Vehicle Inspection Checklist A

Inspection Checklist for Package and/or Bulk Transportation.

Prime mover and trailer (bulk tank, ISO tank).

Road tanker (single entity lorry).

Prime mover and trailer (trucking container containing petroleum or Flammable materials in package, examples drums, bottles, pallets etc).

* Transport of petroleum and flammable materials in bulk means transport of petroleum and flammable materials in container more than 250 litres water capacity.

S/No.	Technical Requirements
1	Exhaust system in order.
2	Fire shield at rear of cabin provided & in order.
3	Battery cut off functioning as intended.
4	Discharge faucets in order.
5	Emergency cut off for tanker in working order.
6	Transport Emergency Information Panel (TEIP) according to Singapore Standard
	586 shall be displayed at the back and both sides of the vehicle.
7	Warning sign "Danger, Highly Flammable" according to Petroleum & Flammable
	Material Regulations shall be displayed at the back of the vehicle.
8	Heavy-duty steel bumper at least 15 cm from the tank.
9	Earthing strap provided and long enough to touch the ground.
10	Metal conduits for all wirings in good condition.
11	Manhole covers in order.
12	Coaming satisfactory and projected at least 25 mm above manhole covers.
13	Pressure, level & temperature gauges provided.
14	Safety relief valves provided.
15	Proper battery compartment.
	Vehicle is equipped with one 9 KG dry powder fire extinguisher and
16	i) 1 x 1 KG dry chemical fire extinguisher, OR
	ii) 1 x 2.3 KG dry carbon dioxide fire extinguisher

Vehicle Inspection Checklist B

Inspection Checklist for Package and/or Bulk transportation.

Vehicles constructed to carry goods (e.g. lorries, pick-ups).

- * Transport of petroleum and flammable materials in package means transport of any petroleum or any flammable materials in one or more containers of less than 250 litres water capacity.
- * Vehicles used for transport of flammable gases must not have a roof covering.

S/No.	Technical Requirements
1	Platform of the vehicle is lined with timber or is timber constructed to
1	minimize contact between the metal parts of the platform and any container.
	Protective railings lining the platform of the vehicle are at least 1 m in height to
2	secure any container and to prevent such container from falling off the vehicle
	when the vehicle is in motion.
3	Glass at the back of the driver cabin, if any, is of wired glass or toughened or safety
3	of not less than 6 mm in thickness to act as a fire resisting shield.
4	Battery is covered with appropriate insulation material to prevent electrical spark
4	from igniting any flammable vapor from any container.
5	Earthing strap provided and long enough to touch the ground.
6	Exhaust pipe is extended at least 150 mm outwards away from the vehicle tail box
0	or is directed downward to keep vehicle exhaust away from any container.
7	Warning placard according to Singapore Standard 586 shall be displayed at the
,	front, both sides and the back of the vehicle.
8	Warning sign "Danger, Highly Flammable" according to Petroleum & Flammable
0	Material Regulations shall be displayed at the back of the vehicle.
	Vehicle is equipped with one 9 KG dry powder fire extinguisher and
9	i) 1 x 1 KG dry chemical fire extinguisher, OR
	ii) 1 x 2.3 KG dry carbon dioxide fire extinguisher.

Vehicle Inspection Checklist C

Inspection Checklist for Package transportation.

Enclosed Vehicles (e.g. Van or Boxed-up vehicle).

* Transport of petroleum and flammable materials in package means transport of any petroleum or any flammable materials in one or more containers of less than 250 litres water capacity.

