



# Economic and Social Council

Distr.: General  
22 March 2010

Original: English

## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

### Working Party on Pollution and Energy

#### Fifty-ninth session

Geneva, 12-15 January 2010

## Report of the Working Party on Pollution and Energy on its fifty-ninth session (12-15 January 2010)

### Contents

	<i>Paragraphs</i>	<i>Page</i>
I. Attendance .....	1	3
II. Adoption of the agenda (agenda item 1).....	2-3	3
III. Heavy duty vehicle engines (agenda item 2) .....	4-13	3
A. Off-Cycle Emissions (OCE) (agenda item 2(a)).....	4	3
B. Worldwide harmonized Heavy Duty Certification (WHDC) procedure (agenda item 2(b)).....	5-7	4
C. Worldwide harmonized Heavy duty On-Board Diagnostics (WWH- OBD) (agenda item 2(c)).....	8-9	4
D. Alignment of Regulation No. 49 with Regulation No. 83 (Euro 5 levels) (agenda item 2(d)).....	10-11	4
E. Heavy duty hybrid electric vehicles (agenda item 2(e)).....	12-13	5
IV. Particle Measurement Programme (PMP) (agenda item 3) .....	14-16	5
V. Worldwide harmonized Motorcycle emission Test Cycle (WMTC) (agenda item 4).....	17-19	6
VI. Non-Road Mobile Machinery (NRMM) (agenda item 5).....	20	6

VII.	Amendments to UNECE Regulations (agenda item 6).....	21-35	7
A.	Worldwide harmonized Light vehicle Test Procedures (WLTP) (agenda item 6(a)).....	21-25	7
B.	Gaseous-Fuelled Vehicles (GFV) (agenda item 6(b)).....	26-27	8
C.	Regulation No. 83 (Emissions of M <sub>1</sub> and N <sub>1</sub> categories of vehicles) (agenda item 6(c)).....	28-32	8
D.	Regulation No. 101 (CO <sub>2</sub> emissions/fuel consumption) (agenda item 6(d)).....	33	9
E.	Regulation No. 115 (Specific LPG and CNG retrofit systems) (agenda item 6(e)).....	34	9
F.	Regulation No. 120 (Internal combustion engines for tractors) (agenda item 6(f)).....	35	9
VIII.	Hydrogen and Fuel Cell Vehicles – Subgroup Environment (HFCV-SGE) (agenda item 7).....	36-37	9
IX.	Environmentally Friendly Vehicles (EFV) (agenda item 8) .....	38-40	10
X.	Fuel Quality (FQ) (agenda item 9) .....	41-43	10
XI.	Exchange of information on national and international requirements on emissions (agenda item 10) .....	44	11
XII.	Other business (agenda item 11).....	45-49	11
A.	WP.29 Round Table on Climate Change and Transport (agenda item 11(a)).....	45-46	11
B.	Retrofit emission control devices (agenda item 11(b)).....	47-49	11
XIII.	Provisional agenda for the next session .....	50-51	12
A.	Informal meetings in conjunction with the next GRPE session proper .....	50	12
B.	Provisional agenda for the sixtieth session of GRPE proper.....	51	13
Annexes			
I.	List of informal documents (GRPE-59-...) distributed without an official symbol during the session .....		15
II.	Informal meetings held in conjunction with the fifty-ninth session of GRPE .....		18

## I. Attendance

1. The Working Party on Pollution and Energy (GRPE) held its fifty-ninth session from 12 to 15 January 2010, under the chairmanship of Mr. B. Gauvin (France). Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of WP.29 (TRANS/WP.29/690, as amended): Austria; Belgium; Canada; China; Czech Republic; France; Germany; Hungary; India; Italy; Japan; Netherlands; Norway; Poland; Republic of Korea; Russian Federation; Serbia; South Africa; Spain; Sweden; Switzerland; United Kingdom of Great Britain and Northern Ireland; United States of America. Experts from the European Commission (EC) also participated. The International Energy Agency (IEA) was also represented. Experts from the following non-governmental organizations took part in the session: Association for Emission Control by Catalyst (AECC); European Association of Automobile Suppliers (CLEPA); Foundation for the Automobile and Society (FIA Foundation); International Association for Natural Gas Vehicles (IANGV); International Motorcycle Manufacturers Association (IMMA); International Organization for Standardization (ISO); International Organization of Motor Vehicle Manufacturers (OICA) and International Road Transport Union (IRU). Upon the special invitation of the Chair, the experts from: European Association of Internal Combustion Engine Manufacturers (EUROMOT); European Liquefied Petroleum Gas Association (AEGPL); International Petroleum Industry Environment Conservation Association (IPIECA); Technical Committee of Petroleum Additive Manufacturers in Europe (ATC); The Oil Companies European Organization for Environment, Health and Safety (CONCAWE) and Transportation Technical Supervision (TDT).

