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# **Subjects under consideration by the Working Party on Lighting and Light-Signalling (draft PoW of GRE => WP.29 level)**

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| *GRE* |
| *Priority / Recurrent* | *Title* | *Tasks / Deliverables* | *References* | *Allocations / IWGs* | *Timeline* | *Initiator* | *Comments* |
| Priority | SimplificationStage 2 | Simplify and update the technical requirements of the new Regulations Nos. 148, 149 and 150, as well as the installation Regulations Nos. 48, 53, 74 and 86 to become future proof and technology neutral, with performance-based and objective test requirements | New simplified UN Regulations Nos. 148, 149 and 150 and amendments to UN Regulations Nos. 48, 53, 74 and 86 | GRE,IWG-SLR | 2022–2024 | IWG SLR(GRE) | Ongoing |
| Priority | InstallationNew Series of Amendments for Regulation No. 48  | Clarifications, particularly with regard to the inclusion of the ‘park condition’ and usage of certain lamps for additional signals (e.g. welcoming lights) | UN Regulation No. 48GRE-84-29, GRE-84-30, GRE-84-34 | GRE, SIG-R.48-09 | 2022–2023 | Japan, supported by various CP’s | Started |
| Priority | EMC issues(e.g. for electrical vehicles) | Further development of EMC requirements, updating existing requirements and introduction of new provisions for adaptation to technical progress | UN Regulation No. 10 | GRE,TF-EMC | 2022–2023 |  | Ongoing |
| Recurrent | Light sources  | Development of replaceable LED light sources (substitutes and replacement light sources for filament lamps) | UN Regulation Nos. 37, 99 and 128and Resolution R.E.5 | GRE |  |  | Ongoing |
| Recurrent | Adaptation to technical progress of lighting and light-signalling Regulations | e.g. road light projections | ECE/TRANS/WP.29/GRE/2021/18 | GRE |  |  | Continuous process |
| Potential priority | Global harmonization | Development of globally standardized signalling for automated/autonomous vehicles (AV’s) |  | TF-AVSR in cooperation with GRVA (FRAV) |  |  | Start of the work needs decision of GRVA and WP.29 |

# **Other recurrent, potential and future items for consideration by the Working Party on Lighting and Light-Signalling (GRE level)**

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| *GRE* |
| *Recurrent/**Potential/**Future* | *Title* | *Tasks / Deliverables* | *References* | *Allocations / IWGs* | *Timeline* | *Initiator* | *Comments* |
| Future | Sensors | New, or additional, requirements related to optical sensors (e.g. ensuring adequate illumination for – and avoid glaring of – optical sensors) | UN Regulations Nos. 48, 53, 74, 86[UN Regulations Nos. 148, 149] | t.b.c. |  |  | t.b.c. |
| Potential | Software | Awareness of GRVA activity on software updates |  | GRE |  |  | t.b.c. |
| Potential | Reference EMC | Regulation No. 10 should become the reference for EMC requirements for all GR’s. Important to try avoiding that other GR’s have, or introduce, their own specific EMC requirements in(to) other Regulations | UN Regulation No.10 | TF-EMC and GRE |  | GRE | t.b.c. |
| Potential | Avoid approval by-passing | Further amendments to Regulation No. 10 to avoid by-passing the approval of other regulations | UN Regulation No. 10 | TF-EMC and GRE |  |  | t.b.c. |
| Potential | Sustainability | Attention to environmental aspects (energy efficiency, waste reduction, etc.) |  |  GRE |  |  | t.b.c. |
| Potential | Zero emission | “Zero emission mode” light signalling (hybrid vehicles, city centers, etc.) |  | t.b.c. |  |  | t.b.c. |
| Potential | Light source regulations | Regulatory improvement by further consolidation of the light source regulations |  | t.b.c. |  |  | t.b.c. |
| Potential | Connected vehicles (CV’s) | Connected & communicating light signalling lamps |  | t.b.c. |  |  | t.b.c. |
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