

DRAFT FOR CONSULTATION PURPOSES ONLY

Schedule “C” Long Combination Vehicle Requirements and Operating Conditions

1 Definitions

In this Schedule,

“CMVSS 108” means Canada Motor Vehicle Safety Standard 108 “Lamps, Reflective Devices and Associated Equipment” prescribed by and set out in the *Motor Vehicle Safety Regulations* made under the *Motor Vehicle Safety Act* (Canada);

“designated refuge area” means an area identified in Appendix 4;

“GPS” means a global position satellite;

“LCV” means a long combination vehicle;

“LCV driver’s certificate” means a document issued by or on behalf of the Registrar authorizing a driver to drive an LCV;

“LCV driver-in-training certificate” means a document issued by or on behalf of the Registrar authorizing a driver to drive an LCV under supervision;.

Standard D4956” means the “Standard Specification for Retroreflective Sheeting for Traffic Control (D4956)” that is published by the American Society for Testing and Materials;

2 Application requirements

The applicant for a special move permit for an LCV must provide all of the information that is set out in Appendix 1.

3 Term of permit

A special move permit for an LCV may be issued for a term of 1 year from the date of issue.

4 LCV driver requirements

- (1) Except as provided in subsection (2), an LCV driver must hold and have in their possession a valid LCV driver's certificate that names the special move permit holder as the carrier that employs the driver.
- (2) A person who holds an LCV driver-in-training certificate, may drive an LCV if accompanied by a supervising driver who holds a valid LCV driver's certificate.
- (3) Upon request by the Department, a carrier must be able to provide all documents supporting a driver's qualification.

5 Permissible LCV configurations

The only configurations of an LCV that are eligible to be issued a special move permit are the A-train or B-train configurations described in Appendix 2.

6 Permissible operating routes

- (1) Subject to subsection (2), an LCV may be driven on a route approved by the Department that must be primarily on 4-lane divided highways.
- (2) An LCV may be driven on municipal highways only if approval is granted by the respective municipality and the Department.

7 Operational conditions

- (1) This Section sets out the conditions that apply to the operation of an LCV.
- (2) An LCV must not be driven at a speed that is faster than either of the following limits:
 - (a) the posted speed limit;
 - (b) 90 km/hour.
- (3) An LCV must not exit from the route specified in the special move permit except if there is an emergency situation.
- (4) An LCV must travel in the far-right lane of a highway, except if there is an emergency situation.
- (5) If a trailer in an LCV is not fully loaded, it must be loaded so that the front of the trailer is heavier.
- (6) An LCV must not drive on a highway closer than 500 m ahead of or behind another LCV.

- (7) Subject to subsection (9), an LCV must not drive on a highway in any of the following adverse weather conditions:
- (a) freezing rain, sleet, hail or fog;
 - (b) heavy snowfall accumulations resulting over short time periods;
 - (c) highway surface covered in snow or ice;
 - (d) visibility is less than 500 m due to blowing snow, rain or other conditions;
 - (e) blizzard like conditions exist;
 - (f) slippery road conditions.
- (8) Subject to subsection (9), an LCV must not drive on a highway if there are heavy cross winds, with any of the following load configurations:
- (a) both trailers empty;
 - (b) rear trailer empty and the front trailer partially loaded;
 - (c) rear trailer empty and the front trailer fully loaded.
- (9) If any of the adverse weather conditions set out in subsections (7) and (8) occur while an LCV is being driven on a highway, the LCV driver must reduce speed as necessary and exit the highway at the first available designated refuge area as noted in Appendix 3.
- (10) An LCV must not drive in or near an urban area in contravention of the time of day restrictions on the special move permit.
- (11) An LCV must have its 4-way flashers engaged if it is being driven at a speed of 70 km/hr or less on a 100 series highway.
- (12) Any necessary modification at an intersection to accommodate LCV operation is the responsibility of the special move permit holder.