## II. Adoption of the agenda (agenda item 1)

*Documentation:* ECE/TRANS/WP.29/GRPE/2010/1 and Add.1, Informal document No. GRPE-59-01-Rev.1

2. GRPE noted GRPE-59-01-Rev-1 regarding the organization of the GRPE working group meetings. GRPE adopted the agenda ECE/TRANS/WP.29/GRPE/2010/1, including Add.1, and added new items:

- 2(e) Heavy duty hybrid electric vehicles,
- 6(f) Regulation No. 120 (Internal combustion engines for tractors),
- 11(a) WP.29 Round Table on Climate Change and Transport,
- 11(b) Retrofit emission control devices.

3. The informal documents distributed during the session are listed in Annex I to this report.

## III. Heavy duty vehicle engines (agenda item 2)

### A. Off-Cycle Emissions (OCE) (Agenda item 2(a))

4. GRPE noted that the draft gtr on Off-Cycle Emissions (OCE), submitted to WP.29 and AC.3, had been established into the Global Registry on 24 June 2009 as global technical regulation (gtr) No. 10. GRPE agreed to remove this item from the agenda.

**B. Worldwide harmonized Heavy Duty Certification (WHDC) procedure (agenda item 2(b))**

*Documentation:* ECE/TRANS/WP.29/2009/114, ECE/TRANS/WP.29/2009/121, ECE/TRANS/WP.29/2009/122, ECE/TRANS/WP.29/2010/48, ECE/TRANS/WP.29/2010/49

5. GRPE noted that Amendment 1 to gtr No. 4 on WHDC had been established into the Global Registry on 12 November 2009 (ECE/TRANS/WP.29/2009/121 and report ECE/TRANS/WP.29/2009/122). GRPE also noted that WP.29, at its November 2009 session, had adopted ECE/TRANS/WP.29/2009/114 to align Regulation No. 49 with Amendment 1 to gtr No. 4 (see report ECE/TRANS/WP.29/1079, paras. 93 and 94).

6. The expert from the United States of America informed GRPE of the submission of a proposal (ECE/TRANS/WP.29/2010/49) to the Executive Committee (AC.3) of the 1998 Agreement to eliminate the soak period and cold start weighting options remaining in gtr No. 4. The Secretary of the WHDC informal group reported that, on behalf of the informal group on WHDC, he had prepared ECE/TRANS/WP.29/2010/48 proposing to correct in ECE/TRANS/WP.29/2009/121 editorial errors and also reflecting the proposal by the United States of America regarding the elimination of the remaining options.

7. GRPE agreed on ECE/TRANS/WP.29/2010/48 and endorsed its submission to AC.3 for consideration and adoption during the June 2010 session. The GRPE Chairman acknowledged the excellent work done by the informal group on WHDC and its Secretary.

**C. Worldwide harmonized Heavy duty On-Board Diagnostics (WWH-OBD) (agenda item 2(c))**

*Documentation:* ECE/TRANS/WP.29/2009/113, ECE/TRANS/WP.29/2009/115

8. GRPE noted the adoption by WP.29, at its November 2009 session, of Corrigendum 1 to gtr No. 5 on WWH-OBD as well as the alignment of Regulation No. 49 with regard to the in-use performance requirements for OBD on the basis of ECE/TRANS/WP.29/2009/113 and ECE/TRANS/WP.29/2009/115.

