

Draft REC Regulation

19-20 February 2013

Bern

Proposals regarding

- The REC installation
- REC CoP
- REC ISC

Installation of a REC

Insert new item 20.1 : "Installation agreement "

- Agreement of the installers by the REC manufacturer is required
- List of the agreed installers and installation centres shall be provided to the Approval Authorities
- Limited duration of the agreements (1 year ?)
- Reconduction of the agreement subject to a physical inspection by the REC manufacturer

COP regarding the installation (1)

Insert a new item 21.1 : "CoP of the REC manufacturer regarding the REC installation "

Insert a new item 21.1.1 : "inspection of the installers by the REC manufacturer "

- REC manufacturer shall physically inspect each of the agreed installation centre
- An inspection report shall be laid down and made it known by the Approval Authority at its request

COP regarding the installation (2)

Insert a new item 21.1.2 :

- REC manufacturer shall base its periodic agreement on at least the following items
- Fulfilment of the installation instructions on all types of retrofitted engines and vehicles
- Conformity of the components sourcing
- Traceability

Insert a new item 21.1.3 :

- The REC manufacturer shall invite its Approval Authority to perform a physical inspection of one of its agreed installation centre per year (choice left to the TA)

This inspection shall include the demonstration by the rec manufacturer of the correct installation of the device on one vehicle

CoP regarding the REC system

Insert a new item 21.2 "CoP of the REC manufacturer regarding the REC system "

- The Approval Authorities that granted the original approval may verify at any time the conformity of the REC system to the requirements of this Regulation [see examples in R44 item 12.4]
- In the case the authority considers further inspection is needed to assess the conformity, he may require the manufacturer to perform tests according to Annexes 5, 6, or 7 of this Regulation

CoP for level D REC (1)

Add a new section 21.1 : " specific to level D Retrofit (EURO VI level) «

- Efficiency tests according to this Regulation shall be part of the CoP of the REC system
- At the request of the manufacturer a PEMS test may be preferred as an alternative (in case of gaseous emissions only)

This test (REC performance control) shall include a back to back test before and after REC installation on the same testing route ,the same driver and under the same conditions. Details of type test procedure shall be agreed by the TA and be available upon request

CoP for level D REC (2)

- R49/R96 CoP statistic procedure shall apply
- Sampling shall include randomly all the engines types concerned by the REC
- Testing shall apply per REC family at least every two years and until End of Production

In-service conformity

- Applies only for REC of type D (retrofit to EURO VI level)
- The REC manufacturer is responsible for In-service conformity after retrofit
- Rev.6 of R49 procedures shall apply (PEMS test procedure, sampling rules, etc...)
- Efficiency conformity shall be part of the assessment

Questions ?

Thank you for your attention.