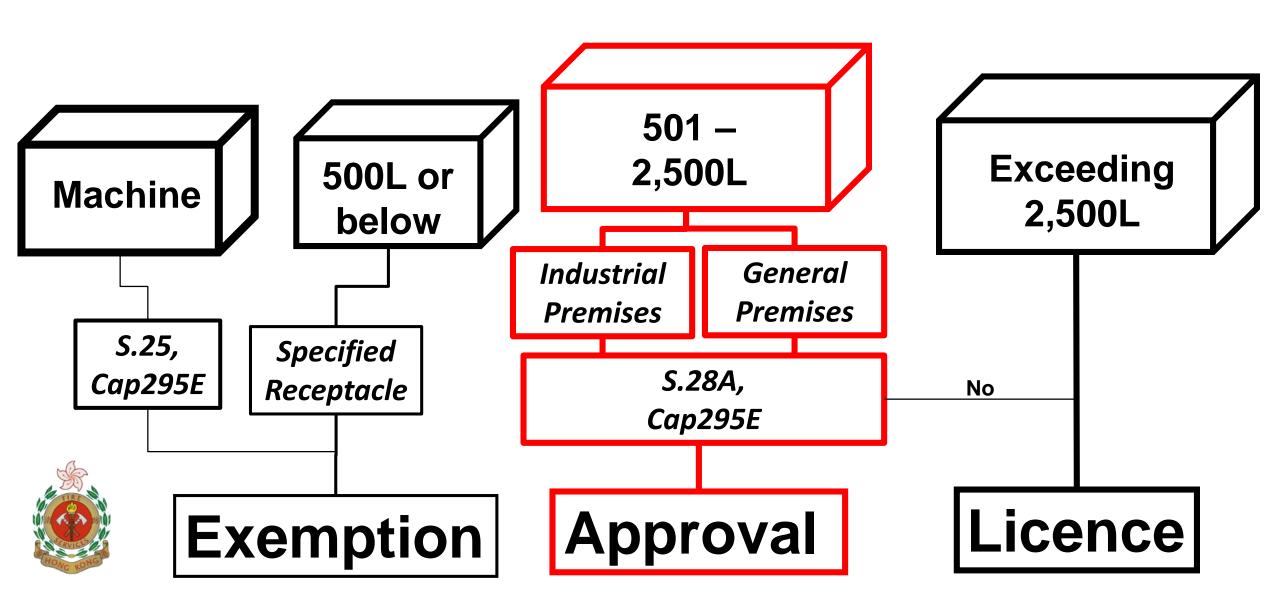
Exemption



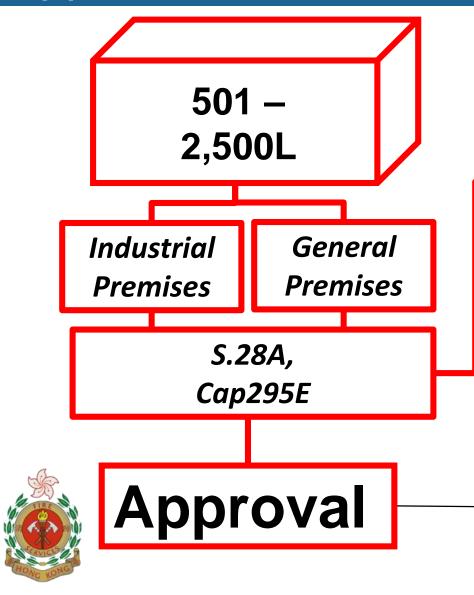
Exemption



Approval



Approval

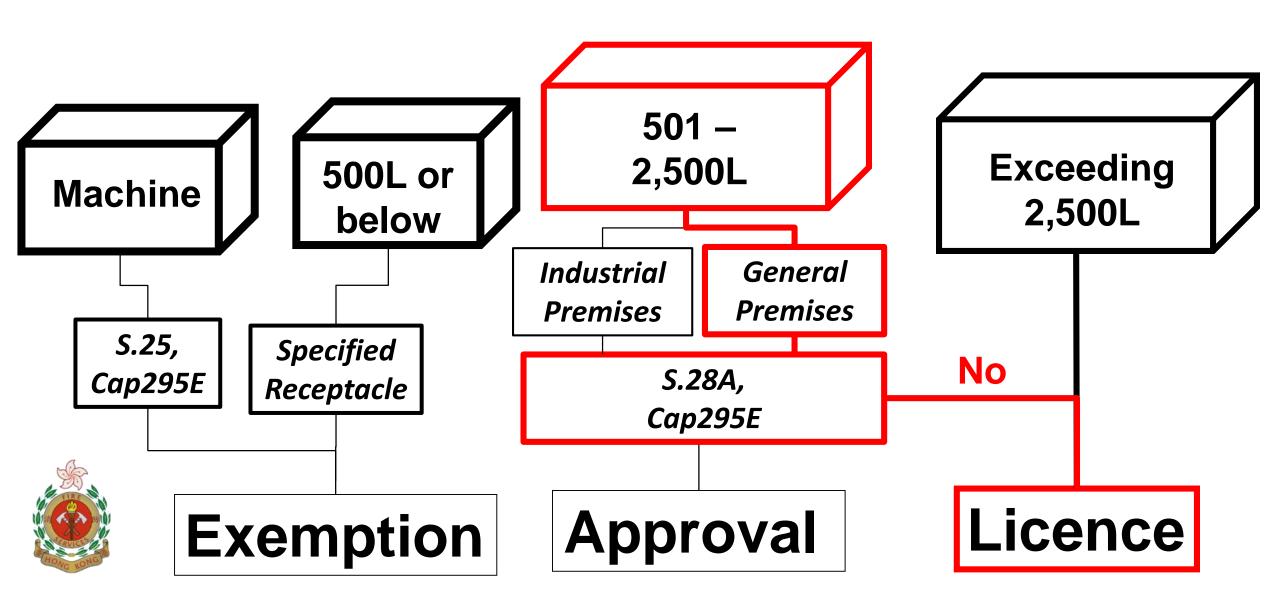


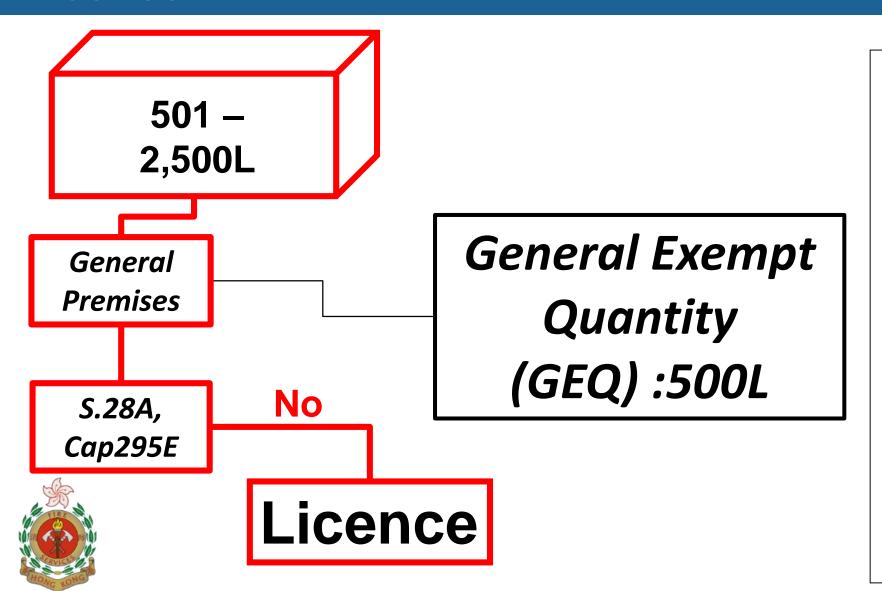
28A. Storage and use of Class 3A dangerous goods used as fuel under certain circumstances

- Emergency generator for FSI
- Emergency power backup facility
- Industrial undertaking carried out in industrial premises
- Aggregate quantity does not exceed 2,500L

Approved tank (獲准貯槽) means a tank approved by the Director of Fire Services

Class 3A Premises 第3A類處所





牌照編號 Licence No. L001234

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

香港特別行政區政府 Dangerous Goods Ordinance Chapter 295 Section 6 and Section 9 危險品條例

危險品條例 第二百九十五章 第六條及第九條

STORE AND USE LICENCE FOR SCHEDULE 2 DANGEROUS GOODS (S2DG)

S2 危險品貯存暨使用牌照

1.	Name of the licensee	
	Address I Allander Available Available	ARC Limited

 Particulars of S2DG permitted to be stored or used 獲定時左或使用的 S2 条除品的丝槽

Several (1-3400) (14) 4-2 (Several 14-14)					
UN number/	Proper Shipping Name	Class	Subsidiary Hazard	Packing Group	Maximum quantity for