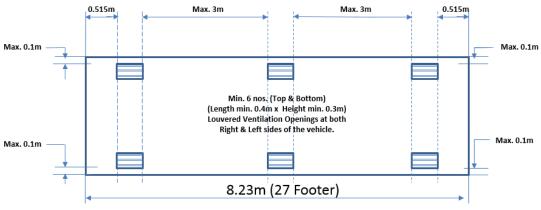
S/No.	Technical Requirements			
1	Adequate ventilation shall be provided on top and bottom (louvres) and exhaust fan			
	according to Petroleum & Flammable Material Regulations.			
2	Platform of the vehicle is lined with timber or is timber constructed so as to			
	minimize contact between the metal parts of the platform and any container.			
3	Battery is covered with appropriate insulation material to prevent electrical spark			
3	from igniting any flammable vapor from any container.			
4	Exhaust pipe is extended at least 150 mm outwards away from the vehicle tail box			
	or is directed downward to keep vehicle exhaust away from any container.			
5	Warning placard according to Singapore Standard 586 shall be displayed at the			
3	front, both sides and the back of the vehicle.			
6	Warning sign "Danger, Highly Flammable" according to Petroleum & Flammable			
•	Material Regulations shall be displayed at the back of the vehicle.			
	Vehicle is equipped with one 9 KG dry powder fire extinguisher and			
7	i) 1 x 1 KG dry chemical fire extinguisher, OR			
	ii) 1 x 2.3 KG dry carbon dioxide fire extinguisher			

Vehicle Inspection Checklist C

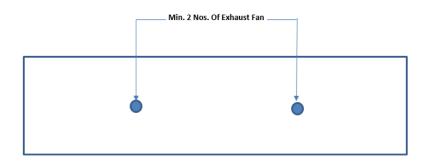
Apart from the opening on top behind the driver's cabin, please see our requirement:

- 1 Only Class 3 FM Liquid/Petroleum & Class 4 Solids are permitted to be transported in a boxed-up/enclosed vehicle with:
 - Adequate ventilation shall be provided to prevent accumulation of any flammable vapours in the vehicle.
 - Spacing between top and bottom ventilation louvers shall not exceed 3 m horizontally.
 - > Exhaust fan to circulate air inside the vehicle.
 - The glass at the back of the driver cabin is of wired glass or toughened or safety glass of not less than 6 mm in thickness to act as a fire shield.
- 2 Class O Petroleum and/or Class 2.1 Flammable Gas are not permitted to be transported in a boxed-up vehicle or vehicle with roof covering whether permanent or otherwise.

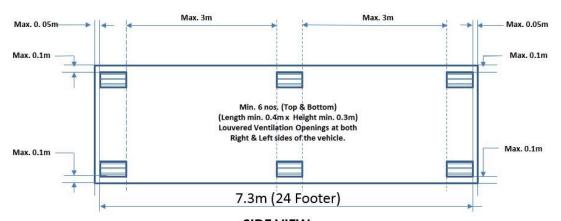




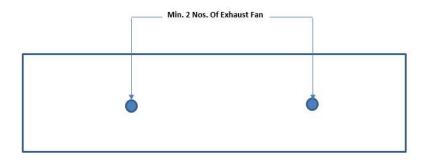
SIDE VIEW



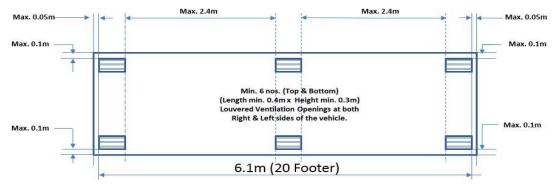
TOP VIEW



SIDE VIEW



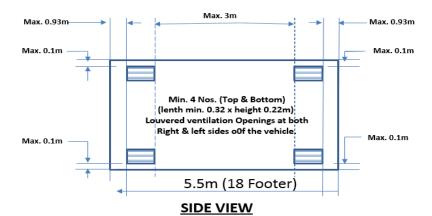
TOP VIEW



SIDE VIEW



TOP VIEW



Min. 1 Nos. Of Exhaust Fan



TOP VIEW

Vehicle Inspection Checklist D

Inspection Checklist for LNG transportation.

Vehicles (e.g. Prime Mover, Trailer and Road Tanker).

