

ANNEX A

Inspection Checklist for bulk transportation Prime mover and trailer (bulk tank, ISO tank) Road tanker (single entity lorry)

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

(A)	Documents Requirements
1	Professional Engineer's certificate
2	Manufacturer's report (new application)
3	One copy of tanker drawing endorsed by PE (new application)
4	Hydrostatic test report (once every 5 years)
5	Radiographic test report (once every 10 years)
6	Test certificate issued by LTA (road worthiness)
7	Test report (once every 5 years) for ISO tank or BLC
8	Transport Emergency Response Plan
9	Hazardous Materials Transport Driver Permit
(B)	Technical Requirements
1	Exhaust system in order (must be in front)
2	Fire shield at rear of cabin provided & in order
3	Battery cut off
4	Discharge faucets
5	Emergency cut off for tanker
6	Emergency Information Panel according to Singapore Standard/ Code of Practice provided on 3 sides
7	Warning sign " Danger, Highly Flammable" according to Petroleum & Flammable Material Regulations display at the back of the vehicle
	Bumper (heavy duty steel) 15 cm from tank
8	Earthing strap touching the ground
9	Metal conduits for all wirings in good condition
10	Manhole covers in order
11	Coaming satisfactory and projected at least 25 mm above manhole covers
12	Pressure , level & temperature gauges provided
13	Safety & hydrostatic relief valves provided
14	Proper battery compartment
15	Vehicle is equipped with one 9 kg dry powder fire extinguisher and <ul style="list-style-type: none"> i) 1 x 1 kg dry chemical fire extinguisher , or ii) 1 x 2.3 kg dry carbon dioxide fire extinguisher

ANNEX B

Inspection Checklist for package transportation 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 package means transport of any petroleum or any flammable materials in one or more containers of less than 250 litres water capacity

(A)	Documents Requirements
1	Test certificate issued by LTA (road worthiness)
2	Hazardous Materials Transport Driver Permit
3	Transport Emergency Response Plan
(B)	Technical Requirements
1	Exhaust pipe directed downwards and adequate shrouding (metal cover) to be provided
2	Warning sign “ Danger, Highly Flammable “ according to Petroleum & Flammable Material Regulations display at the back of the vehicle
3	Fire shield at rear of cabin provided & in order
4	Battery cut off
5	Earthing strap touching the ground
6	Warning labels according Singapore Standard/ Code of Practice provided at 3 sides
7	Metal conduits for all wirings in good condition
8	Proper battery compartment
9	Vehicle is equipped with one 9 kg dry powder fire extinguisher and iii) 1 x 1 kg dry chemical fire extinguisher , or iv) 1 x 2.3 kg dry carbon dioxide fire extinguisher

ANNEX C

Inspection Checklist for package 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 use for transport of flammable gases must not have a roof covering.

(A)	Documents Requirements
1	Transport Emergency Response Plan
2	Test certificate issued by LTA (road worthiness)
3	Hazardous Materials Transport Driver Permit
	Supplier's authorization letter (for LPG dealers only)
(B)	Technical Requirements
4	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
5	Protective railings lining the platform of the vehicle are at least 1 m in height in order to secure any container and to prevent such container from falling off the vehicle when the vehicle is in motion
6	Glass at the back of the driver cabin, if any is of wired glass or toughened or safety of not less than 6 mm in thickness so as to act as a fire resisting shield
7	Battery is covered with appropriate insulation material to prevent electrical spark emanating there from igniting any flammable vapour from any container
8	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
9	Warning sign " Danger, Highly Flammable " according to Petroleum & Flammable Material Regulations display at the back of the vehicle
10	Warning labels according Singapore Standard/ Code of Practice provided at 3 sides
11	Vehicle is equipped with one 9 kg dry powder fire extinguisher and <ul style="list-style-type: none"> v) 1 x 1 kg dry chemical fire extinguisher , or vi) 1 x 2.3 kg dry carbon dioxide fire extinguisher

ANNEX D

Inspection Checklist for package transportation Vehicles (e.g. Van or box 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

(A)	Documents Requirements
1	Transport Emergency Response Plan
2	Test certificate issued by LTA (road worthiness)
3	Hazardous Materials Transport Driver Permit
(B)	Technical Requirements
4	Adequate ventilation on top and bottom (louvers) / exhaust fan
5	Battery is covered with appropriate insulation material to prevent electrical spark emanating there from igniting any flammable vapour from any container
6	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
7	Warning sign “ Danger, Highly flammable “ according to Singapore Standard/ Code of Practice display at the back of the vehicle
8	Warning labels according Singapore Standard/ Code of Practice provided at 3 sides
9	Vehicle is equipped with one 9 kg dry powder fire extinguisher and vii) 1 x 1 kg dry chemical fire extinguisher , or viii) 1 x 2.3 kg dry carbon dioxide fire extinguisher