9. The expert from the EC informed GRPE of the on-going work of its organization on the implementation of the new Euro VI emission requirements for heavy duty vehicle engines introduced by EU Regulation 595/2009. He announced his intention to prepare concrete proposals to align the provisions of gtr No. 5 as well as those of Regulation No. 49, for consideration at the next GRPE session in June 2010. GRPE agreed to keep this item on its agenda.

**D. Alignment of Regulation No. 49 with Regulation No. 83 (Euro 5 levels) (agenda item 2(d))**

*Documentation:* ECE/TRANS/WP.29/2009/75, ECE/TRANS/WP.29/2010/51, ECE/TRANS/WP.29/2010/54, ECE/TRANS/WP.29/GRPE/2010/5, Informal document No. GRPE-59-21

10. GRPE considered and agreed on ECE/TRANS/WP.29/2010/51 tabled by the expert from EC to align Regulation No. 49 with the amendments proposed for gtr No. 4 in ECE/TRANS/WP.29/2010/48 (see paras. 6 and 7 above). The secretariat was requested to submit ECE/TRANS/WP.29/2010/51 to WP.29 and AC.1, for consideration at their

March 2010 sessions as Corrigendum 1 to Supplement 2 to the 05 series of amendments to Regulation No. 49.

11. GRPE agreed to consider the alignment of Regulation No. 49 together with agenda item 6(c) (see paras. 28-32 below) concerning the introduction of the Euro 5 emission requirements into Regulation No. 83. Upon the request of WP.29 (see report ECE/TRANS/WP.29/1079, para. 63), GRPE examined GRPE-59-21 amending ECE/TRANS/WP.29/2010/54 and superseding both ECE/TRANS/WP.29/2009/75 and ECE/TRANS/WP.29/GRPE/2010/5. GRPE adopted GRPE-59-21 aligning the scope of Regulation No. 49 with that of Regulation No. 83 following the insertion of the Euro 5 emission requirements. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as a revision to ECE/TRANS/WP.29/2010/54.

## **E. Heavy duty hybrid electric vehicles (agenda item 2(e))**

*Documentation:* Informal document No. GRPE-59-02

12. The expert from OICA introduced GRPE-59-02 proposing to develop, under the 1998 Agreement, a new test procedure for the determination of the levels of pollutant emissions from heavy duty hybrid electric vehicles (HD-HEV). GRPE welcomed that initiative and noted a number of comments. The experts from EC and the United Kingdom suggested including also the measurement of CO<sub>2</sub> emissions into the new test procedure. The expert from the United Kingdom expressed an interest in extending the proposed approach for the "hardware in the loop simulation" to cover the assessment of the CO<sub>2</sub> emissions of heavy duty vehicles also with conventional powertrains.

13. GRPE agreed to set up an informal group to develop harmonized test procedures for the emissions of pollutants and CO<sub>2</sub> from HD-HEV, subject to the consent of WP.29 and AC.3 at their March 2010 sessions. The expert from OICA volunteered to provide the secretariat servicing of that informal group. The Chairman expressed his intention to inform WP.29 about this decision and invited the experts from EC, Japan and the United States of America to clarify, on that occasion, their position and to indicate, if possible, their technical sponsorship. He added that, after the endorsement of AC.3, the new informal group could start its work. The expert from EC indicated his willingness to sponsor this activity.

## **IV. Particle Measurement Programme (PMP) (agenda item 3)**

*Documentation:* Informal documents Nos. GRPE-59-03, GRPE-59-04, GRPE-59-05, GRPE-59-12 and GRPE-59-27

14. The Chairman of the PMP informal group reported on the progress made on the heavy duty validation exercise and Round Robin tests (GRPE-59-27). He indicated that the heavy duty inter-laboratory correlation exercise had been completed in October 2009 and presented the draft final report (GRPE-59-12). He expected the heavy duty Round Robin tests to be completed by mid 2011. He introduced GRPE-59-03 proposing to insert into Regulation No. 49 the particle number measurement method. In this respect, he also presented GRPE-59-04 to clarify and update Regulation No. 83. He also informed GRPE of the outcome of the PMP meeting held on 11 January 2010. He announced his intention to update GRPE-59-12, GRPE-59-03 and GRPE-59-04 and to submit them to GRPE as official documents for consideration at the June 2010 session.

