**Summary of proposed amendment on UNR154 02/03 series**

GRPE-87-48

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| # | Section | Paragraph | Brief  Description | Proposal | Justification | Critical level | GRPE-87-XX (02 series) | GRPE-87-YY (03 series) | EU COM remarks | reviewers |
| 1 | Main | 6.2.6. | identifier | move to right position (under the searching) | seems to be in wrong position |  | ✔ | ✔ | OK: Problem in the numbering, to be corrected | JPN\_rev1 |
| 2 |  | 6.3.2.2. | Interpolation family definition | delete criteria (d) | This criteria is related to OVC-HEV special provision. JPN proposes to delete this provision (see #27), then this criteria is no longer necessary |  | ✔ | ✔ | NOK: cannot accept the Rcdc change at this point, need to better understand the implications | JPN |
| 3 |  | 6.7.2.1. | assigned additive deterioration factor | Table 1B←Table 3b | refer correct table | ★★★ | ✔ | ✔ | OK | JPN |
| 4 |  | 8.2.4.3. | COP run-in factor | delete "electric energy consumption" | mislead to wrong process.  run-in factors of CO2/FE are independent from that of electric energy consumption | ★★★ | ✔ | ✔ | NOK: for OVC-HEV these values are not independent. There shouldn’t be cherry picking between assigned values and run-in test, it should be the one or the other.  Change to level 1B could be supported. | JPN |
| 5 |  | 8.2.4.4. | ↑ | delete paragraph | mislead to wrong process.  reference steps are insufficient and incorrect.  All necessary processes are described in  Appendix 1 | ★★★ | ✔ | ✔ | Depend on the changes agreed upon in Appendix 1. | JPN |
| 6 | Appendix 1 |  | Title | make it clear what this | current text contains variety of process. |  |  |  |  |  |
|  |  |  |  | Appendix describes | focus on the test procedure and test results derivation to make the text simplified | ★ | ✔ | ✔ | Why not clarify the title if needed, but proposal does not seem much clearer | JPN |
| 7 |  | 1.1. | application of run-in | add Table to make it clear for run-in | mislead to wrong process. |  |  |  |  |  |
|  |  |  | factor | factor application | text doesn't reflect "original intention" which allow assigned run-in factor when DPA method is adopted | ★★★ | ✔ | - | Needs to be analysed, necessity to change is unclear | JPN |
| 8 |  | 1.3. | test procedure | delete paragraphs | duplication |  |  |  |  |  |
|  |  | 2.1. |  |  |  |  | ✔ | ✔ | OK | JPN |
|  |  | 3.1. |  |  |  |  |  |  |  |  |
| 9 |  | 1.4. | refer table step to | correct right step and add necessary | mislead to wrong test results |  |  |  |  |  |
|  |  | 2.2. | determine the test | process (run-in & test lab correction |  |  |  |  | Needs to be analysed, necessity to change is unclear |  |
|  |  | 3.2.  5.3.2.1.  5.3.2.2. | results | factor) |  | ★★★ | ✔ | ✔ |  | JPN |
| 10 |  | 2.3. | reference value for | delete paragraphs | COP needs no interpolation method. |  |  |  | Needs to be analysed, necessity to change is unclear |  |
|  |  | 3.3. | COP verification | then reference value are moved to | mislead incorrect value | ★★★ | ✔ | ✔ |  | JPN |
|  |  |  |  | Appendix 2 | refer incorrect steps |  |  |  |  |
| 11 |  | 4.1. | COP test procedure | describe the correct test procedure | mislead to wrong test procedure |  |  |  |  |  |
|  |  | 4.2. | for PEV | and delete the texts which refer | COP has only one test procedure, refer |  |  |  | Needs to be analysed, necessity to change is unclear | JPN  JPN\_rev1 |
|  |  |  |  | incorrect test procedure.  Then reference value are moved to  Appendix 2 | incorrect steps | ★★★ | ✔ | ✔ |  |
|  |
| 12 |  | 5.2. | OVC-HEV CS test | move to NOVC-HEV paragraph (new 4) | same as NOVC-HEV simplified |  | ✔ | ✔ | Needs to be analysed, necessity to change is unclear | JPN |
| 13 | Appendix 2 | 3.2. | verification of EC | delete the duplication | simplified (4 sections to 3 sections) |  | ✔ | ✔ | OK | JPN |
| 14 |  | 3.2. | reference value for EC |  |  | ★★★ | ✔ | ✔ | OK | JPN |
| 15 | Appendix 3 | 1.2.1. | Extension of run-in factor | refer right parameter | mislead to wrong test process | ★★★ | ✔ | ✔ | OK | JPN |
| 16 |  | 1.6.  1.8. | refer test procedure | B6 or B8 ← B6 and B8 | mislead to wrong test procedure | ★★★ | ✔ | ✔ | OK | JPN |
| 17 |  | 1.9. | run-in factor | support GRPE-86-16 | mislead to wrong test results |  |  |  |  |  |