S/No.	Technical Requirements						
1	Prime Mover/ Road Tanker equipped with ABS system.						
2	Fire shield at rear of cabin provided and in order.						
3	Roll Over Prevention Stability System provided.						
4	Exhaust system in order (adequately shielded from direct contact with fuel from overfilled tanks and leaks).						
5	Heavy-duty steel under-run protection at the rear and sides, at least 15 cm from the tank.						
6	Metal conduits for all electrical wirings in good condition.						
7	Anti-Tow Interlocks systems (to prevent driving away while connected to driving rack or during dispensing) in order.						
8	Battery cut off functioning as intended.						
9	Battery is covered with appropriate insulation material to prevent electrical spark from igniting any flammable vapor from any container.						
10	Transport Emergency Information Panel (TEIP) according to Singapore Standard 586 shall be displayed at the back and both sides of the vehicle.						
11	Earth winch shall be provided for operating during load and unloading of LNG.						
12	Spark arrestor (Flame Trap) provided.						
13	Earthing strap provided and long enough to touch the ground.						
14	Visual Inspection on Outer Vessel / Tank (eg. to inspect for any sign on sweating, cold spots or algae).						
15	All vent pipe nozzles are piped upwards and are not piped downwards to the chassis (LNG Trailer/ ISO Tanker).						
16	Discharge Faucets in order.						
17	Lighting in cabinets shall be Vapor Proof design or explosion proof design (Intrinsically safe).						
18	Cabinet enclosure shall be designed with louvers.						
19	All valves and Safety pressure relief valves provided.						
20	Pressure and Level gauges provided.						
21	Vacuum reading in working order (< 20 micron).						
22	Emergency cut off device in working order.						
23	Pump, Vaporizer and piping yearly maintenance report (Renew).						
24	Vehicle is equipped with one 9 KG dry powder fire extinguisher and i) 1 x 1 KG dry chemical fire extinguisher, OR ii) 1 x 2.3 KG dry carbon dioxide fire extinguisher						
	II) 1 x 2.0 RG dry Garbon dioxide in coxtinguisher						

Astrata Installation / Inspection

Note that vehicles are required to install **Tracking Devices**, **Immobilizer**, **Horns & Blinkers and an Orange-coloured vehicle licence plate** if the following conditions are met:

- Transporting 3 Metric Tonnes (MT) or more of Petroleum and/or Flammable Materials (P&FM).
- Transporting Hydrogen, Silane and Compressed Natural Gas (CNG) in tubes (regardless of quantity).

3 MT refers to 3000 Kilograms (KG) or 3000 Litres (L) with reference to the physical state of the regulated chemical (i.e. Litres for Petroleum and other Flammable Liquid; Kilograms for Liquified Petroleum Gas [LPG], Gaseous Flammable Material [FM] & Solid FM). Vehicle owners can liaise with the agent directly for the installation of the abovementioned items.

Foreign vehicles transporting 3 MT (net weight) or more of P&FM **OR** Hydrogen, Silane & CNG in tubes (regardless of quantity) will also need to comply with the above requirements. Failing to do so will result in vehicles having to turn back at Tuas checkpoint.

Vehicles installed with tracking devices are to strictly adhere to the approved routes and transportation hours (refer to SCDF transport circular). For more details on Transport requirements of Petroleum and Flammable Materials, please visit:

P&FM Transport Licence

S/No.	Astrata (Asia Pacific) PTE LTD
	Installation of the following items: Orange-coloured licence plate Tracking Device Immobilizers Blinkers Horn
1	Address: BLK 750E Chai Chee Road (Estuary Building) #05-02 Technopark Chai Chee Singapore 469005
	Telephone: +65 6338 8133 Fax: +65 6338 5373

<u>Transport Inspection Bodies for Petroleum & Flammable Materials</u> (P & FM) Vehicle Inspection