15. The expert from OICA presented an executive summary, recommendations and conclusions of the light duty vehicle particle numbering Round Robin tests (GRPE-59-05). GRPE noted some comments. The PMP Chairman noted that the OICA conclusions regarding minimizing tunnel background contributions and stabilizing diesel particulate filters were consistent with the conclusions from the PMP validation exercises and he offered to work with OICA to incorporate any additional recommendations into Regulation No. 83. OICA responded that amendments to the Regulation were not necessary at this stage. The PMP Chairman invited all experts to send him their written comments on the draft heavy duty validation exercise report and on the amendments to Regulations Nos. 49 and 83 by the end of February 2010.

16. GRPE acknowledged the good progress made by the informal group and agreed to resume consideration of this subject at its next session in June 2010 on the basis of official documents.

## **V. Worldwide harmonized Motorcycle Emission Test Cycle (WMTC) (agenda item 4)**

*Documentation:* ECE/TRANS/WP.29/2009/132, ECE/TRANS/WP.29/2009/133,  
ECE/TRANS/WP.29/GRPE/2010/2, Informal document  
No. GRPE-59-17

17. GRPE noted that AC.3 had endorsed the principles of the proposed Amendment 2 to gtr No. 2 (ECE/TRANS/WP.29/2009/132) to insert various sets of harmonized limit values for the emissions of pollutants from motorcycle engines. GRPE also noted that the insertion into the gtr of the new limit values would take about two years.

18. The expert from IMMA introduced ECE/TRANS/WP.29/GRPE/2010/2 proposing to maximize the efforts of harmonization in gtr No. 2 and to insert in the meantime the Euro 3 emission levels. The expert from EC welcomed the proposal by IMMA as a short-term solution. Referring to GRPE-59-17, he announced the intention of his organization to present in April 2010 the future Euro 4 and Euro 5 emission levels. He volunteered to submit, as a long-term solution, a concrete proposal to GRPE or WP.29 at their forthcoming sessions, once the new emission levels were adopted within the European Union. The Chairman of the informal group on WMTC underlined the importance to insert limit values into gtr No. 2 and suggested going forward with the IMMA proposal. He proposed to submit it to WP.29 and AC.3 as a first step. A large number of experts supported that suggestion. The experts from Canada, Japan and the United States of America raised a study reservation.

19. Following the discussion, GRPE agreed on the importance of inserting performance requirements into gtrs and to have a final review of ECE/TRANS/WP.29/GRPE/2010/2 at its next session in June 2010. The Chairman expressed his intention to inform WP.29 and AC.3 in March 2010 of the status and invited all experts to clarify their position by June 2010 at latest.

## **VI. Non-Road Mobile Machinery (NRMM) (agenda item 5)**

*Documentation:* ECE/TRANS/WP.29/2009/118, ECE/TRANS/WP.29/2009/119,  
ECE/TRANS/WP.29/2009/120

20. GRPE noted that gtr No. 11 on the exhaust emissions of NRMM had been established into the Global Registry on 12 November 2009 (ECE/TRANS/WP.29/2009/118, its report ECE/TRANS/WP.29/2009/119 and guidance

document ECE/TRANS/WP.29/2009/120). The Secretary of the informal group on NRMM informed GRPE that he had received a number of editorial corrections. He volunteered to prepare a concrete draft Corrigendum to the gtr, for consideration by GRPE at its next session. GRPE welcomed the intention by the expert from EC to provide, at the June 2010 session of GRPE, full information on how gtr No. 11 would be transposed into the European Union legislation.

## **VII. Amendments to UNECE Regulations (agenda item 6)**

### **A. Worldwide harmonized Light vehicle Test Procedures (WLTP) (agenda item 6(a))**

*Documentation:* Informal documents Nos. GRPE-59-14, GRPE-59-15 and GRPE-59-24

21. Recalling the decision of WP.29 and AC.3 at their June 2009 session (see report ECE/TRANS/WP.29/1077, para. 105), the expert from EC introduced GRPE-59-14 proposing to develop, in parallel with the ongoing work of Phase I of the gtr on WLTP, a test procedure for the determination of vehicle emissions due to the use of mobile air conditioning (MAC). The expert from OICA fully supported that initiative by EC (GRPE-59-15) and expressed his preference to develop such a test procedure under the 1998 Agreement.