HK number	正式運輸名稱	類別	次要危險性	包裝類別	the storage and use in
聯合國編號/					aggregate
香港編號					總共貯存和使用的最多
					分量
i) H301	DIESEL	Class 3A	None	PGIII	1,494 litres
ii) H301	DIESEL	Class 3A	None	PGIII	1,494 litres
iii) H301	DIESEL	Class 3A	None	PGIII	1,437 litres

Particulars of the license

有關持牌貯存所的詳情

(a) Address of the store 貯存所的地址 38 ABC Road, Sheung Shui, N.T.

iii)A Fuel Tank Room on R/F of Tower 8

(b) Location(s) at which the S2DG may be stored 可符件有關 \$2 危險是的地震。i)A Fuel Tank Room on R/F of Tower 1; ii)A Fuel Tank Room on R/F of Tower 2; and

4. Location(s) at which the S2DG may be used

可使用判關 52 危險品的地點 () Generator Room on R/F of Tower 1; ii) Generator Room on R/F of Tower 2; and iii) Generator Room on R/F of Tower 8

Prescribed fee for the licence 際照的訂明費用

6. Date on which the licence is first granted

首次批給牌照的日期 25/07/2023

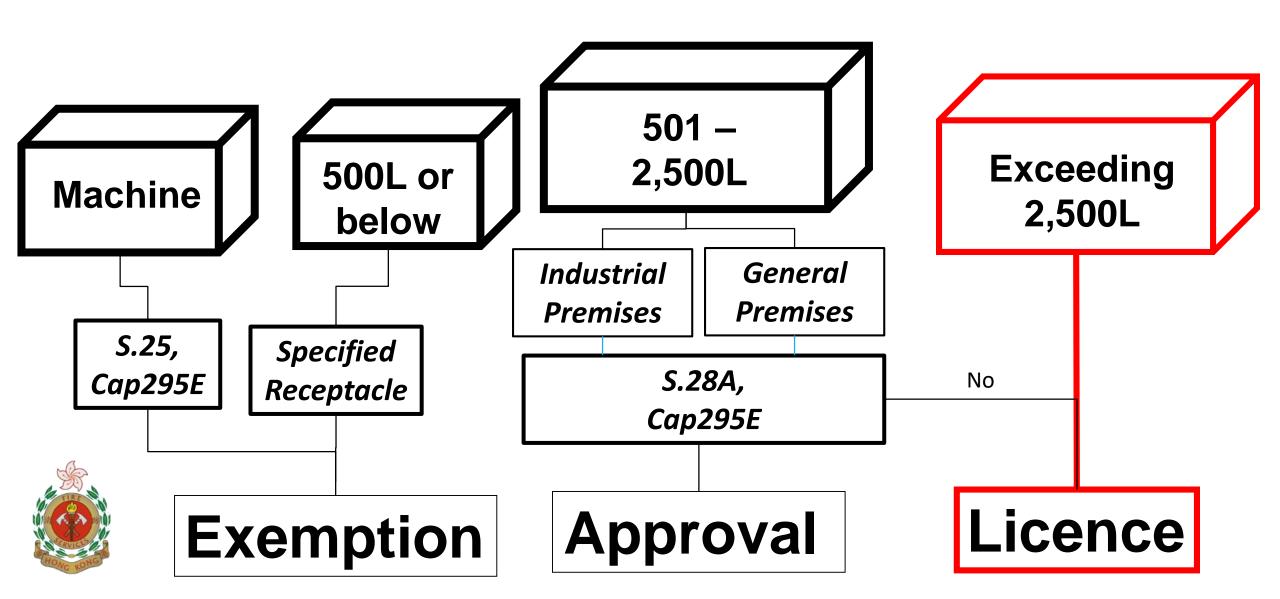
Validity period of the licence

牌照的有效期 25/07/2023 - 24/07/2024

This licence is subject to the endorsed conditions overleaf.
 太陽服母後育已掛針的條件所規限。

() for Director of Fire Services 消防處處長 (代行)

FSD Ref. () in NTN12/85092(I) 消防處檔案編號 FS 163(Rev. 4/2022)