S/No.	Inspection Bodies	Checklist A	Checklist B	Checklist C	Checklist D
1	Apave TIV Asia PTE LTD 450 Alexandra Road #04-01, UE Bizhub West Singapore 119960	✓			*
2	Bureau Veritas 28 Ayer Rajah Crescent #04-01 Singapore 139959	*			*
3	VICOM Inspection Centre (Changi) 20 Changi North Crescent Singapore 499613 VICOM Inspection Centre (Kaki Bukit) 23 Kaki Bukit Avenue 4 Singapore 415933 VICOM Inspection Centre (Yishun) 501 Yishun Industrial Park A Singapore 768732 VICOM Inspection Centre (Sin Ming) 385 Sin Ming Drive Singapore 575718 VICOM Inspection Centre (Bukit Batok) 511 Bukit Batok Street 23 Singapore 659545		*	*	
4	JIC (Pioneer) 53 Pioneer Road Singapore 628505	√	*	*	
5	STAI (Jalan Boon Lay) 249 Jalan Boon Lay Singapore 619523	√	√	√	
6	STAI (Sin Ming) 302 Sin Ming Road Singapore 575627		*	*	

Checklist A: Inspection for Bulk and/or Package transportation for Prime Movers, Trailers, Road Tankers.

Checklist B: Inspection for Bulk and/or Package transportation for Lorries, Pick-ups etc.

Checklist C: Inspection for Package transportation for Enclosed Vehicles.

Checklist D: Inspection of LNG transportation for Prime Mover, Trailer, Road Tanker.

Annex G

SCHEDULE CHEMICALS

S/N	Chemical	Schedule	Transport Licence Duration and Additional Conditions	Documents and Technical Requirements
1	O-Alkyl (≤C10, including cycloalkyl) N, N- dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates E.g. Tabun: O-Ethyl N, N-dimethyl phosphoramidocyanidate	S1A		Prime Mover/Trailer (BULK/ISO TANK)/ Road Tanker – To follow Annex A
2	Sulphur mustards (a) 2-Chloroethylchloromethylsulfide (b) Mustard gas: Bis(2-chloroethyl)sulfide (c) Bis(2-chloroethylthio)methane (d) Sesquimustard: 1,2-Bis(2-chloroethylthio)ethane (e) 1,3-Bis(2-chloroethylthio)-n-propane (f) 1,4-Bis(2-chloroethylthio)-n-butane (g) 1,5-Bis(2-chloroethylthio)-n-pentane (h) Bis(2-chloroethylthiomethyl)ether (i) O-Mustard: Bis(2-chloroethylthioethyl)ether	. S1A	 12 months Licence only Compulsory ASTRATA report Compulsory to provide armed escorts Compulsory at any one-time transport not more than 100 mg Transport timing, 9 to 5pm only 	Prime mover and trailer (trucking container containing petroleum or Flammable materials in package, examples drums, bottles, pallets etc) – To follow Annex A Vehicles constructed to carry goods (e.g. lorries, pick-ups) – To follow Annex B Enclosed Vehicles (e.g. Van or box up vehicle) – To follow Annex C

S/N	Chemical	Schedule	Transport Licence Duration and Additional Conditions	Documents and Technical Requirements
3	N, N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides (>30% purity)	S2B		Prime Mover/Trailer (BULK/ISO TANK)/
4	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts (>30% purity)	S2B		Road Tanker – To follow Annex A
5	Pinacolyl alcohol : 3,3-Dimethylbutan-2-ol	S2B		Prime mover and trailer (trucking container containing petroleum or Flammable materials in package, examples drums, bottles, pallets etc) –
6	Trimethyl phosphite	S3B		
7	Triethyl phosphite	S3B	• 12 or 24 months subject to 3000L, similar to the rest of P&FM requirements To follow Annex	To follow Annex A
8	Dimethyl phosphite monochloride (>30% purity)	S3B	- Tarrroquiromonto	Vehicles constructed to carry goods (e.g. lorries, pick-ups) –
9	Sulfur monochloride (>30% purity)	S3B		To follow Annex B
10	Sulfur dichloride (>30% purity)	S3B		Enclosed Vehicles (e.g. Van or box up vehicle) –
11	Ethyldiethanolamine (>30% purity)	S3B		To follow Annex C
12	Methyldiethanolamine (>30% purity)	S3B		

Explanatory notes

Hazardous Materials Transport Driver Permit

Drivers need to attend course and obtain a Hazardous Materials Transport Driver Permit (HTDP). To register for the HTDP course, you can choose one of the following Institutions or accredited bodies.