22. GRPE agreed to set up a new informal group on MAC, under the chairmanship of Mr. Rijnders (Netherlands) on behalf of EC. The expert from EC volunteered to prepare, for consideration at the next GRPE session, the draft terms of reference and rules of procedures of the new informal group on MAC. The GRPE Chairman recalled that WP.29 had given in this respect its consent already at its June 2009 session and added that the group could start working immediately. He invited all experts, in particular those from Contracting Parties other than EU member states, to participate in the work on MAC.

23. The Secretary of the informal group on WLTP reported on the good progress made by the group at its fourth meeting, held on 13 January 2010 (GRPE-59-24). He informed GRPE of the outcome of the first and second meeting of the WLTP subgroup on the Development of the Harmonized driving Cycle (DHC), held in Brussels on 7-9 September 2009 and in Geneva on 13 January 2010 under the co-chairmanship of Japan and the United Kingdom. Detailed information is available on the GRPE website.

24. The Secretary of the informal group on WLTP also announced the intention of the subgroup on the Development of the Test Procedure (DTP) to hold a first meeting in Ann Arbor on 13-15 April 2010, under the co-chairmanship of India and the United States of America. The expert from the United States of America announced that he would prepare a concrete agenda and invited all experts to send him (olechiw.michael@epa.gov) their proposals concerning work items and priorities. He also offered to organize, in conjunction with the first meeting of the DTP subgroup, a further meeting of the subgroup on DHC, if necessary.

25. The GRPE Chairman recommended that the WLTP subgroups on DHC and DTP should also meet prior to the next session of GRPE (see para. 50 below). He volunteered to inform WP.29 and AC.3, at their March 2010 session, of the progress made in the development of the gtr.

## **B. Gaseous-Fuelled Vehicles (GFV) (agenda item 6(b))**

26. The Chairman of the informal group on Gaseous-Fuelled Vehicles (GFV) reported on the work progress made by the GFV group at its meeting, held in Brussels on 14 October 2009. He explained that the informal meeting, initially scheduled to be held in Geneva prior to the GRPE session proper, had been postponed due to constraints with the expert meeting on the Euro 5 emission requirements.

27. Recognizing that the mandate of the informal group on GFV was limited to end of 2009, GRPE recommended extending the mandate until end of 2011. GRPE noted that the next meeting of the GFV working group would take place in Brussels at the end of April 2010. GRPE agreed that the GFV group should also meet prior to the next session of GRPE (para. 50 below).

## **C. Regulation No. 83 (Emissions of M1 and N1 categories of vehicles) (agenda item 6(c))**

*Documentation:* ECE/TRANS/WP.29/2009/57 and Corr.1,  
ECE/TRANS/WP.29/2009/134, ECE/TRANS/WP.29/2010/53,  
ECE/TRANS/WP.29/GRPE/2009/8, Informal documents Nos.  
GRPE-57-02, GRPE-59-06, GRPE-59-11-Rev.1, GRPE-59-13,  
GRPE-59-16, GRPE-59-18, GRPE-59-22 and GRPE-59-26

28. The expert from the EC informed GRPE of the purpose of the expert meeting on Euro 5 requirements, which was held on 12 January 2010. The expert from the Netherlands, chairing the expert group on behalf of EC, reported on the outcome of the expert meeting during which all above mentioned documents had been considered in detail. Referring to the draft amendments to Regulation No. 83 (ECE/TRANS/WP.29/2009/57 and Corr.1, ECE/TRANS/WP.29/2009/134, ECE/TRANS/WP.29/2010/53), he introduced GRPE-59-22 proposing to update and clarify the amendments in ECE/TRANS/WP.29/2010/53. The expert from OICA raised concerns about the intention to restrict the transposition of the new emission requirements to the implementation of the final stage of Euro 5 emission levels. He introduced GRPE-59-26 proposing a number of amendments to the above-mentioned documents.