Application Procedure

Stage	Procedure	
Pre- Application	General Building Plans (GBP)	屋宇署 BUILDINGS DEPARTMENT
1	1 Application	
2	Issue Fire Safety Requirements (FSR)	
3	Compliance Inspection	HONG YONG
4	Issue Licence/ Approval	



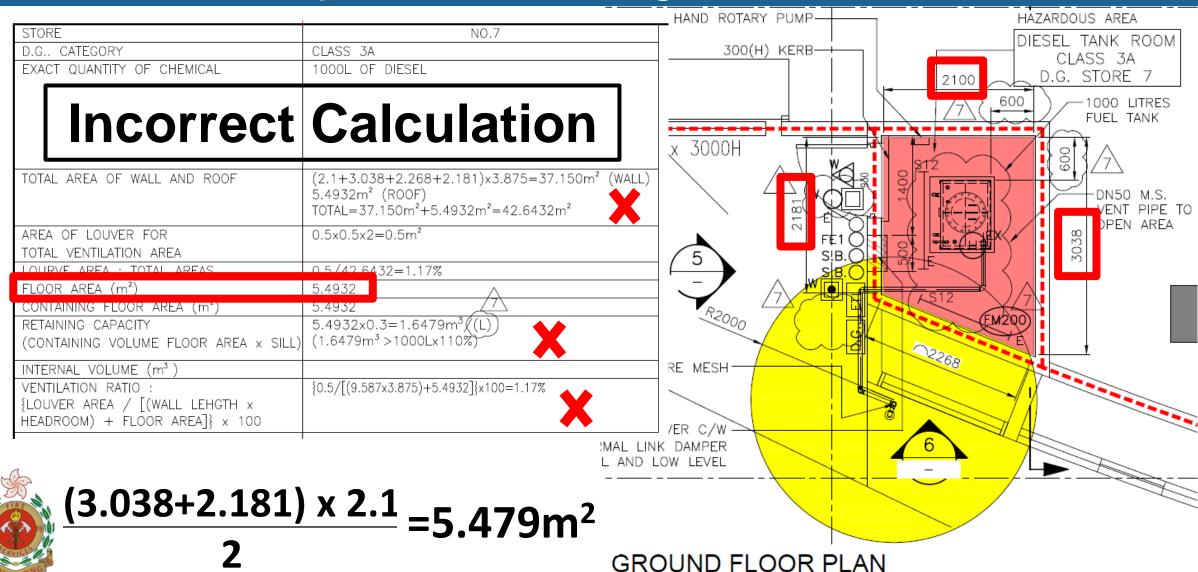
Application Form

*	a layout plan in A4 size showing location(s) at which the S2DG may be used 一份以 A4 頁面顯示有關附表 2 危險品使用地點的平面圖 *Please refer to Application Guide for details *詳情請參閱申請指南 #Please submit plan if the location is inexplicable as an address #如無法以地址說明,須提交圖則說明	-	✓ Store and Use Licence 貯存暨使用 牌照	✓ Store and Use Licence 貯存暨使用 牌照
	2 sets of drawings showing the hazardous area 兩套顯示危險區的圖則 *Please refer to Application Guide for details *詳情請參閱申請指南	-	~	√
◆	2 sets of the following drawings regarding the proposed factory/store, including but not limited to- a) Block plan b) Floor plan c) Section plan d) Elevation plan 兩套有關工廠/貯存所的圖則,包括但不限於 a) 樓宇平面圖 b) 樓層平面圖 c) 側面圖 d) 立視圖 *Please refer to Application Guide for details *詳情請參閱申請指南 #Submission of plan is required if there is any alteration to the factory/store #如持牌人對工廠/貯存所作出任何更改,須提交關圖則	√ #	~	√ #
*	a copy of relevant Safety Data Sheet(s) 一份化學品安全技術說明書副本	-	✓	✓



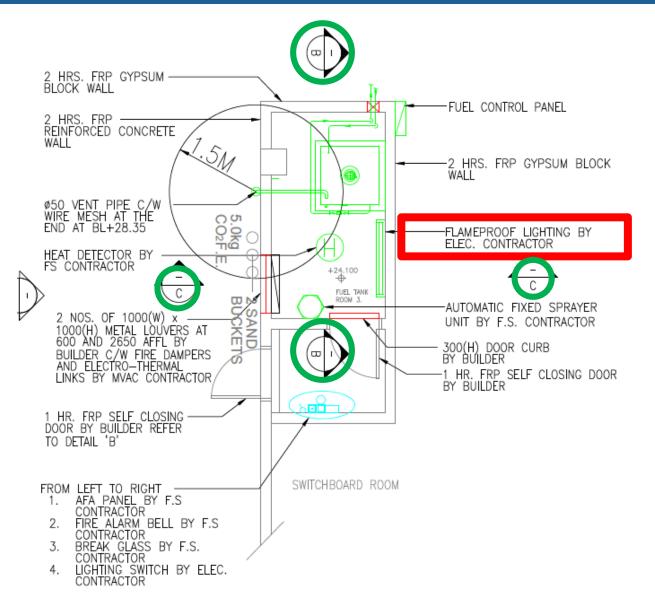
Sect	ion E 戊部			
Part 6: Supporting documents 第六部份:證明文件				
	following documents are submitted herewith for appl	lication 就此申請夾	附下列文件	
		Renewal Application under Cap. 295B/	Licence Application under Cap. 295G 申請牌照	
		Cap. 295G 根據第 295B /295G 章 申請續牌	New Applicant 新申請人	Cap. 295B Licensee 第 295B 章 牌照持有人
	a copy of the applicant's identity proof – HKID card / Business Registration Certificate —份申請人的身份證明文件副本 — 香港身 份證 / 商業登記證	✓	~	~
*	a copy of the agent's identity proof – HKID card / Business Registration Certificate (applicable to applications submitted by agent) — 份代理人的身份證明文件副本 — 香港身份證 / 商業登記證 (適用於由代理人辦理的申請) *Please fill in Section F *請填寫己部	·	~	~
	an authorisation letter from the applicant (applicable to applications submitted by agent) 申請人授權書 (適用於由代理人辦理的申請) *Please fill in Section F *請填寫己部	~	√	~
	a copy of a Periodic Test Certificate (Form WR2) 一份定期測試證明書(表格 WR2)副本	~	-	✓
	a copy of a Certificate of Fire Service Installations and Equipment (FS 251) 一份消防裝置及設備證書(FS 251)副本	~		✓
*	a copy of annual inspection report for test and inspection performed, in respect of tanks or pipelines used for storage of gases, by persons approved by the Fire Services Department 一份消防處認可的人士檢測貯槽 / 氣體管道 裝置周年檢驗報告副本	~		~
	a written explanatory statement supplemented with diagram(s), if applicable, demonstrating the way of manufacture of the S2DG 一份有關附表 2 危險品的製造方法陳述書及 圖解副本(如適用)	-	✓ Manufacture Licence 製造牌照	✓ Manufacture Licence 製造牌照