SCDF ACCREDITED TRAINING INSTITUTIONS (ATIS) HAZARDOUS MATERIALS TRANSPORT DRIVER COURSE (HTDC)

S/N	NAME OF COMPANY
	ABSOLUTE KINETICS CONSULTANCY PTE LTD
	64, HILLVIEW TERRACE
	SINGAPORE 669277
1	MR SETHUPATHY SRIBALASUBRAMANIAM
	TEL : +65 66905571
	FAX : +65 67633885
	EMAIL: SriBalu.S@SG-AKC.com
	AAT TRAINING HUB PTE LTD
	320 SERANGOON ROAD #11-08 @CENTRIUM SQUARE
2	SINGAPORE 218108
	MS FITRI/ MS ROKIAH
	TEL : +65 62924804 (EXT 807)
	FAX : +65 67633885
	EMAIL: norfitri@aattraininghub.com; admin@aattraininghub.com
	ADVANTA GLOBAL PTE LTD
	20 BENDEMEER ROAD, #04-06 BS
3	BENDEMEER CENTRE, SINGAPORE 339914 (NEW HEAD OFFICE & TRAINING CENTRE)
3	MR SRIVALLI
	TEL : +65 64171153 / +65 62952112 / +65 81295935
	FAX : +65 62956683
	EMAIL : srivalli@avanta.com.sg

S/N	NAME OF COMPANY			
	BS TECHNOLOGY PTE LTD			
	5, TUAS AVENUE 3,			
	BS LOGISTICS HUB			
4	SINGAPORE 639405			
4	MR SRIRAM / MR HANSEN NG			
	TEL : +65 64162691 / +65 64162694			
	FAX : +65 62659717			
	EMAIL: sriram@bokseng-ipl.com; hansen.ng@bokseng-ipl.com			
	COSEM SAFETY AND SECURITY SERVICES PTE LTD			
	37, GUL AVENUE			
5	SINGAPORE 629677			
5	MS FARHANA / MS FARIDAH			
	TEL : +65 68984171 (x 113) / +65 68984171 (x 112)			
	FAX : +65 68982428			
	EMAIL : farhanah@cosem.org.sg; training@cosem.org.sg; faridah@cosem.org.sg			
	HAZMAT TRAINING			
	146A, CHANGI ROAD			
	SINGAPORE 419726			
6	MS NG BEE HONG			
	TEL : +65 65425539			
	FAX : +65 65425296			
	H/P : +65 96755796			
	EMAIL: beehong@haz-mat-training.com			
	NTUC LEARNING HUB			
	e2i (DEVAN NAIR INSTITUTE FOR EMPLOYMENT AND EMPLOYABILITY)			
	80 JUROG EAST STREET 21, #02-03, SINGAPORE 609607			
7	MS SERENE ONG/MS JEFEI TAN/ MS NURUL HANISAH			
	TEL : +65 6705 4097			
	EMAIL: FTSME@ntuclearninghub.com			

S/N	NAME OF COMPANY			
	PIONE	ER TRAINING CENTRE PTE LTD		
	1, SOC	N LEE STREET		
	#03-49	750, PIONEER CENTRE		
	SINGA	PORE 627605		
8	MS WII	NNIE LAU		
	TEL	: +65 63163290		
	FAX	: +65 63163265		
	H/P	: +65 8338332		
	EMAIL	: pioneertrainingcentre2010@gmail.com; centremanager@pioneertrainingcentre.com; winnielau@pioneertrainingcentre.com		
	PSA IN	ISTITUTE, PSA CORPORATION LIMITED		
	PSA VISTA, #06-01, PSA HORIZONS			
	1 HARI	BOUR DRIVE		
	SINGAPORE 117352			
9	MS AN	GELA LOO/ MR LIONG KWOK YEAN/ MR CHAN WEI KIAT		
	TEL	: +65 6279 4460		
	FAX	: +65 67717316		
	EMAIL	: ANGELAL@globalpsa.com; kyliong@globalpsa.com; cweikiat@globalpsa.com		
	TECS F	FIRE AND SAFETY SERVICES		
	20, TO	H GUAN ROAD		
	CJ LOGISTICS BUILDING #07-02			
	SINGAPORE 608839			
10	MS NO	RDAYANA /MS RAHAINA		
	TEL	: +65 63621886		
	FAX	: +65 63623973		
	H/P	: +65 83839195		
	EMAIL	: admin3@tecs-firensafety.com.sg; am@tecs-firensafety.com.sg;		
		tm@tecs-firensafety.com.sg; admin1@tecs-firensafety.com.sg		