8 Equipment Conditions

- (1) A truck-tractor in an LCV must meet all of the following criteria:
- (a) it has a minimum horsepower of 460 hp;
 - (b) it develops a minimum torque of 1650ft/lb;
 - (c) it has a 6 x 4 axle configuration;

- (d) it is equipped with a functioning and accurate electronic on-board device that meets all of the following criteria:
 - (i) it records speed, time and date at regular intervals not exceeding 5 minutes in length,
 - (ii) it records speed using a GPS or similar tracking system that displays a legible table, including rows and columns,
 - (iii) it retains data for at a minimum of 90 days.
- (2) An LCV must be equipped with a reflectorized placard that meets all of the following criteria:
 - (a) while the LCV being driven on a highway, it is affixed to the rear of the last semi-trailer of the LCV in a manner that does not cover the vehicle's reflectorized markings, lamps or other safety devices;
 - (b) it is 30 cm by 230-245 cm in size;
 - (c) it has a background of type III or superior yellow retroreflective sheeting that complies with Standard D4956;
 - (d) it has black lettering in Highway Gothic script, E-series modified that is 500 mm high;
 - (e) it has a black pictogram as shown in the following diagram:



- (3) Retroreflective tape must meet the requirements in CMVSS 108;
- (4) Enhanced intensity lighting must meet or exceed the requirements in CMVSS 108;
- (5) Anti-sail (rigid) mud flaps/splash guards must be
 - (i) placed on the rear axle of the truck-tractor and all axle groups of the trailers and convertor dollies, remaining in a rigid downward position at all times, and
 - (ii) at least as wide as the tires and within 350 mm of the ground when the vehicle is empty.
- (6) All conspicuity devices must be kept clean at all times.

- (7) The trailers in an A-train LCV configuration must be coupled in a manner that meets both of the following criteria:
 - (a) the coupling is by means of no-slack pintle hook(s), equipped with a secondary locking device; and
 - (b) the air or hydraulic ram is incorporated in either the pintle hook or the pintle hook eye of the coupling apparatus.

9 Load conditions

- (1) An LCV must not transport livestock.
- (2) An LCV must be loaded and secured and in a manner that will prevent the load from moving in the trailer in accordance with the *Securing of Loads on Vehicles Regulations* .
- (3) Anti-skid mats must be used in a trailer if necessary to prevent movement of a load.
- (4) Dangerous goods must be limited to quantities and product that are not required to be identified by a placard under the *Dangerous Goods Transportation Act* (Canada) and its regulations.

10 Collision reporting procedures

The holder of a special move permit for an LCV must report all of the following information to the Registrar within 48 hours of a collision involving the LCV:

- (a) description of the LCV vehicle configuration involved in the collision;
- (b) GVW of the LCV at the time of the collision;
- (c) load type;
- (d) description of load and placement of load on each trailer of the LCV;
- (e) copy of on-board speed record at time of collision;
- (f) copy of the LCV driver's certificate for the driver of the LCV or the supervising driver, if applicable;
- (g) copy of the driver's log book for the trip during which the collision occurred;
- (h) driver's description of the weather on the trip route and at the collision site;
- (i) estimate of the driver's experience driving LCVs, including number of trips and total distance driven.

Appendix 1: Information and documentations required in application

1 Operation details

All of the following operating details are required in the application:

- (a) Registered owner of the truck-tractor(s) and trailers;
- (b) Carrier name;
- (c) Contact person for the carrier;
- (d) Contact details including telephone, fax, e-mail address, and civic address;
- (e) Insurance company and motor vehicle insurance policy number.

2 Vehicle data

All of the following details about the vehicles for which the application is made are required in the application:

- (a) Number of truck-tractors;
- (b) Number of trailers;
- (c) Details for each truck-tractor including all of the following:
 - (i) Year,
 - (ii) Make,
 - (iii) Licence plate number,
 - (iv) Province or state,
 - (v) Full serial number,
 - (vi) Horsepower,
 - (vii) Torque,
 - (viii) Speed recording device,
 - (ix) Vehicle length.

3 General route details

All of the following details about the proposed route of the vehicles is required in the application:

- (a) Origin;
- (b) Destination;
- (c) One-way or return trip;
- (d) Highway numbers of proposed route;
- (e) Highway exit number (leaving from origin);
- (f) Highway exit number (arriving at destination);
- (g) Frequency of trips (eg daily, weekly);
- (h) Approximate arrival and departure times.