Common Discrepancies and Irregularities



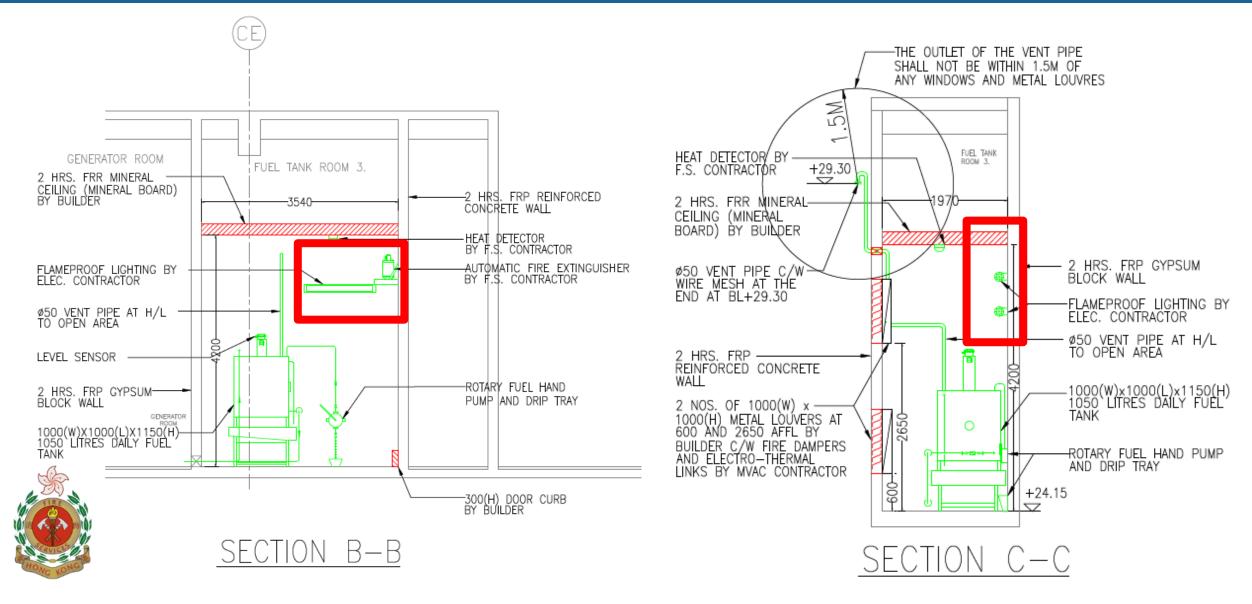
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Common Discrepancies and Irregularities (Inconsistent Drawings)





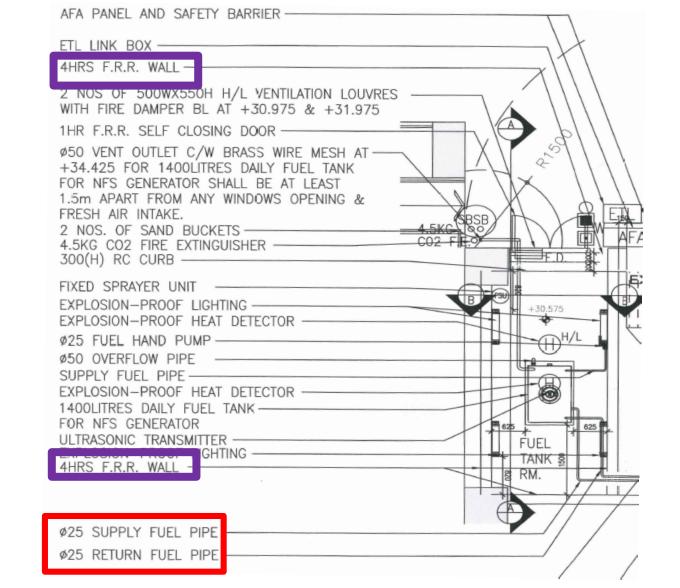
Common Discrepancies and Irregularities (Inconsistent Drawings)



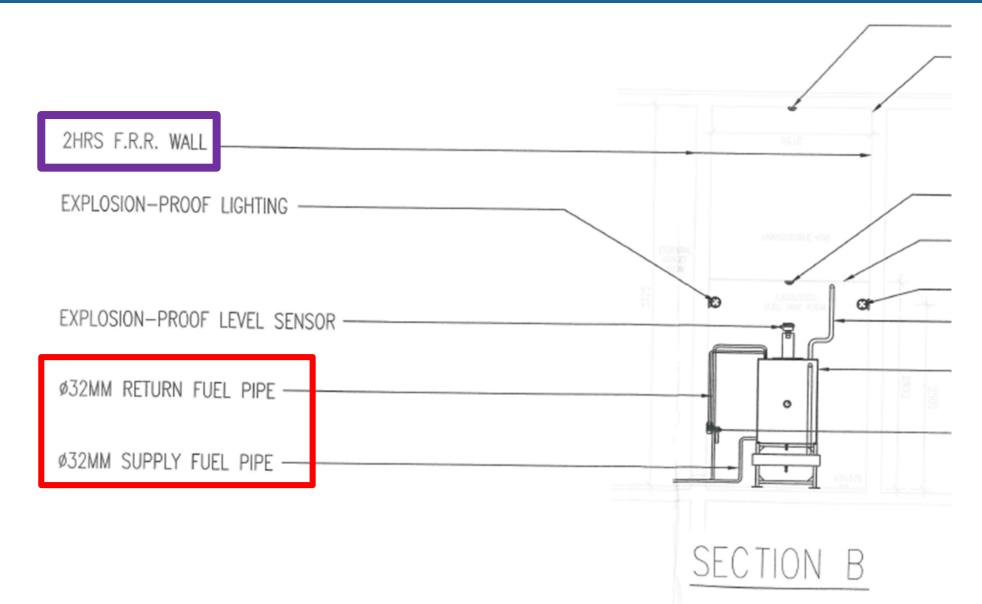
Common Discrepancies and Irregularities (Inconsistent Information)

