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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Pollution and Energy****Seventy-second session**

Geneva, 12-15 January 2016

Item 4(a) of the provisional agenda

**Heavy duty vehicles - Regulations Nos. 49****(Emissions of compression ignition and positive  
ignition (LPG and CNG) engines) and 132****(Retrofit Emissions Control devices (REC))****Proposal for a new Supplement to the 06 series of  
amendments to Regulation No. 49 (Compression ignition and  
positive ignition (LPG and CNG) engines)****Submitted by the expert from the European Commission\***

The text reproduced below was prepared by the expert from the European Commission to correct the documentation requirements for the Off-Cycle Emissions. The modifications to the current text of Regulation No. 49 are marked in bold for new or strikethrough for deleted characters.

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\* 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, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



## I. Proposal

*Annex 10, paragraph 11.*, amend to read:

"11. Documentation

The Type Approval Authority ~~may decide to~~ **shall** require that the manufacturer provides a documentation package. This should describe any element of design and emission control strategy of the engine system and the means by which it controls its output variables, whether that control is direct or indirect.

The information ~~may~~ **shall** include a full description of the emission control strategy. In addition, this ~~could~~ **shall** include information on the operation of all AES and BES, including a description of the parameters that are modified by any AES and the boundary conditions under which the AES operate, and indication of which AES and BES are likely to be active under the conditions of the test procedures in this annex."

## II. Justification

The changes proposed will make it necessary for the manufacturers to provide all information on Auxiliary Emission Strategies (AES) and Base Emission Strategies (BES) as part of their documentation to the Type Approval Authority and harmonize it with the requirements of paragraph 5.1.4.3. of Regulation No. 49.

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