S/N	NAME OF COMPANY			
	UBTS ACADEMY PTE LTD			
	821, BUKIT BATOK WEST AVENUE 5			
	SINGAPORE 659087			
	MR JUKIT/ MS LILY CHEW / MS SIEW LEE			
11	TEL : +65 64256787			
	FAX : +65 62508218			
	H/P : +65 97479922			
	EMAIL: training@ubts.academy; lilychew@ubts.academy; siewlee@ubts.academy			
	LIFESKILLS ACADEMY (BIZNESS & MEDIA RESOURCES PTE LTD)			
	18 BOON LAY WAY #09-144 TRADEHUB21			
	SINGAPORE 609966			
12	MR JOSEPH HONG / MS SALLY HONG			
	TEL : +65 68160492			
	H/P : +65 83337118 / +65 88112861			
	EMAIL: joehong@bizmediaresources.com.sg; business@lifeskillsacademy.edu.sg			
	REALSAFE TRAINING CENTRE			
	273 CHANGI ROAD, SINGAPORE 419754			
13	MR ANUAR BIN ABDUL MAJID			
	H/P : +65 81684401; +65 81684403			
	EMAIL: anuar_adesc@adrealsafe.com; aqilahma_rtc@adrealsafe.com;			
	WONG FONG ACADEMY PTE LTD			
	79 JOO KOON CIRCLE #03-03 SINGAPORE 629107			
14	MS LIYANA/MS RINA/ MS JANIFAR			
	TEL : +65 68633686			
	H/P : +65 88213190			
	EMAIL : sales@wfa.edu.sg			

S/N	NAME OF COMPANY
15	EVERSAFE ACADEMY PTE LTD
	2 KAMPONG KAPOR ROAD SINGAPORE 208674
	MS APARNA/MS VANISHREE
	TEL : +65 62978417 (EXT 708); +65 62978417 (EXT 759)
	H/P : +65 94566715
	EMAIL : sales@eversafe.com.sg; diploma2@eversafe.com.sg;
16	SAAA CARGO SERVICES PTE LTD
	2 KALLANG AVENUE
	#08-03 CT HUB
	SINGAPORE 339407
	MS PAULINE TOK/ MS LINDA
	TEL : +65 65455006
	H/P : +65 98636863
	EMAIL: admin@saaa.org.sg; finance@saaa.org.sg
17	GREENSAFE INTERNATIONAL PTE LTD
	175A BENCOOLEN STREET
	#08-11, BURLINGTON SQUARE
	SINGAPORE 189650
	MR VICTOR JAMES EDWARD
	TEL : +65 62970388
	H/P : +65 90695122
	EMAIL: victor@greensafe.com.sg

Transport Emergency Response Plan (TERP)

As part of our continued efforts to create a pro-enterprise environment, SCDF has reviewed the Transport Emergency Response Plan (TERP) online submission process. To simplify the online application process, the TERP shall be submitted as part of the Flammable Material Transportation Licence application with effect from 1st August 2017.

Please submit the TERP document together with other supporting documents through **GoBusiness.**

Following the implementation of this initiative, TERP applications (New and Renew) in the SCDF **e-Services** will be closed.

For any clarification on TERP, you may email to SCDF_FMI_FMT@scdf.gov.sg

Last Updated: 1st October 2025