Inconsistent Measurement

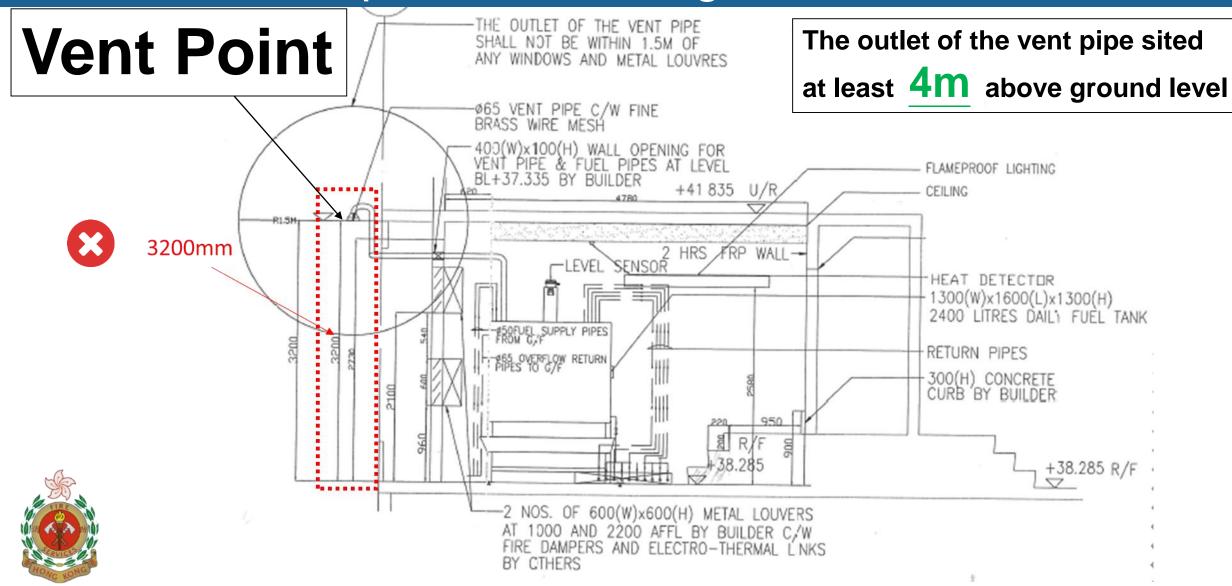
- Size of Supply & Return Pipe
- Fire Resistant Rating of Enclosure Wall



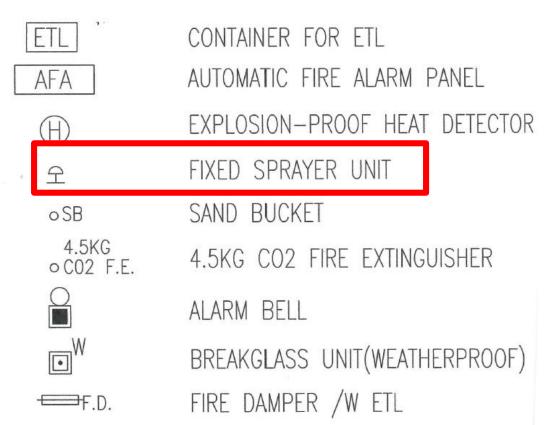
Common Discrepancies and Irregularities (Inconsistent Information)

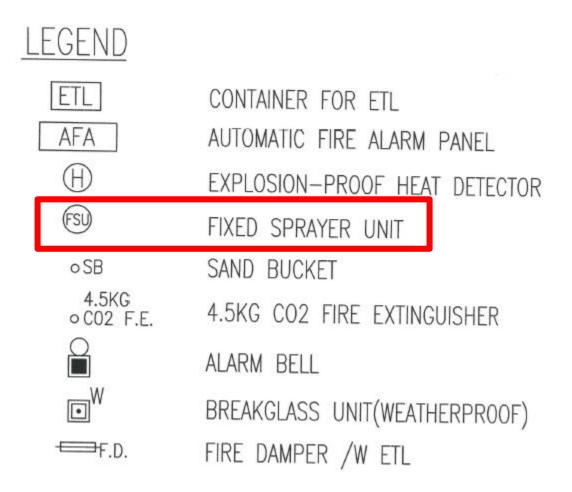


Common Discrepancies and Irregularities



Common Discrepancies and Irregularities (Inconsistent Information)

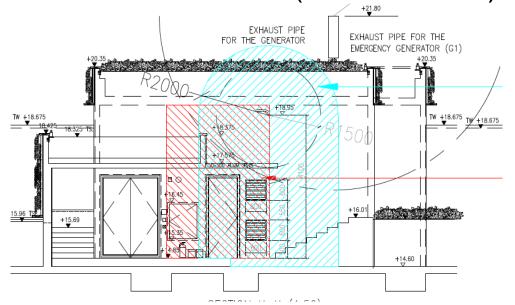




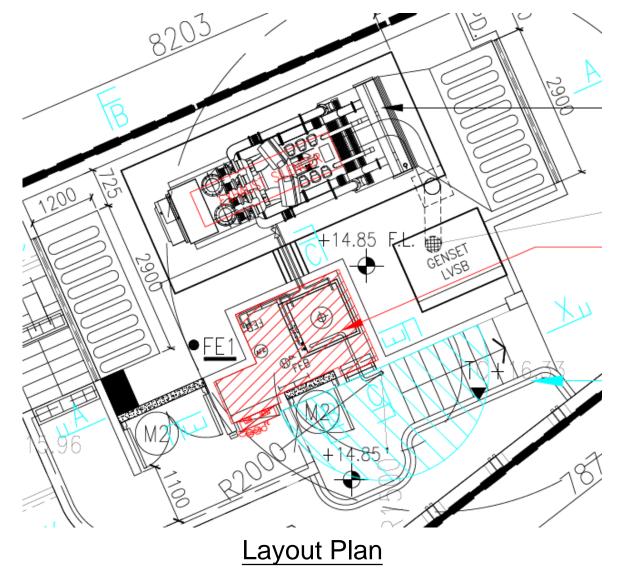


Common Discrepancies and Irregularities (Hazardous Area)

- Every part of the Fuel Tank Room
- 2m radius around tank venting point extending to ground / floor level
- Electrical Installations (BS EN60079)