29. Following the discussion, GRPE adopted the amendments proposed in GRPE-59-22 and requested the secretariat to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as document ECE/TRANS/WP.29/2010/56 superseding ECE/TRANS/WP.29/2010/53.

30. The expert from OICA withdrew ECE/TRANS/WP.29/GRPE/2009/8. He introduced GRPE-59-06 proposing to update in Regulation No. 83 the specifications for the proportional speed fan which might be used during the testing of vehicles on the chassis dynamometer. GRPE noted a study reservation by the expert from EC. The GRPE Chairman invited the experts from EC and OICA to jointly prepare an updated proposal for consideration at the next GRPE session and to submit it in due time to the secretariat. The secretariat was requested to prepare, in the absence of such a joint proposal, GRPE-59-06 as an official document.

31. GRPE noted that GRPE-57-02, tabled by the Russian Federation at a previous meeting, had not been taken into consideration by the expert group on Euro 5 requirements due to the fact that this proposal referred to Euro 4 emission levels. GRPE agreed to resume consideration of this proposal at its next session on the basis of an official document.



32. Referring to GRPE-59-13, the expert from EC proposed to align the requirements of Regulation No. 103 with those of Regulation No. 83 in view of transposing the Euro 5 requirements. GRPE agreed to have a detailed consideration of this proposal at its next session and requested the secretariat to distribute it as an official document.

**D. Regulation No. 101 (CO<sub>2</sub> emissions/fuel consumption) (agenda item 6(d))**

*Documentation:* ECE/TRANS/WP.29/2009/76 and Corr.1,  
ECE/TRANS/WP.29/2009/116, Informal document No. GRPE-59-23

33. GRPE noted that ECE/TRANS/WP.29/2009/116 had been adopted by WP.29 in November 2009 as Supplement 9 to Regulation No. 101. Regarding the alignment of Regulation No. 101 with the Euro 5 requirements in Regulation No. 83, GRPE considered GRPE-59-23 proposing an amendment to ECE/TRANS/WP.29/2009/76 and Corr.1. GRPE adopted the proposal and requested to submit it to WP.29 and AC.1, for consideration at the March 2010 sessions, as ECE/TRANS/WP.29/2009/76/Corr.2.

**E. Regulation No. 115 (Specific LPG and CNG retrofit systems) (agenda item 6(e))**

*Documentation:* ECE/TRANS/WP.29/GRPE/2009/117

34. GRPE noted that ECE/TRANS/WP.29/2009/117 had been adopted by WP.29 in November 2009 as Revision 1 including Supplement 4 to Regulation No. 115. GRPE agreed to remove this item from its agenda.

**F. Regulation No. 120 (Internal combustion engines for tractors) (agenda item 6(f))**

*Documentation:* Informal document No. GRPE-59-10

35. The expert from Italy announced his intention to submit, for the next session of GRPE, a proposal aimed at aligning the provisions of Regulation No. 120 with the more stringent exhaust emission requirements recently adopted under Regulation No. 96 (GRPE-59-10). GRPE welcomed that initiative and agreed to resume consideration of this subject at its next session on the basis of a concrete proposal by Italy.

**VIII. Hydrogen and Fuel Cell Vehicles – Subgroup Environment (HFCV-SGE) (agenda item 7)**

36. The HFCV Project Manager informed GRPE that the subgroup on safety (HFCV-SGS) had made good progress during its meeting in Ottawa on 21-23 September 2009. He announced the intention of the subgroup to meet again in Geneva, from 18 to 22 January 2010. With regard to the current status of the work achieved by the subgroup environment (HFCV-SGE), the Secretary of the SGE subgroup reported on the results of subgroup's meeting, held prior to the GRPE session proper (see Annex II to this report). He informed GRPE of the time constraints in finalizing the technical reports, due to the lack of expertise in the three areas of vehicle recyclability, disposal of hazardous material and noise emissions.

37. GRPE recommended going forward and considering at its next session a first drafting of the summary report. GRPE noted the intention of the SGE subgroup to possibly meet again in Brussels, on 25 and 26 March 2010. GRPE agreed that the HFCV-SGE informal group should also meet prior to the next session of GRPE in June 2010 (para. 50 below).

