

Tier 3
ORC-3SD-810-D-01
Revision Original
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Environmental Management System

System Documentation Fuel Tank Requirements

POLICY REQUIREMENTS

- All requirements under Dangerous Goods POLICY apply
- ALL tanks are to be constructed to an applicable, approved design standard and are to meet all legislative and policy requirements
- ALL tanks are to be appropriately labelled and marked, as per relevant legislative, regulatory, design standard and policy requirements
- ALL tanks must have a complete, serviceable spill kit
- During refuelling, a serviceable fire extinguisher must be immediately available, with a minimum rating of 4A:60B:C
- ALL tanks are to be securely fastened to their means of transport
- ALL fuel trailers and tank vehicles, when parked, must be secured by applying the parking brakes or chock blocks
- ALL nozzles must have an automatic shut-off and be properly stored when not in use
- ALL tanks are to be protected against damage and impact
- All refuelling areas are to be free of combustible materials for a distance ≥ 3 metres
- NO SMOKING or sources of ignition ≤ 3 metres from an area where fuels are handled
- No gravity-feed systems
- Fuel tanks should never be filled over 95% of their maximum capacity
- During refuelling, the operator must be in constant attendance of the nozzle
- Main fuel storage tanks are to be emptied prior to being transported ($\geq 750L$), whenever possible
- No refuelling or storage of petroleum products within 100 metres of a stream, river, lake or other natural watercourse or water body
- Refuelling systems (tanks, pumps, valves, hoses, nozzles, restraining devices, carriers) must be inspected regularly and maintained as required

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- Tanks must be located > 30 metres from wells
- All spills are to be reported and cleaned-up, as per spill procedure
- During transportation, fueling and/or handling of Dangerous Goods (fuel, waste oil), a spill containment kit appropriate to the size to contain the spill must be present in the vehicle or trailer.

1. TANK SPECIFICATIONS: MOBILE REFUELLING

DIESEL (FUEL OIL) UN1202			
Capacity of Container	Prescribed Container	Alternate Container	Sunset Date on Alternate Container
30L or less	<ul style="list-style-type: none"> • Non-Specification, when the conditions for "Ltd. Qty." are met. 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
>30L to 450L	<ul style="list-style-type: none"> • CGSB-43.146 (UN IBC) • CGSB-43.150 (jerry can or drum) 	<ul style="list-style-type: none"> • ULC/ORDC142.13 	<ul style="list-style-type: none"> • N/A
> 450L to 3000L	<ul style="list-style-type: none"> • CGSB-43.146 • TC306 / TC406 to CAN/CSAB620 	<ul style="list-style-type: none"> • ULC/ORDC142.13 • Code 31A & 31B IBC • TC 57 	<ul style="list-style-type: none"> • January 01, 2010*
>3000L to 5000L	<ul style="list-style-type: none"> • TC306 / TC406 to CAN/CSAB620 	<ul style="list-style-type: none"> • ULC/ORDC142.13 	<ul style="list-style-type: none"> • 2010
GASOLINE UN1203			
Capacity of Container	Prescribed Container	Alternate Container	Sunset Date on Alternate Container
30L or less	<ul style="list-style-type: none"> • Non-Specification, when the conditions for "Ltd. Qty." are met. 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
>30L to 450L	<ul style="list-style-type: none"> • CGSB-43.146 (UN IBC) • CGSB-43.150 (jerry can or drum) 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
> 450L to	<ul style="list-style-type: none"> • CGSB-43.146 	<ul style="list-style-type: none"> • Code 31A & 31B IBC 	<ul style="list-style-type: none"> • N/A

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3000L	<ul style="list-style-type: none"> • TC306 / TC406 to CAN/CSAB620 	<ul style="list-style-type: none"> • TC 57 	<ul style="list-style-type: none"> • N/A
>3000L to 5000L	<ul style="list-style-type: none"> • TC306 / TC406 to CAN/CSAB620 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A

2. TANK SPECIFICATIONS: ABOVE-GROUND STORAGE

Tanks used for this purpose must be constructed as per the relevant approved design standard (e.g.: as per above table in section 1, ULC-S601** or ULC-S643**), must be in a serviceable condition and must comply with all relevant legislative, regulatory, testing and policy requirements.