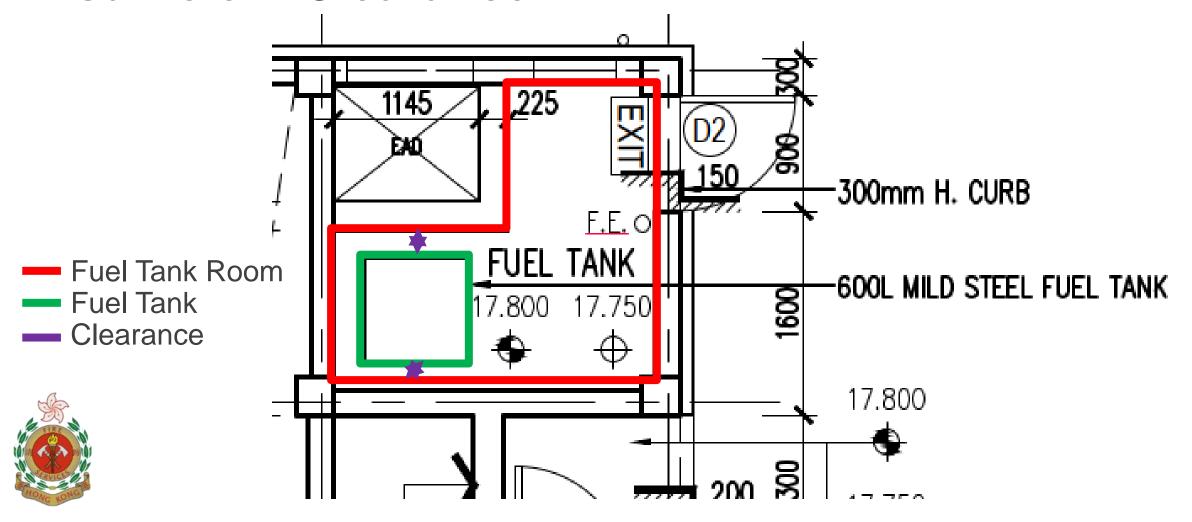


Elevation Plan



Common Discrepancies and Irregularities

Insufficient Clearance

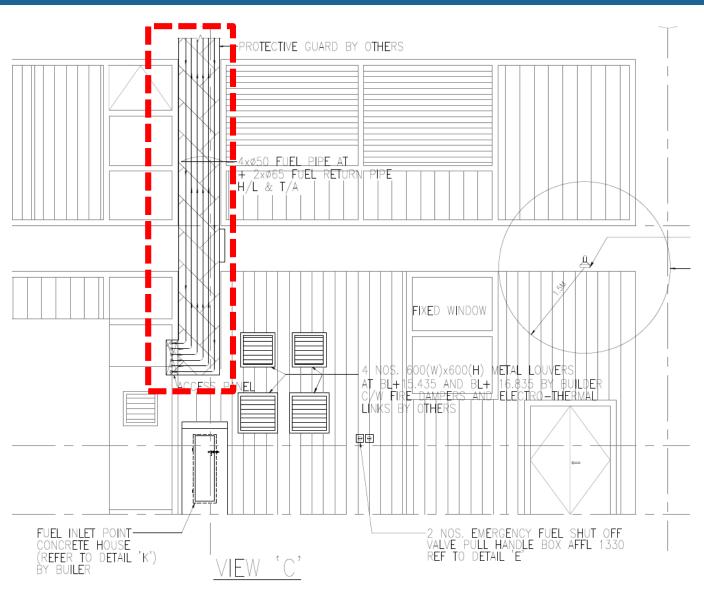


Common Discrepancies and Irregularities

Routing of Fuel Pipe

- Running inside building
- Passing through means of escape
- Passing through common area
- Passing through floors
- External wall





Common Discrepancies and Irregularities (Wrong Signage)







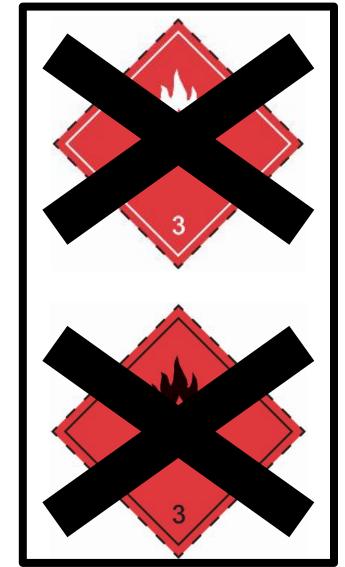




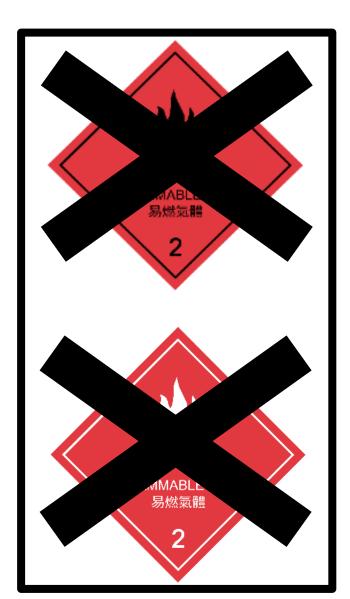




Common Discrepancies and Irregularities (Wrong Signage)









Common Discrepancies and Irregularities (Wrong Signage)



Facilitation

Facilitate FTR Application

- RECOMMEND applicant to attend workshop
- PROVIDE comprehensive one-stop service

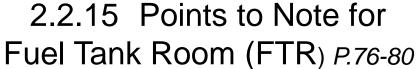


Hotline: 2417 5757

Dangerous Goods Thematic Website

A Guide to Application for Dangerous Goods Licence and Approval









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)



E-Application

Electronic Submission of Application for **Dangerous Goods** Licence / Approval is now available on 香港政府一站通

GOVHK香港政府一站通





附表2危險品製造牌照/ ❖ 附表2危險品貯存暨使用 牌照的更改/取消

□ SC-605-3-FSD030-002

2)申請表



申請類別

- 根據第 295G 章 《危險品(管制)規例》申請更改牌照
- 根據第 295G 章 《危險品(管制)規例》申請取消牌照

持牌人資料

持牌人為*

個人 獨資業務 合股業務 公司

牌照编号*





Common Errors in Application for Pressure Receptacle

申請批准壓力氣體容器的常見問題

Senior Station Officer
CHAU Choi-lung, Stephen
Dangerous Goods Enforcement Division
Licensing and Certification Command
Fire Services Department

Table of Contents

- Application for Pressure Receptacle Approval under Cap. 295G
- Application Procedure
- E-Application Form
- Efficient Application



Legislation

s.145, Cap 295G, Dangerous Goods (Control) Regulation

- The amended Dangerous Goods Ordinance and its subsidiary legislation has come into effect on 31 March 2022
- No person shall use, or cause or permit to be used, for the storage of any gas, any cylinder or other container except of a type appropriate to the storage of such gas and approved by the Authority.