4 Specific operating details

- (1) All of the following specific operating details are required in the application:
 - (a) information about the origin terminal and the destination terminal including a description of the route between the terminal and either the entrance ramp or exit ramp of a 4-lane highway, including street names and intersections;
 - (b) a full description of each turning movement required on the proposed routes, including turning templates and modifications required at intersections.
- (2) If the proposed route travels through a municipality, the application must include confirmation that the applicant has obtained permission from the respective municipality, including permission for any modification required at intersections.

5 Driver information

The application must include the following information for each driver who will be driving 1 of the vehicles for which the application is made:

- (a) Name;
- (b) Driver's licence number;
- (c) Class of driver's licence;
- (d) Endorsements on driver's licence;

- (e) Restrictions on driver's licence;
- (f) Date of issuance of valid LCV driver's certificate or valid driver-in-training certificate, as applicable.

6 Weather Condition

The application must include a copy of instructions concerning weather conditions and vehicle operations to be provided by the carrier to all of their LCV drivers.

Appendix 2- permissible LCV configurations

1 Application of tables in Schedule

Subject to Sections 2 and 3, a special move permit may be issued only for an LCV that complies with

- (a) 1 of the configurations described in the tables in this Schedule; and
- (b) the requirements and limits for weights and dimensions that apply to its configuration that are described in the tables in this Schedule.

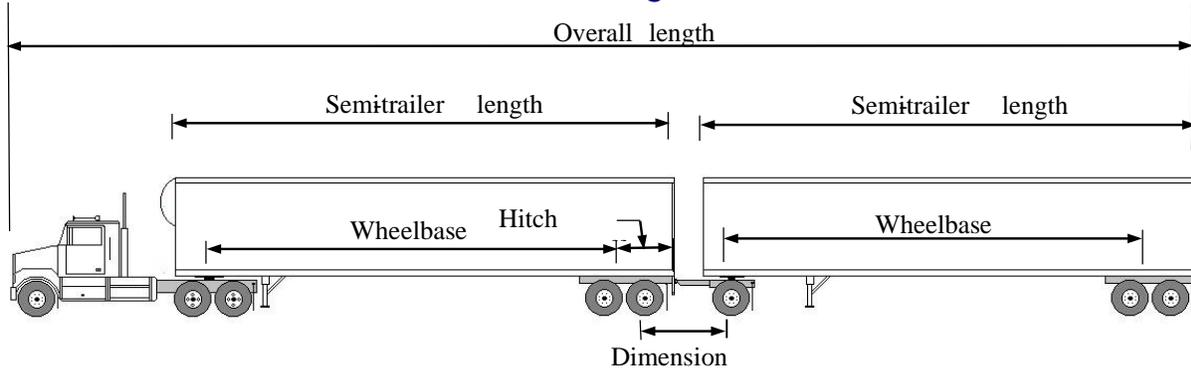
2 Dimensions

- (1) The maximum overall length of the combination of vehicles and load or of each semi-trailer set out in the tables does not include aerodynamic devices attached to the rear of the trailers.
- (2) The track widths set out in the tables in this Schedule apply to LCVs with axles equipped, except for the steering axle, with only dual tires.
- (3) For an LCV with axles equipped with single tires or a combination of single tires and dual tires, the track width is subject to the limits set out in the regulations.
- (4) A B-train configuration may also include a tridem axle group on the second semi-trailer.
- (5) An A-train configuration for which an LCV permit has been issued may be driven on the highway without the second semi-trailer attached but with the converter dolly attached.