*** Are designed as above-ground storage tanks and are NOT approved as mobile refuelling tanks*

3. TESTING REQUIREMENTS FOR MEANS OF CONTAINMENT (TANKS)

Gasoline UN 1203	≤30 L	As per Section 1	As manufactured	<ul style="list-style-type: none"> • Not required
Gasoline UN 1203	>30 L to 450 L	As per Section 1	As manufactured	<ul style="list-style-type: none"> • Internal & external visual inspection ≤60 months
Diesel UN 1202	≤450 L	As per Section 1	As manufactured	Not required
Diesel UN 1202 or Gasoline UN 1203	> 450 L	<ul style="list-style-type: none"> • ULC/ORD 142.13* • CGSB 43.146 • TC, CTC, DOT 57 	As manufactured	Internal & external visual inspection ≤60 months
Diesel UN 1202 or Gasoline UN 1203	> 450 L	TC306/406	As manufactured	<ul style="list-style-type: none"> • External visual inspection yearly • Leak test yearly • Internal visual ≤60 months • Pressure test ≤60 months

** ULC/ORD 142.13 tanks have a sunset date of January 1, 2010 – however sunset date may be extended pending a recent inspection (<60 months) by a Transport Canada (TC) approved testing facility and approval of a TC Equivalency Certificate application. For further information visit <http://www.tc.gc.ca>*

All tests and inspections are to be conducted by a Transport Canada registered facility



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Mobile Fuel Tank Requirements

Reminder! The examples below are a summary of current **legal** requirements

	<p>Placards (1202 / 1203)</p> <ul style="list-style-type: none"> Placards must be visible and legible <p>Small Tanks (< 450 L)</p> <ul style="list-style-type: none"> 1 placard visible from outside the vehicle <p>Large Tanks (> 450 L)</p> <ul style="list-style-type: none"> 4 placards, minimum one visible from outside the vehicle
	<p>Tank ID Plate</p> <ul style="list-style-type: none"> Must be visible and legible

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		<p>Safety Stickers</p> <ul style="list-style-type: none"> • No Smoking • Dyed Diesel / Coloured Fuel
		<p>Nozzle</p> <ul style="list-style-type: none"> • Dyed diesel tag • Nozzle stored above level of tank • 95% limiting
		<p>Tank Secured</p> <ul style="list-style-type: none"> • Must be secured to the vehicle/mode of transport • Straps must be capable of restraining weight of a full tank in motion

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Fire Extinguisher Requirements

Reminder! The examples below are a summary of current **legal** requirements

	<p style="text-align: center;">General</p> <ul style="list-style-type: none"> • All equipment must have a serviceable fire extinguisher • Should be accessible • Minimum rating 6A:80B:C • Require regular checks • Daily as part of circle check • Monthly check • Annual inspection by a qualified agency
	<p style="text-align: center;">Daily</p> <ul style="list-style-type: none"> • Completed by operator • Part of circle check • Ensure pressure gauge is in the green • Note any obvious damage / defects and arrange for repair
	<p style="text-align: center;">Monthly</p> <ul style="list-style-type: none"> • Completed by operator / foreman • Must be recorded (tag, or inventory system) • Ensure serviceable condition • Pressure gauge in the green • Note any obvious damage / defects and arrange for repair
	<p style="text-align: center;">Annual</p> <ul style="list-style-type: none"> • Conducted by a qualified agency • Documentation must be visible on the extinguisher (tag / sticker)

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References

Document / Form	I.D.#
TDG & Fuel Handling	ORC-2PR-810-P-03
Spill Response Form	ORC-3SD-810-F-06

Revisions

#	Purpose	Prepared by	Approved by	Date
N/A	Original version	Scott Russell Health & Safety Coordinator	Chantal Alkins	January 25, 2017
A				
B				
C				
D				
E				