

## Type-Approval Procedure

### Information System of the German Type-Approval Authority

#### **Directive 2007/46/EC and Regulation (EC) No 595/2009;**

- **Application of Regulation (EU) No 195/2013 with regard to providing details of consumption values of heavy duty vehicles in Annex VIII of Directive 2007/46/EC for vehicles without eco-innovations**

#### The issue or question at hand:

Vehicles included in category N, amongst others, are approved under Directive 2007/46/EC. Test results regarding sound levels, exhaust emissions and fuel consumption must be included as an enclosure to the type-approval certificate as set out in Annex VIII to the above Directive. The corresponding values are taken from the respective system approvals.

As of 1 July 2013 the application of Regulation (EU) No 195/2013 in relation to Directive 2007/46/EC is mandatory for new vehicle types. Amongst others, this Regulation amends Annex VIII.

Annex IV of Directive 2007/46/EC contains a list of separate regulatory acts that have to be complied with for the purpose of EC type-approval of vehicles. Regulation (EC) No 595/2009 applies in relation to emissions and fuel consumption of new types of heavy duty vehicles. Regulation (EC) No 595/2009 lists fuel consumption and CO<sub>2</sub> emissions in units of g/kWh; in the test results under new Annex VIII of Directive 2007/46/EC, however, these are stated in l/100 km and g/km.

This gives rise to the following questions:

1. How shall the test results be displayed and which unit shall be used to specify fuel consumption and CO<sub>2</sub> emission rate of heavy duty vehicles in the test results under Annex VIII of Directive 2007/46/EC?
2. Do existing vehicle type-approvals need to include the new Annex VIII of Directive 2007/46/EC if the vehicles do not feature any eco-innovations?

#### Results:

1. The nomenclature specified in Regulation (EC) No 195/2013 must be adopted in full. Specifying the rates of fuel consumption and CO<sub>2</sub> emissions is required in every case and for all vehicle classes.

Regulation (EC) No 595/2009 allows a conversion into l/100 km only for vehicles with a reference mass of < 2610kg. Annex XVI of Regulation (EU) No 582/2011 implementing Regulation (EU) No 595/2009 amends Annexes I and III of Directive 2007/46/EC and the unit g/kWh is adopted in these Annexes. Thus, these should also be used correspondingly in the test results under Annex VIII. Measurement results under the separate regulatory acts that have no units congruent to the unit specified in Annex VIII need also only be set out in accordance with the relevant specifications. Setting out fuel consumption and CO<sub>2</sub> emissions from the test cycles (WHSC & WHTC) for heavy duty vehicles in g/kWh is therefore permissible.

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2. If the vehicle type features no eco-innovations, existing vehicle type approvals do not have to be expanded in terms of the new Annex VIII; however, such addition can be made later, even without compliance with the other provisions of Regulation (EU) No 195/2013. This applies to all vehicle classes.

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