



CIRCULAR 79/00 – 1 - 1

SECOND-STAGE-OF-MANUFACTURE EMISSIONS EVIDENCE WHERE THERE IS AN INCREASE IN GVM

1. INTRODUCTION

- 1.1. This Circular sets out the requirements for Second-Stage-of-Manufacture applications seeking to increase the GVM over that claimed by the base completed vehicle (first-stage) manufacturer, by using the evidence of either ADR79/.. or ADR80/ provided by the first-stage manufacturer.
- 1.2. Where a second-stage-of-manufacture vehicle is an MA or NA category vehicle and is based on an MA or NA category completed vehicle respectively, or becomes an MD1 or MD2 category vehicle, then valid carry-over ADR79/.. evidence is considered to be "Normal" evidence.
- 1.3. Where a second-stage-of-manufacture vehicle is an NB, MD3 or MD4 category of vehicle and is based on an MA or NA category completed vehicle, then acceptable carry-over ADR79/.. Evidence is considered to be non-standard evidence of compliance, and a subsequent "non-standard" Approval may be issued based on this acceptable "extension" of the ADR79/.. evidence. This extension of the ADR79/.. evidence negates the need for evidence of compliance with ADR80/.. to be provided.
- 1.4. Before seeking an extension of ADR79/.. evidence second-stage-of-manufacture applicants should satisfy themselves whether relevant ADR80/.. is available from the first-stage manufacturer. The completed first-stage vehicle Approval documentation will note where ADR80/.. evidence is available for second-stage-of-manufacture carry over.

2. APPLICATION FOR EXTENSION OF ADR79/. APPROVAL

- 2.1. ADR79/00 accepts UN ECE Regulation 83, including up to the 04 series of amendments, as an equivalent.
- 2.2. ECE Regulation 83 clause 7. EXTENSION OF APPROVAL allows a manufacturer who increases the "reference mass" of a vehicle type to extend the ECE Regulation 83 approval.
- 2.3. ECE Regulation 83 clause 7.1.1.1 limits the extension to vehicle types of a "reference mass" requiring the use of the next two highest equivalent inertias above that of the vehicle tested. Table 1 of ECE Regulation 83 limits the extension for vehicles fuelled with diesel fuel, to vehicles having a "reference mass" not more than 2840kg.
- 2.4. For the purposes of seeking a second-stage-of-manufacture Approval, the completed second-stage vehicle will be deemed to be of the same "vehicle type" as the completed first-stage vehicle Approval, apart from the differences in their "reference mass".



- 2.5. *Reference Mass* means the “unladen mass” of the vehicle increased by a uniform figure of 100kg for test according to annex 4 (of ECE Reg 83).
- 2.6. It is expected that the second-stage-of-manufacture applicant will require the technical support of the first-stage manufacturer in providing evidence for an Extension of Approval including details of the “reference mass” of the first-stage completed vehicle variants tested. This may also reveal the availability of relevant ADR80/.. evidence as per Clause 1.4 above.

3. APPLICATION FOR COMPLIANCE PLATE APPROVAL

- 3.1. An applicant for second-stage-of-manufacture approval is required to submit via the Road Vehicle Certification System, Summary-of-Evidence for ADR79/.. or ADR80/.. As applicable to the second-stage-of-manufacture vehicle category.
- 3.2. If the ADR79/.. or ADR80/.. evidence is unaffected by the second-stage-of-manufacture (eg no change in reference mass), then the normal carry-over of evidence arrangements continue.
- 3.3. A blank form RVCS submission against ADR79/.. can be made if the increased reference mass second-stage-of-manufacture vehicle remains within the MA or NA vehicle category or becomes an MD1 or MD2 vehicle category, being based on an MA or NA vehicle category first-stage vehicle CPA. These ECE Reg 83 Extension of Approval provisions, as above, apply. The Road Vehicle Descriptor must declare for all variants the associated “Reference Mass”.
- 3.4. If the second-stage-of-manufacture is for approval within the MD3, MD4 or NB vehicle category, but is based on an MA or NA vehicle category first-stage approval then a blank form RVCS submission against ADR79/00 can be made based on these Extension of Approval provisions. The applicant must also submit a blank form RVCS submission against ADR80/00, declaring non-compliance with ADR80/00, but in lieu seeking Extension of Approval against ADR79/00. The Road Vehicle Descriptor must declare for all variants the associated “Reference Mass”.

4. COMPLIANCE PLATE APPROVAL

- 4.1. Where ADR79/.. or ADR80/.. evidence for a second-stage-of-manufacture application for approval is carried-over from the first-stage completed vehicle approval, either as unchanged or based on these Extension of Approval provisions, unless otherwise affected by other evidence issues, the resultant Approval will be standard.
- 4.2. Where a second-stage-of-manufacture vehicle is required to comply with ADR80/.. but seeks to carry-over ADR79/.. evidence from the first-stage completed vehicle approval, based on this Extension of Approval provisions as above, the resultant Approval will be issued as “non-standard”.