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| UNECE GRE IWG EMCChange Proposal Form**(One major comment per form.)** **(Shaded blocks for the use by the IWG Secretary only.)** |
| **IWG document Number:** | **IWG-EMC-xx-xx** | **Date:** 8 JAN 2024 |
| **Proposer’s Name, Affiliation, and E-mail:**CLEPA SEG EMCKlaus Pilatus (CLEPA, consultant.tr2@clepa.be)Andrea Scholl (Bosch, andreamarie.scholl@de.bosch.com, chair of the SEG EMC)Hyebin Yun (MOBIS, hyebin.yun@mobis.com) | **Paragraph:**7.4.2 and Annex 18 | **Page:**21 and 144 of [UN Regulation No. 10 - Rev.6](https://www.unece.org/fileadmin/DAM/trans/main/wp29/wp29regs/2019/E-ECE-324-Add.9-Rev.6.pdf) |
| **Summary of Change** (25 words or less)**:**The parameters have been revised in accordance with the updated Flicker reference standards, and incorrect paragraph references have been corrected, proposing this as R10.07 Supplement 2 |
| **Reason for Change** (Justification)**:****1. Update Parameters to incorporate reference standards updates**In the R10.07, the reference standard IEC 61000-3-3 and IEC 61000-3-11 have been updated.* IEC 61000-3-3 Edition 2.0 🡪 Edition 3.2
* IEC 61000-3-11 Edition 1.0 🡪 Edition 2.0

With the update of the reference standards, certain parameter values have been clarified. To ensure consistency and alignment with the latest standards, these corrections should be incorporated into R10.This change is **not** a technical modification but an update to reflect the latest standards.**2. Correction of incorrect IEC reference in test conditions of Annex 18**It has been identified that the IEC reference in the Test Conditions section of Annex 18 is incorrect, and the necessary corrections have been made.* Current: Paragraph 4 - Assessment of voltage changes, voltage fluctuations and flicker
* Revised: Paragraph 6 - Test conditions
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| **Original text:****7.4. Specifications concerning emission of voltage changes, voltage fluctuations and flicker on AC power lines from vehicles.**7.4.2. Vehicle type approval limit7.4.2.1. If measurements are made using the method described in Annex 12, the limits for rated current ≤ 16 A per phase and not subjected to conditional connection are those defined in IEC 61000-3-3, paragraph 5:- The value of Pst shall not be greater than 1.0;- The value of Plt shall not be greater than 0.65;- The value of d(t) during a voltage change shall not exceed 3.3 per cent for more than 500 ms;- The relative steady-state voltage change, dc, shall not exceed 3.3 per cent;- The maximum relative voltage change dmax, shall not exceed 6 per cent.7.4.2.2. If measurements are made using the method described in Annex 12, the limits for rated current > 16 A and ≤ 75 A per phase and subjected to conditional connection are those defined in IEC 61000-3-11, paragraph 5:- The value of Pst shall not be greater than 1.0;- The value of Plt shall not be greater than 0.65;- The value of d(t) during a voltage change shall not exceed 3.3 per cent for more than 500 ms;- The relative steady-state voltage change, dc, shall not exceed 3.3 per cent;- The maximum relative voltage change dmax, shall not exceed 6 per cent.**Annex 18**3. Test Arrangements3.1. The tests for ESA in configuration "REESS charging mode coupled to the power grid" with rated current ≤ 16 A per phase and not subjected to conditional connection shall be performed according to paragraph 4. of IEC 61000-3-3.3.2. The tests for ESA in configuration "REESS charging mode coupled to the power grid" with rated current > 16 A and ≤ 75 A per phase and subjected to conditional connection shall be performed according to paragraph 6. of IEC 61000-3-11. |
| **Revise To:***Paragraph 7.4.*, amend to read:7.4. Specifications concerning emission of voltage changes, voltage fluctuations and flicker on AC power lines from vehicles.7.4.2. Vehicle type approval limit7.4.2.1. If measurements are made using the method described in Annex 12, the limits for rated current ≤ 16 A per phase and not subjected to conditional connection are those defined in IEC 61000-3-3, paragraph 5:- The value of P**~~st~~st** shall not be greater than 1.0;- The value of P**~~lt~~lt** shall not be greater than 0.65;- **Tmax,** **t~~T~~**he **accumulated time** value of d(t) **with a deviation exceeding 3.3 per cent** during a **single** voltage change **at the EUT terminals,** shall not exceed **~~3.3 per cent for more than~~** 500 ms;- The **maximum** relative steady-state voltage change, d**~~c~~c**, shall not exceed 3.3 per cent;- The maximum relative voltage change d**~~max~~max**, shall not exceed 6 per cent.7.4.2.2. If measurements are made using the method described in Annex 12, the limits for rated current > 16 A and ≤ 75 A per phase and subjected to conditional connection are those defined in IEC 61000-3-11, paragraph 5:- The value of P**~~st~~st** shall not be greater than 1.0;- The value of P**~~lt~~lt** shall not be greater than 0.65;- **Tmax,** **t~~T~~**he **~~value~~ accumulated time** of d(t) **with a deviation exceeding 3.3 per cent** during a voltage change, shall not exceed **~~3.3 per cent for more than~~** 500 ms;- The **maximum** relative steady-state voltage change, d**~~c~~c**, shall not exceed 3.3 per cent;- The maximum relative voltage change d**~~max~~max**, shall not exceed 6 per cent.*Annex 18*, amend to read:Annex 183. Test Arrangements3.1. The tests for ESA in configuration "REESS charging mode coupled to the power grid" with rated current ≤ 16 A per phase and not subjected to conditional connection shall be performed according to paragraph **~~4~~6**. of IEC 61000-3-3. |
| **As Modified Text:** |
|  | **Accepted As Written** |  | **Withdrawn** |
|  | **Accepted As Modified** |  | **Rejected** |
|  | **Deferred** |  | **Other** |
| **Rejection Reason / Comments:** |
| **Proposal Deferred To:** |
| **Proposal Disposition By:** | **Date:** |
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