## **IX. Environmentally Friendly Vehicles (EFV) (agenda item 8)**

*Documentation:* Informal documents Nos. GRPE-59-07 and GRPE-59-19

38. The expert from India, chairing the EFV informal group, presented the conclusion paper (GRPE-59-07) of the fourth International Conference on EFV, held in New Delhi (India) on 23-24 November 2009. He underlined the complexity of the subject and added that his government was committed to start working in some concrete areas. He informed GRPE of the progress made during the fifth meeting of the informal group on EFV, which was held in New Delhi on 25 November 2009 in conjunction with the fourth EFV Conference (GRPE-59-19). He announced the sixth meeting of the informal group on EFV would be held immediately after the GRPE session proper (see Annex II to this report).

39. The expert from Germany congratulated the experts from India for the good organization and outcome of the fourth EFV Conference held in New Delhi. He added that the United States of America had volunteered to organize the fifth EFV Conference at the beginning of 2012. He encouraged the EFV informal group to continue working for good cooperation between the EFV conferences and the activities of the World Forum.

40. GRPE acknowledged the good work done by India and the EFV informal group. The GRPE Chairman suggested that the informal group should also meet in conjunction with the next GRPE session in June 2010 (para. 50 below).

## **X. Fuel quality (FQ) (agenda item 9)**

*Documentation:* ECE/TRANS/WP.29/GRPE/2010/3,  
ECE/TRANS/WP.29/GRPE/2010/4,  
Informal document No. GRPE-59-25

41. The Secretary of the informal group on FQ reported on the progress made by the group at its fifth meeting, held on 12 January 2010 (GRPE-59-25). Referring to ECE/TRANS/WP.29/GRPE/2010/3, the expert from IPIECA informed GRPE of the outcome of the joint IPIECA/OICA meeting held in Paris on 28-29 September 2009. He underlined that some parameters in Annex 1 were still in square brackets or remained to be defined. GRPE welcomed the intention of IPIECA and OICA to hold a further joint meeting in Washington to resolve the remaining parameters. GRPE agreed to resume consideration of the fuel quality parameters at its next session in June 2010 on the basis of an updated proposal.

42. The expert from IPIECA proposed to review the terms of reference of the FQ informal group in the context of its adequacy for the current task and future work (ECE/TRANS/WP.29/GRPE/2010/4). He stated that, according to the view of its organization, the mandate should be limited to fuel quality parameters that could degrade emission control devices (i.e. completion of the first step). He added that IPIECA would not support the second step to specify further fuel quality parameters affecting the tailpipe emissions of vehicles. The experts from Canada and the United States of America shared the concerns by IPIECA.

43. The GRPE Chairman indicated that the mandate of the informal group on FQ would end by November 2010. He encouraged the informal group to conclude on the first step. He added that, in view of the second step, the mandate and the terms of reference of the informal group would have to be reviewed by GRPE and WP.29. GRPE recommended that the informal group on FQ should also meet in conjunction with the next GRPE session in June 2010 (see para. 50 below).

## **XI. Exchange of information on national and international requirements on emissions (agenda item 10)**

*Documentation:* Informal document No. GRPE-59-08

44. GRPE welcomed the information tabled by the expert from Japan about the results of a number of meetings organized by his government to discuss measurement and evaluation methods for exhaust emissions and fuel economy of plug-in hybrid electric vehicles (GRPE-59-08).

## **XII. Other business (agenda item 11)**

### **A. WP.29 Round Table on Climate Change and Transport (agenda item 11(a))**

*Documentation:* ECE/TRANS/WP.29/2010/45, ECE/TRANS/WP.29/2010/46, ECE/TRANS/WP.29/2010/47, Informal document No. GRPE-59-28

45. The secretariat informed GRPE of the decision of WP.29 to organize a Round Table on "Climate Change and Transport", scheduled to be held in Geneva on 24 June 2010. He reported on the outcome of the brainstorming session (see report ECE/TRANS/WP.29/1079, paras. 78-80) and indicated that additional information was available on the WP.29 website regarding a literature review (ECE/TRANS/WP.29/2010/46), "who does what" (ECE/TRANS/WP.29/2010/47) and UNECE activities on the reduction of emissions of gaseous pollutants and greenhouse gases in the transport sector (ECE/TRANS/WP.29/2010/45). He announced that the preliminary programme for the WP.29 Round Table would be made available as informal document No. WP.29-150-03. The Chairman invited all GRPE experts to participate in that important event.