Approved by the Director



Inspected or tested by an approved person



Example



Pressure receptacles on tube trailer



VIE tank



Consider the Type of Application

- Batch approval
- Model approval
- Batch and model approval

Submit Duplicate Copies to FSD

- Application form
- Supporting documents

Process by FSD and LD

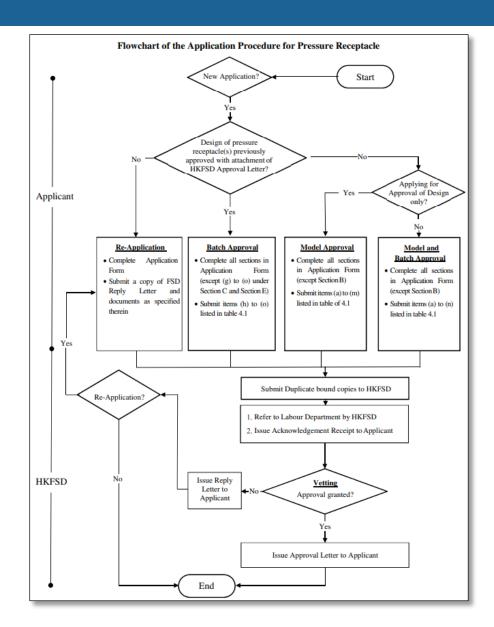
• Issue acknowledgement receipt to the applicant

Vetting - Approv Granted • Issue approval letter to applicant



Vetting – Approval NOT Granted

- Issue Reply Letter to Applicant for re-application
- Comments would be provided

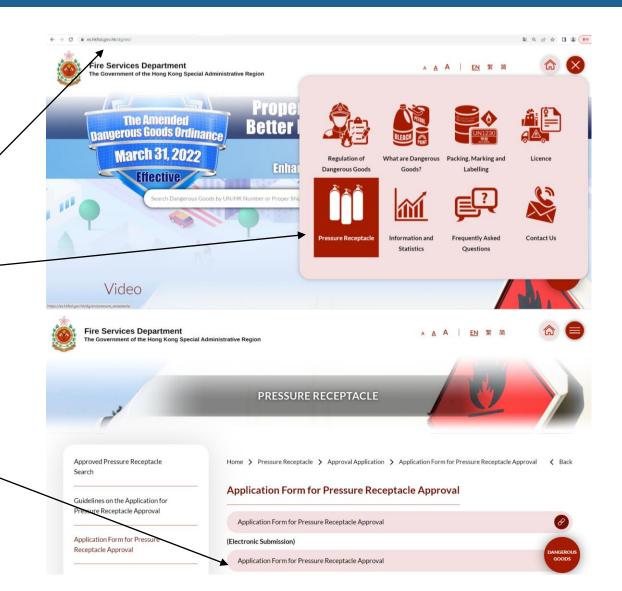


E-Application

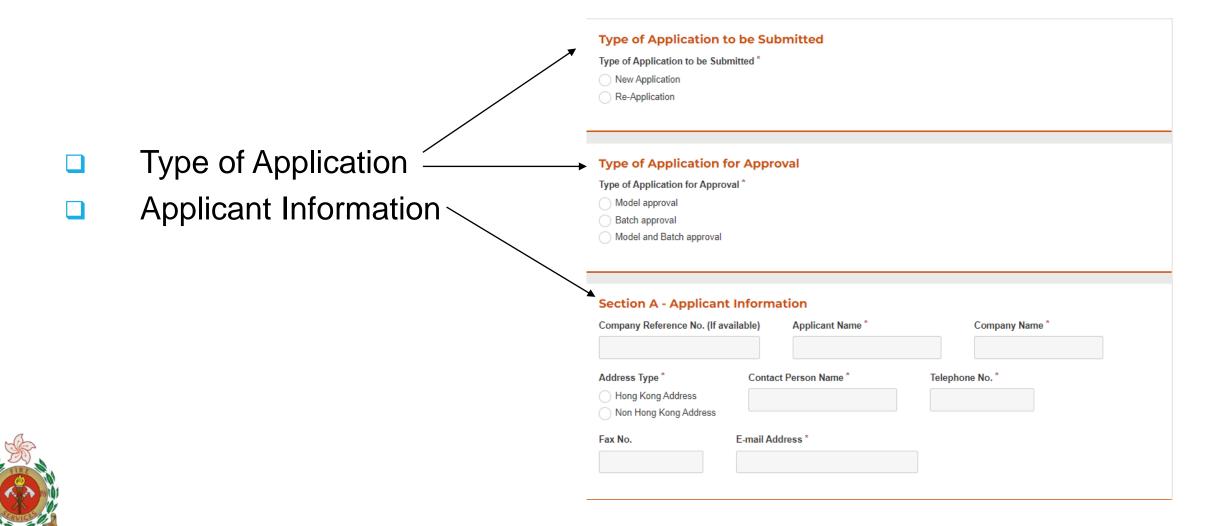
Visit
https://es.hkfsd.gov.hk/dg/en/

Pressure Receptacle

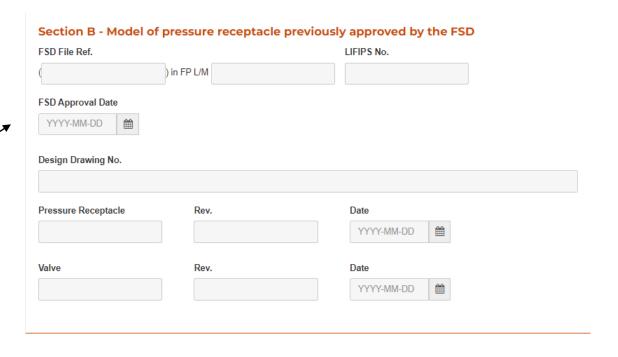
E-Application Form for Pressure Receptacle Approval







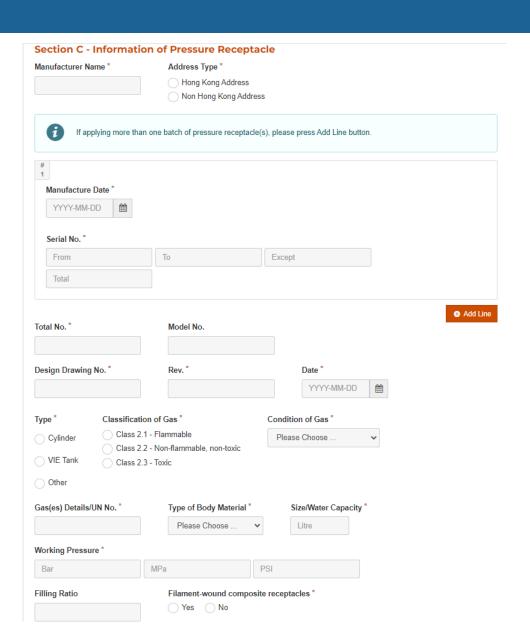
- Only for batch approval
- Previous approval





