

Guideline for Increased Front Steer Axle Mass



in Queensland

**Form Number 20
Version 3
June 2011**

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1 Statutory authority

- 1.1 This guideline is issued under the Statutory Instruments Act 1992, Part 4, Division 3, Subdivision 2 in accordance with the provisions of the Transport Operations (Road Use Management—Mass Dimensions and Loading) Regulation 2005, Part 6, Division 1 – Guidelines.

2 Date of Commencement

- 2.1 This form commenced on 30 June 2011.

3 Application

- 3.1 The Guideline for Increased Front Steer Axle Mass in Queensland Form 20 Version 2 is now repealed.

- 3.2 This guideline is issued as an alternative means of complying with:

- (a) *Transport Operations (Road Use Management—Mass, Dimensions and Loading) Regulation 2005*, Schedule 1, section 4 (1) – Mass limits for combinations.
- (b) *Transport Operations (Road Use Management—Mass, Dimensions and Loading) Regulation 2005*, Schedule 2 – Single steer axles on - (b) any other motor vehicle.
- (c) *Transport Operations (Road Use Management—Mass, Dimensions and Loading) Regulation 2005*, Schedule 2 – Single axle or single axle group fitted with single tyres with a section width of – (a) less than 375 mm.
- (d) *Guideline for Multi-combination Vehicles in Queensland Form Number 1*, section 6.1 (6.1.1 & 6.3.1) – *Mass Limits*.
- (e) *Guideline for Higher Mass Limits for Vehicles with Road Friendly Suspensions Form Number 10*, section 3.2 (g) – Non-Eligible Vehicles.
- (f) *Guideline for Operation of Excess Mass Special Purpose Vehicles and Vehicles Carrying an Indivisible Item to 59.5 tonnes Form Number 11*, section 6.1.2 – Application of Section.
- (g) *Guideline for Operation of Excess Mass Special Purpose Vehicles and Vehicles Carrying an Indivisible Item to 59.5 tonnes Form Number 11*, Section 6.2.1 - Mass Limits for Axles and Axle Groups for Load Carrying Vehicle Combinations - Table 5 – item 1 reference to 6 tonnes for 2 tyres (steer).
- (h) *Guideline for Operation of Excess Mass Special Purpose Vehicles and Vehicles Carrying an Indivisible Item to 59.5 tonnes Form Number 11*, Section 6.3 (6.3.1), (6.3.2 a & b – reference to 59.5 tonnes) - Total Mass Limits for Load – Carrying Vehicle Combinations.
- (i) *Guideline for Motor Truck and Dog Trailer Combinations up to 50 tonnes total in Queensland Form Number 18*, section 6.3.1 (c), (e) & (f) – Mass Limits and section 6.5 - Vehicle and combination axle spacings.
- (j) *Guideline for Concessional Mass Limits Form Number 21*, section 4.1 Gross vehicle combination limits sub-section 4.1.2.

3.3 This guideline is not an exemption from operating under the requirements of the *Transport Operations (Road Use Management—Mass, Dimensions and Loading) Regulation 2005* or any other approval issued under the provisions of Part 6 – Guidelines and Permits of the *Transport Operations (Road Use Management—Mass, Dimensions and Loading) Regulation 2005*, except where a different mass limit is specified in this guideline.

3.4 Definitions

For the purpose of this guideline:

"**ADR**" means Australian Design Rule.

An "**approval plate**" means a decal, label or plate/s issued by a competent entity that is made of a material and fixed in such a way that they cannot be removed without clear evidence of tampering. The approval plate should be of similar dimensions to the Department of Infrastructure and Transport Compliance Plate Approval (CPA) plate/label (that is, approximately 100mm x 50mm) and which contain the following information:

- Manufacturer or trade name or mark of the front underrun protection vehicle, or front underrun protection device or vehicle in the case of cabin strength, or protrusion as appropriate;
- In the case of front underrun protection device or protrusion, the make of the vehicle or vehicles and the model or models of vehicle, the component or device has been certified to fit;
- Competent entity unique identification number;
- In the case of a front underrun protection device or protrusion, the approval number issued by the competent entity;
- Purpose of the approval, for example, approval for a front underrun protection device, or for a front underrun protection vehicle, or for cabin strength, or for the protrusion, if fitted, is compatible with the vehicle's compliance as a front underrun protection vehicle, or other words or markings with an equivalent meaning; and
- A statement that the vehicle was manufactured to comply with ADR 80/01 or a later version.

