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UN Regulation No. 122 (Heating systems)

Proposal for Supplement 5 to the original version of UN Regulation No. 122 (Heating systems)

Submitted by the expert from France*

In the text reproduced below, prepared by the expert from France, it is proposed to amend UN Regulation No. 122 to incorporate systems for heating the passenger compartment by heat pump. The proposed amendments to the current text of UN Regulation No. 122 are given in bold.

* In accordance with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, cluster 02.4), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



I. Proposal

Paragraph 5.3, amend to read:

“5.3 Vehicle Installation Requirements for Combustion Heaters, **Electric Heaters and Heat Pump Heating Systems.**”

Add a new paragraph 6.1.6, to read:

“6.1.6 ‘*Heat pump heating system*’ means any type of thermodynamic heating device deemed to make use of renewable energy that draws calories from one environment (air or water) in order to transfer them to another with a view to increasing the temperature of the interior of the vehicle.”

Paragraph 6.2.1, table, add a new row, to read:

“

<i>Heating system</i>	<i>Vehicle category</i>	<i>Annex 4 Air quality</i>	<i>Annex 5 Temperature</i>	<i>Annex 6 Exhaust</i>	<i>Annex 8 LPG safety</i>
...
Heat pump	M	Yes	Yes		
	N	Yes	Yes		
	O	Yes	Yes		

”

II. Justification

Some manufacturers wish to use a heat pump as a heating system. The present proposal defines this new technology for heating the passenger compartment and sets general requirements for it. It is proposed that annexes 4 and 5 on the test procedure for air quality and the test procedure for temperature should apply; they will ensure that the heat pump operates efficiently and that the air in the interior of the passenger compartment remains unpolluted.