|  |  | 1.9.1.  1.10. | derivation |  |  | ★★★ | ✔ | ✔ | OK | JPN |
| 18 |  | 1.13. | the run-in factor for | new text was added | mislead to wrong test process |  |  |  | Needs to be checked |  |
|  |  |  | electric energy consumption |  | in-line with 02series | ★★★ | - | ✔ |  | JPN |
| 19 |  | 2. | pre-action for FE run-in factor | new text was added | mislead to wrong test process in-line with 02series | ★★★ | - | ✔ | Needs to be checked | JPN |
| 20 | Annex B3 | Table A3/3 | fuel specifications | refer right standard | ← | ★ | ✔ | - | Needs to be checked | JPN\_rev1 |
| 21 | Annex B4 | 4.1.1.2. | temperature range | describe temperature range clearly | mislead to wrong test procedure |  |  |  |  |  |
|  |  |  | during road load determination |  | text doesn't reflect "original intention" | ★★★ | ✔ | ✔ | OK | JPN |
| 22 |  | 5.1.1. | calculation of the | add another paragraph | 5.1. refers both coast down and wind tunnel |  |  |  |  |  |
|  |  |  | road load |  | method, but 5.1.1. miss to refer wind tunnel method | ★★★ | ✔ | ✔ | OK | JPN |
| 23 |  | 5.1.2. | calculation of the | refer right paragraph | mislead to wrong test results |  |  |  |  |  |
|  |  |  | road load |  | refer incorrect paragraph (should refer after correction to reference conditions) | ★★★ | ✔ | ✔ | OK – could even refer to 4.5 rather than 4.5.5.2 |  |
| 24 |  | 6.5.2.3.3. | alternative chassis dynamo setting | add right parameter | mislead to wrong test procedure missing the parameter | ★★ | ✔ | ✔ | OK | JPN\_rev1 |
| 25 | Annex B7 | Table A7/1 | post processing | delete and move to Appendix 1 as a | inconsistent with text, | ★★★ | ✔ | ✔ | NOK: it does not harm to have more details in the table, unless inconsistencies are clearly shown better keep as is. | JPN |
|  | Annex B8 | Table A8/5 | (COP related) | whole process | mislead to wrong test results |  |
| 26 | Annex B7 | Table A7/1 | post processing | refer right paragraph and/or parameter | mislead to wrong test results | ★★★ | ✔ | ✔ | OK | JPN\_rev1 |
| 27 | Annex B8 | 4.1.2. |  | delete special provision | current provision mislead the incorrect EAER |  |  |  | Needs to be analysed |  |
|  |  | 4.1.3.1. |  |  | value during Part A verification test under the |  |  |  |  |  |
|  |  | 4.2.2.  4.2.3.  4.3.1. |  |  | battery deterioration requirement | ★★★ | ✔ | ✔ (exclude Table A8/9a and |  | JPN  JPN\_rev1 |
|  |  | 4.3.2.  Table A8/8, A8/9, A8/9a, A8/9b |  |  |  |  |  | Table A8/9b) |  |  |
| 28 |  | 4.4. | applicable phase | delete and move to 4.4.4.1. | create unnecessary confusion | ★★ | ✔ | - |  | JPN |
| 29 |  | 4.4.4.1. | EAER calculation formula | for 3-phase test  CS CO2 : declared←measured | mislead to wrong test results  in-line with current practical process | ★★★ | ✔ | ✔ | OK | JPN\_rev2 |
| 30 |  | 4.4.4.2. | EAER phase | add Level 1B (3-phase WLTP) | During 02/03 SoA, 3-phase process was | ★★★ | ✔ | ✔ |  | JPN |
|  |  |  | calculation formula | calculation for phase EAER | accidentally deleted. | OK |
| 31 |  | 4.4.4.2.  4.4.6.2. | EAER phase calculation formula | add necessary process | mislead to wrong test results | ★★★ | ✔ | ✔ | Needs to be analysed | JPN |
| 32 |  | 4.5.8. | adjustment of EAER | delete (=not allow manufacture | can be used to disable GTR#22 requirement | ★★★ |  |  |  | JPN |
|  |  |  | value | declared value for both Level 1A and 1B) | (battery deterioration) | ✔ | ✔ | Needs to be analysed, not clear why a declaration concept would be harmful | JPN\_rev1 |
| 33 |  | Table A8/8 step 12 | calculation of the | delete the process | mislead to wrong test results |  |  |  |  |  |
|  |  | Table A8/10 | electric energy |  | double process | ★★★ | ✔ | ✔ |  | JPN |
|  |  | Table A8/11 | consumption |  |  |  |  |  | Needs to be analysed |  |
| 34 | Appendix 3 | Table A8 App3/1 | REESS voltage | modify the description | mislead mis-interpretation | ★ | ✔ | ✔ | Needs to be analysed | JPN\_rev1 |
|  |  |  | measurement |  | avoid the confusion |  |
| 35 | Annex C3 | 4.7.1. | pure gas | allow usage of Type1 pure gas for | improve laboratory operation efficiency without |  |  |  | Needs to be analysed |  |
|  |  |  | specifications | Type4 test as an option | scarifying the accuracy |  | ✔ | ✔ |  | JPN\_rev2 |