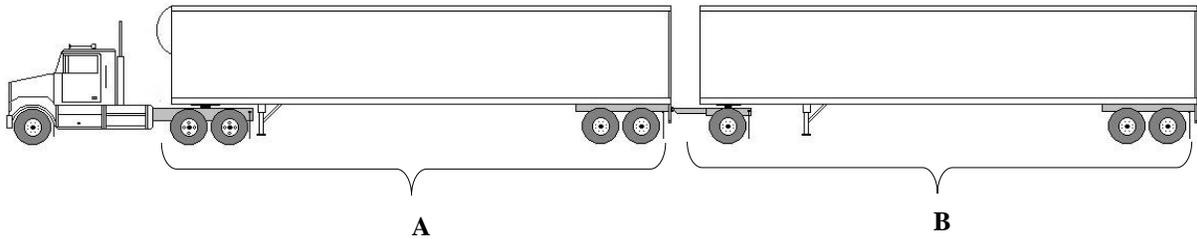
3 Weights

- (1) The maximum axle weight limits and maximum gross vehicle weight limits set out in the tables in this Schedule apply to an LCV equipped, except for the steering axle, with only dual tires.
- (2) For an LCV with axles equipped with single tires or a combination of single tires and dual tires, maximum weights are subject to the limits set out in the regulations.
- (3) In an A-train configuration, the sum of the weights of the truck-tractor drive axles and the lead semi-trailer axles must be greater than the sum of the weights of the axles on the dolly and the second semi-trailer.
- (4) In a B-train configuration, the sum of the weights of the truck-tractor drive axles must be greater than the weight of the axles on the second semi-trailer.

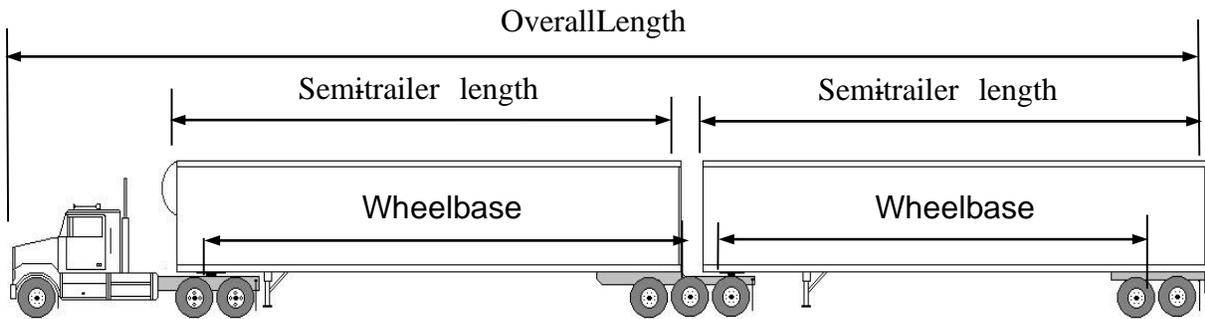
A-Train Configurations



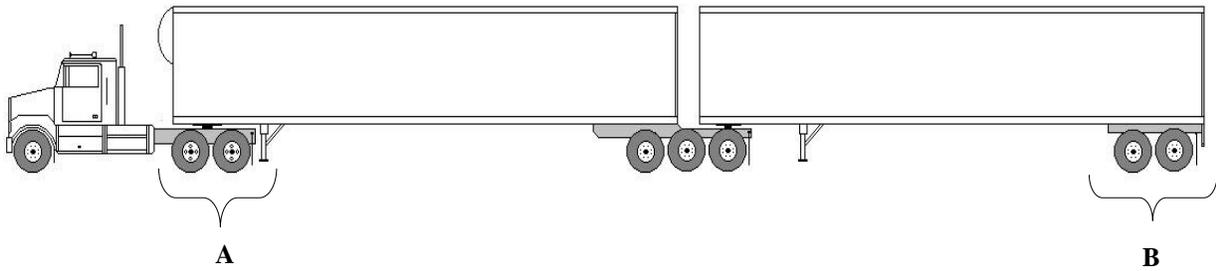
Dimension Limits- A-Train Configurations	
Dimension	Limit
Vehicle Combination and Load	
Overall length	Maximum 40 m
Overall width	Maximum 2.6 m
Overall height	Maximum 4.15 m
Truck-Tractor	
Interaxle Spacing	Minimum 3.5 m
Tandem Axle Spread	1.2 m to 1.85 m
Wheelbase	Maximum 6.2 m
Converter Dolly	
Drawbar Length	Maximum 3.0 m
Number of Axles	Not Controlled
Dimension "A"	Minimum 2.7 m
Lead Semi-trailer	
Overall length	Minimum 12.2 m, Maximum 16.2 m
Wheelbase Tandem	Minimum 10.0 m, Maximum 12.5 m
Wheelbase Tridem	Minimum 9.0 m, Maximum 12.5 m
Hitch Offset Tandem	Maximum 2.8 m
Hitch Offset Tridem	Maximum 3.4 m
Track Width	2.5 m to 2.6 m
Second Semi-trailer	
Overall length	Minimum 12.2 m, Maximum 16.2 m
Wheelbase	Minimum 9.0 m, Maximum 12.5 m
Interaxle Spacing	Maximum 12.5 m
Track Width	2.5m to 2.6 m



