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(Eighty-fourth session, 5-9 May 2003,  
agenda item 11.4.)

**PROPOSAL FOR NEW REGULATION WITH REGARD TO THE TYPE APPROVAL OF A  
HEATING SYSTEM AND OF A VEHICLE WITH REGARD TO ITS HEATING SYSTEM**

Transmitted by the expert from the International Organization  
of Motor Vehicle Manufacturers (OICA)

Addendum 1

Note: The text reproduced below was prepared by the expert from OICA in order to update its proposal for the draft Regulation. It is based on the text of a document distributed without a symbol (informal document No. 17) at the eighty-third session (TRANS/WP.29/GRSG/62, para. 41). The amendments are marked in **bold characters**.

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Note: This document is distributed to the Experts on General Safety Provisions only

Annex 1, Part 1, appendix 1, amend to read:

“Annex 1

Part 1

Appendix 1

## MODEL INFORMATION DOCUMENT

(for a vehicle type in accordance with paragraph 4.3. of the Regulation relating to the ECE Type Approval of a heating system and of a vehicle with regard to its heating system)

If the heating system or its component parts have electronic controls, information concerning their performance must be supplied

### **0. GENERAL**

- 0.1. Make (trade name of manufacturer): .....
- 0.2. Type and general commercial description(s): .....
- 0.3. Means of identification of type, if marked on the vehicle: .....
- 0.4. Location of that marking: .....
- 0.5. Category of vehicle: 1/ .....
- 0.6. Name and address of manufacturer: .....
- 0.7. Address(es) of assembly plant(s): .....

### **1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE**

- 1.1. Photographs and/or drawings of a representative vehicle:

### **2. POWER PLANT**

- 2.1. **Manufacturer's engine code:** .....  
**(as marked on the engine, or other means of identification)**
- 2.2. **Working principle: positive ignition/compression ignition, four stroke/two stroke** 2/
- 2.3. **Number and arrangement of cylinders:** .....

- 2.4. **Maximum net power: .....kW at .....min<sup>-1</sup>  
(manufacturer's declared value)**
- 2.5. **Cooling system (liquid/air) 2/**
- 2.6. **Nominal setting of the engine temperature control mechanism: .....**
- 2.7. **Pressure charger: yes/no**
- 2.7.1. **Type(s).....**
- 2.7.2. **Description of the system (e.g. maximum charge pressure:  
..... kPa, wastegate if applicable)**
- 3. **BODYWORK**
- 3.1. A brief description of the vehicle with regard to the heating system if the heating system uses the heat of the engine cooling fluid
- 3.2. A brief description of the vehicle type with regard to the heating system if the cooling air or the exhaust gases of the engine are used as the heat source, including:
- 3.3. Layout of the heating system showing its position in the vehicle: .....
- 3.4. Layout drawing of the heat exchanger for heating systems using the exhaust gases for heating or of the parts where the heat exchange takes place (for heating systems using the engine cooling air for heating):
- 3.4.1. Sectional drawing of the heat exchanger or the parts respectively where the heat exchange takes place, indicating the thickness of the wall, materials used and the characteristics of the surface:
- 3.4.2. Specifications shall be given for further important components of the heating system, such as e.g. the heater fan, with regard to their method of construction and technical data
- 3.5. Maximum electrical consumption: .....kW

4. ~~ADDITIONAL INFORMATION~~

4.1. ~~Heating system using heat from the engine cooling fluid/exhaust gases/engine cooling air~~

4.2. ~~Combustion heaters, if any~~

5. ~~REMARKS~~ .....

1/ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3), annex 7 (TRANS/WP.29/78/Rev.1/Amend.2)

2/ **Strike out which does not apply.”**

Annex 1, Part 2, appendix 1,

Insert a new item 10, to read:

**“10. The vehicle is approved according to the requirements of annex 9 (ADR): YES/NO 2/. ”**

Annex 3,

Paragraph 1., correct the reference to “paragraph 5.2.” to read “paragraph 6.2.”

Paragraph 4.1., correct the reference to “paragraph 6.1.3.” to read “paragraph 4.”

Annex 5,

Paragraph 2., amend to read:

**“2. The surface temperature of any part of the heating system likely to come into contact with any driver or passenger of the vehicle during normal road use shall be measured with a contact thermometer. No such part or parts shall exceed a temperature of 70 °C for uncoated metal or 80 °C for other materials.”**

Insert new paragraphs 2.1. to 2.3., to read:

**“2.1. In the case of exposed parts of the heating system outside the passenger compartment, and in the case of overheating, the temperature shall not exceed 110°C.**

- 2.2. In the case of vehicles of categories M1 and N, no part of the system likely to come into contact with seated passengers during normal road use of the vehicle, with the exception of the outlet grille, shall exceed a temperature of 110 °C.**
- 2.3. In the case of vehicles of categories M2 and M3, no part of the system likely to come into contact with passengers during normal road use of the vehicle shall exceed a temperature of 70 °C for uncoated metal or 80 °C for other materials.”**

Annex 9, the paragraphs following 3.1.1., numbered as 3.3.1 and 3.3.2., should be renumbered as paragraphs 3.1.2. and 3.2. respectively.

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