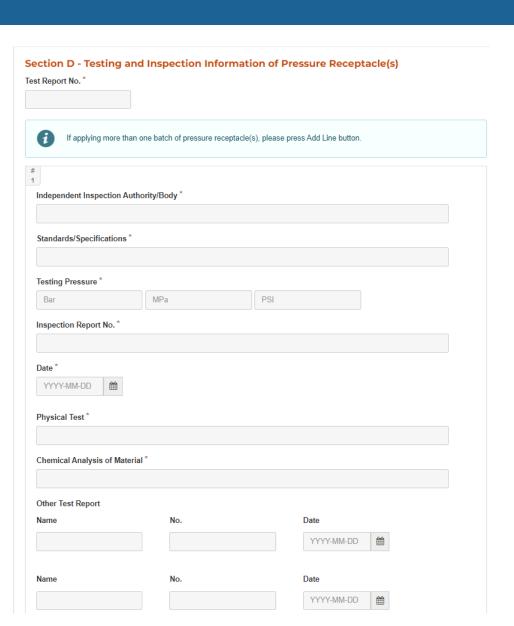
- ManufacturerName
- Manufacture Date
- Serial No.
- Drawing No.
- UN No.
- Gas Details
- Working Pressure
- Filling Ratio



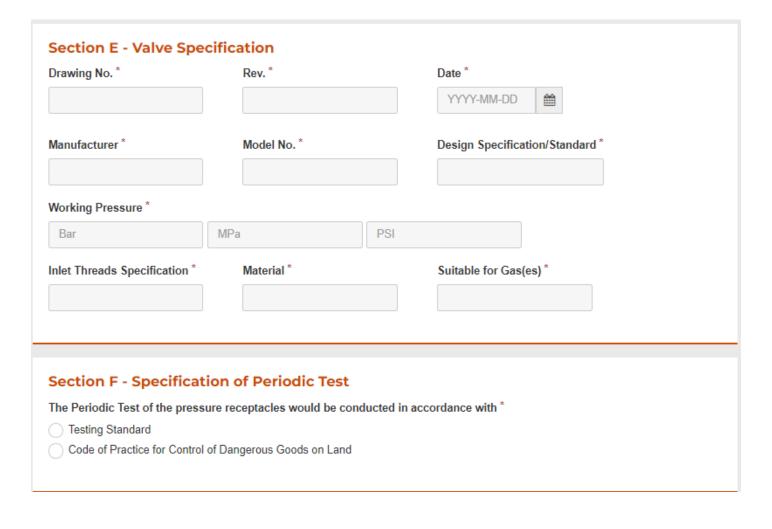


- Independent Inspection Authority
- Standard and specifications
- Testing Pressure
- Report No.
- Date
- Test Result





- Drawings
- Manufacturer
- Working Pressure
- Periodic Test





Supporting Documents for Application

Item	Supporting Document	New Application			Re- application
		Model	Batch	Model and Batch	/ Submission of Supplementary Information
(a)	Model and Design of Receptacle(s)	V		V	
(b)	Technical Details and Drawing(s)	√		√	
(c)	Design Specification and Calculation	√		√	1
(d)	Gas(es) Details	√		√	1
(e)	Valve Specification	√		V	1
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	1		✓	As specified in FSD's Reply Letter
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	√		√	
(h)	Manufacturer's Certificate	1	V	V	
(i)	Inspection Report issued by recognized independent inspection authority/body	√	√	√	
(j)	Report of Physical Test	√	√	√	
(k)	Report of Chemical Analysis of Material	√	V	V	
(1)	Other Test Report(s)	√	√	V	
(m)	Details of any heat treatment	1	√	√	
(n)	Serial numbers of Pressure Receptacle(s)		V	1	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		1		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				√



Standards Accepted by FSD





- Sufficient Supporting
 Documents for Application
- Independent body inspection report
- The pressure receptacle drawings

		New Application			Re- application
Item	Supporting Document	Model	Batch	Model and Batch	/ Submission of Supplementary Information
(a)	Model and Design of Receptacle(s)	✓		✓	
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	√		√	As specified in
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	√		√	FSD's Reply Letter
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(I)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		√	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		√		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓



2. Accurate Calculation

- Cylinder Design
- Valve Design
- Thickness of Cylindrical Shell
- Wall Stress at Pressure Test



Item	Supporting Document	New Application			Re- application
		Model	Batch	Model and Batch	/ Submission of Supplementary Information
(a)	Model and Design of Receptacle(s)	✓		√	
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		√	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	√		√	As specified in
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	√		✓	FSD's Reply Letter
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	√	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(I)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		√	√	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		√		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓

3. Tally with Application Form

- Serial Number of the Pressure
 - Receptacles
- Type of Gas
- Manufacture Date
- Working Pressure
- Testing Pressure

		New Application			Re- application
Item	Supporting Document	Model	Batch	Model and Batch	/ Submission of Supplementary Information
(a)	Model and Design of Receptacle(s)	✓		✓	
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	√		✓	As specified in
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	√		✓	FSD's Reply Letter
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(I)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		✓	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s) Other documents requested by FSD (if any)		√		
(p)	Copy of FSD's Reply Letter(s)				
(4)	Copy of 1 OD 3 Nepty Letter(3)				٧

- 4. Use of DG Thematic Website
- Legislations
- DG Search Engine
- Cylinder/AP Search Engine
- Code of Practice
- Application Guide





More Information

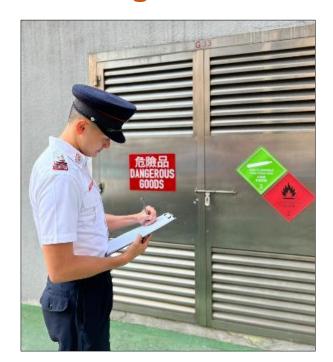
- General Enquiry:
 - hkfsd_dg_enq@hkfsd.gov.hk
- Code of Practice, "Application Guide", Pamphlets, Videos:
 - → DG Thematic Website (www.hkfsd.gov.hk/dg)





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)







END