Weight Limits- A-Train Configurations		
Axle Weight Limits		
Axle Groups	Axle spread	Weight Limit (Maximum)
Steering Axle	N/A	5,500 kg
Single Axle	N/A	9,100 kg
Tandem Axle		
	< 1.2 m	9,100 kg
	1.2 m to 1.85 m	18,000 kg
Tridem Axle		
	< 2.4 m	18,000 kg
	2.4 m to < 3.0 m	21,000 kg
	3.0 m to < 3.6 m	24,000 kg
	3.6 m to 3.7 m	26,000 kg
Gross Vehicle Weights		
Number of Axles		Weight Limit (Maximum)
5 Axles		41,900 kg
6 Axles		49,800 kg
7 Axles		57,700 kg
8 or more Axles		62,500 kg



Dimension Limits - B-Train Configurations	
Dimension	Limit
Vehicle Combination and Load	
Overall Length	Maximum 40 m
Overall width	Maximum 2.6 m
Overall height	Maximum 4.15 m
Truck-Tractor	
Interaxle Spacing	Minimum 3.5 m
Tandem Axle Spread	1.2 m to 1.85 m
Wheelbase	Maximum 6.2 m
Lead Semi-trailer	
Overall Length	Minimum 12.0 m, Maximum 14.65 m
Wheelbase	Maximum 13.5 m
Tridem Spread	2.4 m to 3.7 m
Track Width	2.5 m to 2.6 m
Second Semi-trailer	
Overall length	Minimum 12.0 m, Maximum 16.2 m
Wheelbase	Maximum 11.5 m
Tandem Spread	1.2 m to 1.85 m
Tridem Spread	2.4 m to 3.7 m
Effective Rear Overhang	Maximum 35% of Wheelbase
Track Width	2.5 m to 2.6 m



Weight Limits – B-Train Configurations		
Axle Weights		
Axle Groups	Axle Spread	Weight Limit (Maximum)
Steering Axle	N/A	5,500 kg
Single Axle	N/A	9,100 kg
Tandem Axle		
	less than 1.2 m	9,100 kg
	1.2 m to 1.85 m	18,000 kg
Tridem Axle		
	< 2.4 m	18,000 kg
	2.4 m to < 3.0 m	21,000 kg
	3.0 m to < 3.6 m	24,000 kg
	3.6 m to 3.7 m	26,000 kg
Gross Vehicle Weights		
Number of axles	Weight Limit (Maximum)	
5 Axles	41,700 kg	
6 Axles	50,600 kg	
7 Axles	59,500 kg	
8 or more Axles	62,500 kg	

Appendix 3- List of LCV refuge areas

4

Definitions

In this Appendix,

“EB means eastbound;

“NB” means northbound;

“SB” means southbound;

“WB” means westbound.

Highway 104			
Exit	Location	WB refuge (to NB)	EB refuge (to Truro)
13	Debert	On ramp	No
10	Station Road	On ramp	On ramp
	Toll Plaza	Yes	Yes
7	Thompson Station	No	On ramp
6	Oxford	On ramp	No
4	So. Albion Street	On ramp	No
	Amherst Compliance Station	Yes	Yes

Highway 102			
Exit	Location	NB refuge (to Truro)	SB refuge (to HRM)
6	HI Airport	On ramp	No

7	Enfield Compliance Station	N/A	Yes
8	Elmsdale	No	On ramp
10	Shubenacadie	On ramp	No
11	Stewiacke	No	On ramp
	Kelly Lake Compliance Station	Yes	N/A