
Proposal for a new Supplement to the 05, 06 and 07 series of amendments to Regulation No. 83 (Emissions of M1 and N1 vehicles)

This document proposes to align UN Regulation No.83 with UN Regulation No.154. The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

In the 05, 06 and 07 Series of Amendments,

Paragraph 7.1. of Annex 7, amend to read:

"7.1. For routine end-of-production-line testing, **as an alternative to conducting the Type 4 test as described in this Annex**, the holder of the approval may demonstrate compliance by sampling vehicles which shall meet the following requirements."

Add paragraphs 7.1.1. and 7.1.2. to Annex 7, to read:

"7.1.1. **In case of vehicles with a sealed fuel tank system, at the request of the manufacturer and in agreement with the responsible authority, alternative procedures to paragraphs 7.2. to 7.4. of this Annex can be applied.**

7.1.2. **When the manufacturer chooses to use any alternative procedure, all the details of the conformity test procedure shall be recorded in the type approval documentation."**

In the 05 and 06 Series of Amendments,

Paragraph 7.2.2. of Annex 7, amend to read:

"7.2.2. A pressure of ~~370 ± 10 mm of H₂O~~ **3.70 kPa ± 0.10 kPa** shall be applied to the fuel system. **At the request of the manufacturer and with approval of the responsible authority, an alternative pressure can also be applied, taking into account the pressure range in use of the fuel system."**

In the 07 Series of Amendments,

Paragraph 7.2.2. of Annex 7, amend to read:

"7.2.2. A pressure of ~~370 mm ± 10 mm of H₂O~~ **3.70 kPa ± 0.10 kPa** shall be applied to the fuel system. **At the request of the manufacturer and with approval of the responsible authority, an alternative pressure can also be applied, taking into account the pressure range in use of the fuel system."**

In the 05, 06 and 07 Series of Amendments,

Paragraph 7.2.4. of Annex 7, amend to read:

"7.2.4. Following isolation of the fuel system, the pressure shall not drop by more than **0.50 kPa** ~~50 mm of H₂O~~ in five minutes."

Add paragraph 7.2.5. to Annex 7, to read:

"7.2.5. **At the request of the manufacturer and in agreement with the responsible authority the function for leakage can be demonstrated by an equivalent alternative procedure."**

In the 05 and 06 Series of Amendments,

Paragraph 7.3.2. of Annex 7, amend to read:

"7.3.2. A pressure of ~~370 ± 10 mm of H₂O~~ **3.70 kPa ± 0.10 kPa** shall be applied to the fuel system. **At the request of the manufacturer and with approval of the responsible authority, an alternative pressure can also be applied, taking into account the pressure range in use of the fuel system."**

In the 07 Series of Amendments,

Paragraph 7.3.2. of Annex 7, amend to read:

"7.3.2. A pressure of ~~370 mm ± 10 mm of H₂O~~ **3.70 kPa ± 0.10 kPa** shall be applied to the fuel system. **At the request of the manufacturer and with approval of the responsible authority, an alternative pressure can also be applied, taking into account the pressure range in use of the fuel system."**

In the 05, 06 and 07 Series of Amendments,

Paragraph 7.3.5. of Annex 7, amend to read:

"7.3.5. The pressure of the fuel system shall drop to ~~below a pressure less than 100 mm of H₂O in not less than 30 seconds~~ but **2.5 kPa above ambient pressure** within ~~two~~ **one** minutes."

Paragraph 7.3.6. of Annex 7, amend to read:

"7.3.6. At the request of the manufacturer **and in agreement with the responsible authority** the functional capacity for venting can be demonstrated by equivalent alternative procedure. ~~The specific procedure should be demonstrated by the manufacturer to the Technical Service during the type approval procedure."~~

Paragraph 7.4.4.3. of Annex 7, amend to read:

"7.4.4.3. At the request of the manufacturer **and in agreement with the ~~Type Approval Authority~~ responsible authority**, an alternative purge test procedure can be used, ~~if the procedure has been presented to and has been accepted by the Technical Service during the type approval procedure."~~

Delete paragraphs 7.5., 7.5.1., 7.5.2. and 7.6. of Annex 7.

II. Justification

1. Alignment with Regulation No. 154
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