S/no	Inspection Bodies approved to carry inspection on vehicles base on above checklist / approved agent for installation of tracking device, horns and blinkers, orange vehicle number plate	Annex A	Annex B	Annex C	Annex D	Installation of Tracking Device etc
1	ABS Consulting Alexandra point 438 Alexandra Road #09-01, Singapore 119958 Tel 62708663, Fax 62709987	yes	yes			
2	Germanisher Lloyd A Hong Leong Building 16 Raffles Quay #35-03, Singapore 048581 Tel 62206444, Fax 62254169	yes	yes			
3	Bureau Veritas 1 Maritime Square #09-66 Lobby C HarbourFront Centre Singapore 099253	yes	yes			
4	VICOM LTD 385 Sin Ming Drive Singapore 575718 Tel 4584555, fax 4581040	yes	yes	yes	yes	
5	Comfort Automotive Services 45 Pandan Road Singapore 609286 Tel 63388778, Fax 62624113			yes	yes	
6	Comfort Delgro Engineering Pte Ltd 59 Loyang Drive Singapore 508969 Tel 63331313, Fax 65466022			yes	yes	
7	JIC Inspection Services Pte Ltd 53 Pioneer Road Singapore 628505 Tel 68639639, Fax 68631838	yes	yes	yes	yes	
8	STA Inspection Pte Ltd 320 Sin Ming Road Tel 64521398, Fax 64538244			yes	yes	
9	Astrata (Asia Pacific) Pte Ltd 135 Joo Seng Road 02-01, PM Industrial Building Singapore 368363 Tel +65 63388133 Fax +65 63385373 www.astratagroup.com					Yes

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.

1. SCDF
Civil Defence Academy (CDA)
Corporate Affairs Branch
101 Jalan Bahar Road
Tel 67945606
Fax 67945591
E-mail scdf_cda@scdf.gov.sg
2. PSA Institute, PSA Corporation Limited
PSA Vista, #03-02
No.20, Harbour Drive
Singapore 117612
Tel 67717319
Fax 67717316
3. TECS Fire & Safety Services
18, Mandai Estate
#05-02, Multi-Wide Industrial Building
Singapore 729910
Tel: 63621886
Fax: 63623973
4. Fire & Hazmat Control Systems Pte Ltd
No. 21, Jalan Shaer
Singapore 769367
Tel/Fax: 62751796
5. Avion Avionics Technologies Pte Ltd
54, Maude Road,
#02-05, Townshend Building
Singapore 208346
Tel: (65) 62924804
Fax: (65) 62934401
6. Hazmat Training
Unit 07-20, Cargo Agents' Building C,
115 Airport Cargo Road
Singapore 819466
Tel: (65) 65425539
Fax: (65) 65425296 or 65425298

Transport Emergency Response Plan (TERP)

Prior to the application of vehicle transport licence for petroleum and flammable materials, applicants will have to submit TERP on-line for approval via www.scdf.gov.sg. For clarification on TERP, applicant can call SCDF Central Enforcement Department (Attn: Sgt Azali at 68481440 or CPT John Soh at 68481540)

Tracking Device

Pl note that vehicle transporting more than 3 metric tones (net wt) of petroleum or flammable materials or hydrogen, silane & CNG in tubes (regardless of quantity) will need to install with a tracking devices, immobilizer, horns and blinkers and an orange colour vehicle number plate. Pl note that the 3 metric tones refer to 3000 kg or 3000 litres, in the nature physical state of the regulated chemical (i.e. the litres for petroleum and liquid FM; the kg for LPG, gaseous FM and solid FM. The vehicle owner can liaise with the agent directly for the installation of the tracking devices.

Vehicles installed with tracking devices are to adhere strictly to approved routes and transportation hours. For details, pl visit SCDF website (look for the updated circular on requirements for transportation of Petroleum and flammable materials).

Foreign vehicles transporting more than 3 metric tones (net wt) of petroleum or flammable materials or hydrogen, silane & CNG in tubes (regardless of quantity) will also need to comply with the above requirements, otherwise the vehicle will be turned back at the checkpoint with effect from end March 08.

For further details on transport of petroleum and flammable materials, pl visit www.scdf.gov.sg