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| Submitted by the expert from France | Informal document **GRSG-112-10**  (112th GRSG, 24-28 April 2017  agenda item 17.(b)) |

**Proposal for Supplement 4 to the original version of Regulation No. 122 (Heating systems)**

The text reproduced below was prepared by the experts from France. It proposes an amendment to UN Regulation No. 122 according to the application of annexes regarding heaters located outside the passenger compartment and using water as a transfer medium. The modifications to the current text of UN Regulation No. 122 are marked in bold for new characters.

**I. Proposal**

*Paragraph 6.2.1.,* amend to read:

"6.2.1. The following table indicates which annexes apply to each type of heating system within each vehicle category:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Heating system | Vehicle category | Annex 4  Air quality | Annex 5  Temperature | Annex 6  Exhaust | Annex 8  LPG safety |
| Engine waste  heat - water | M |  |  |  |  |
| N |  |  |  |  |
| O |  |  |  |  |
| Engine waste  heat - air  See Note 1 | M | Yes | Yes |  |  |
| N | Yes | Yes |  |  |
| O |  |  |  |  |
| Engine waste  heat - oil | M | Yes | Yes |  |  |
| N | Yes | Yes |  |  |
| O |  |  |  |  |
| Gaseous fuel  heater - See  Note 2 | M | Yes | Yes | Yes | Yes |
| N | Yes | Yes | Yes | Yes |
| O | Yes | Yes | Yes | Yes |
| Liquid fuel  heater  See Note 2 | M | Yes | Yes | Yes |  |
| N | Yes | Yes | Yes |  |
| O | Yes | Yes | Yes |  |
| Electric heater  **See Note 2** | M |  | Yes |  |  |
| N |  | Yes |  |  |
| O |  | Yes |  |  |

Note 1: Heating systems which comply with the requirements of annex 3 are exempt from these test requirements.

Note 2: **Heaters** located outside the passenger compartment, using water as a transfer medium, are deemed to comply with annexes 4 and 5."

II. Justification

All heaters located outside the passenger compartment and using water as a transfer medium do not need to fulfil the annexes on air quality and temperature without restriction to combustion heaters only.

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