"**Competent entity**" means a CPA holder of heavy vehicle manufacturing or a person or organisation appointed by an Australian Road Authority, and issued with a unique identification number, to certify that the requirements for front underrun protection and cabin strength have been met, and continue to be met, and who may authorise the fixing of approval plates to a FUPD and a vehicle. In the case of a CPA holder the unique identification number may be the Department of Infrastructure and Transport road certification licence number.

"**CPA**" means compliance plate approval (indicated by the fitting of a compliance plate by the vehicle manufacturer).

"**Front Underrun Protection Vehicle**" means a vehicle that complies with UN ECE Regulation No 93 (UN ECE R93).

"Front Underrun Protection Device" means a device fitted to a vehicle that has been tested in accordance with UN ECE R93 and complies with the requirements of UN ECE R93 or where approval has been granted by an "E-mark" issued in accordance with UN ECE R93.

"E-mark" means an approval mark arranged and issued in accordance with Annex 4 "Arrangement of Approval Marks" of UN ECE Regulation 93.

"Protrusions" means a fitting such as 'bull bars', 'roo-bars', 'nudge-bars' etc. and it does not include driving lights, fog lights, running lights, aerials etc.

"UN ECE" means United Nations Economic Commission for Europe.

"GVM" means the gross vehicle mass of a vehicle.

"GCM" means the gross combination mass of a vehicle.

4 Operational

4.1 Mass limits

4.1.1 An eligible vehicle is permitted to operate up to 6.5 tonnes on the front steer axle and an increase of up to 0.5 tonne on the vehicle's GVM or GCM provided the vehicle meets the requirements of this guideline. For example if a front steer axle has a determined mass of 6.4 tonnes, the GVM or GCM can only be increased by 0.4 tonnes.

4.1.2 An eligible vehicle is subject to the same axle spacing/mass schedule formulas as if the vehicle was not subject to the additional mass provided by this guideline.

5 Standards

5.1 Front underrun protection systems (UN ECE Regulation No 93)

5.5.1 An eligible vehicle must:

- (a)** be a front underrun protection vehicle, verified by the fitment of an approval plate in the proximity of the vehicle's CPA plate/label; or
- (b)** be fitted with a front underrun protection device, verified by the fitment of an approval plate on the device in a relatively conspicuous and protected location, typically on the rear face of the component.

5.1.2 If any protrusion is fitted to the front of an eligible vehicle, it must be verified by the fitment of an approval plate stipulating either the protrusion is a front underrun protection device as outlined in 5.1.1 (b) or that the protrusion does not negate the vehicles compliance with the front underrun protection system.

5.2 Cabin strength (UN ECE Regulation No 29)

5.2.1 An eligible vehicle must:

- (a) comply with Regulation No. 29 made under the UN ECE Agreement (UN ECE R29) for cabin strength; and
- (b) be verified by the fitment of an approval plate in the proximity of the vehicle's CPA plate/label.

5.3 Emission standard

5.3.1 An eligible vehicle must:

- (a) be fitted with an engine complying with the emission control requirements of ADR 80/01 or a later version; and
- (b) be verified with an approval plate that is affixed on the vehicle cabin in the proximity of the vehicle's CPA plate/label except where the vehicle is fitted with a compliance plate dated from January 2008 in which case it will be deemed to comply with ADR 80/01 or a later version.

5.4 Manufacturer's ratings

5.4.1 An eligible vehicle must not exceed the manufacturer's ratings for the vehicle or combination or any component fitted to the vehicle or combination.

5.5 Tyre requirements

5.5.1 The front steer axle of an eligible vehicle must be fitted with tyres of a nominal section width of at least 280 mm.

5.5.2 An eligible vehicle must not exceed the tyre manufacturer's ratings.

6 Vehicle types

6.1 Eligible vehicles

6.1.1 An eligible vehicle must have a GVM greater than 15 tonnes and can be any of the following type of vehicle categories:

- (a) Rigid trucks either singly or in dog/tag/pig combinations;
- (b) Prime movers either singly or in semitrailer combination (includes low loaders, low loader dollies and jinkers);
- (c) B-double combinations;
- (d) B-triple combinations;
- (e) Road train combinations.

6.2 Non-eligible vehicles

6.2.1 The following vehicles are not eligible to receive additional mass under this guideline:

- (a)** Twin steer vehicles;
- (b)** Buses or coaches;
- (c)** Vehicles and combinations which are already permitted to operate a steer axle mass of 6.5 tonnes or greater.