46. GRPE welcomed the "30-by-30" resolution of IRU on a voluntary commitment of the road transport industry to reduce CO<sub>2</sub> emissions by 30 per cent by 2030 (GRPE-59-28).

### **B. Retrofit emission control devices (agenda item 11(b))**

*Documentation:* Informal documents Nos. GRPE-59-09 and GRPE-59-20

47. The expert from EUROMOT introduced GRPE-59-09 proposing to develop under the 1958 Agreement a new Regulation on retrofit aftertreatment systems for engines used in NRMM and agricultural tractors with respect to the emissions of pollutants. GRPE welcomed in principle the proposal, but noted a study reservation by Italy regarding safety risks of such systems. The expert from EUROMOT volunteered to prepare for the next session of GRPE a more detailed document on the scope of the proposal.

48. The expert from the Netherlands presented a similar proposal to set up a test procedure for retrofit particulate traps (GRPE-59-20) of heavy duty vehicles. GRPE noted a

number of comments supporting the initiative, but also the need to consider different emissions levels.

49. Following the discussion, GRPE agreed to establish, under the chairmanship of Mr. Barbé from the Netherlands, an informal group on Retrofit Emission Control devices (REC) dealing with both aftertreatment systems and diesel particulate filters intended to be fitted as retrofit systems on heavy duty vehicles and NRMM. In this respect, the GRPE Chairman expressed his intention to seek the consent of WP.29 at its March 2010 session. He invited the experts from the Netherlands, EUROMOT and OICA to prepare for the next GRPE session a proposal for the terms of reference and rules of procedures of the informal group. The expert from AECC volunteered to provide the secretariat servicing of the new informal group.

### **XIII. Provisional agenda for the next session**

50. For its sixtieth session to be held in Geneva, Palais des Nations, GRPE decided to start on Monday, 7 June 2010, at 10.00 a.m. until Friday, 11 June 2010, 5.30 p.m., subject to confirmation by the secretariat (see GRPE-60-01). For that purpose, the following time schedule and provisional agenda was suggested:

#### **A. Informal meetings in conjunction with the next GRPE session proper**

1. Informal meeting of the GRPE working group on Retrofit Emission Control devices (REC)

To be held on Monday morning, 7 June 2010, from 10.00 a.m. till 12.30 p.m. The agenda of the meeting will be prepared by the REC secretariat and distributed to the members of the group prior to the meeting. This meeting will be held without interpretation.

2. Informal meeting of the GRPE working group on Hydrogen and Fuel Cell Vehicles – Subgroup Environment (HFCV-SGE)

To be held on Monday afternoon, 7 June 2010, from 2.30 p.m. till 4.00 p.m. The agenda of the meeting will be prepared by the HFCV-SGE secretariat and distributed to the members of the group prior to the meeting. This meeting will be held without interpretation.

3. Informal meeting of the GRPE working group on Heavy Duty Hybrid Electric Vehicles (HD-HEV)

To be held on Monday afternoon, 7 June 2010, from 4.00 p.m. till 5.30 p.m. The agenda of the meeting will be prepared by the HD-HEV secretariat and distributed to the members of the group prior to the meeting. This meeting will be held without interpretation.

4. Informal meeting of the GRPE working group on Gaseous-Fuelled Vehicles (GFV)

To be held on Tuesday morning, 8 June 2010, from 9.30 a.m. till 12.30 p.m. The agenda of the meeting will be prepared by the GFV secretariat and distributed to the members of the group prior to the meeting. This meeting will be held without interpretation.

5. Informal meeting of the GRPE working group on Mobile Air Conditioning (MAC)
 

To be held on Tuesday afternoon, 8 June 2010, from 2.30 p.m. till 5.30 p.m. The agenda of the meeting will be prepared by the MAC secretariat and distributed to the members of the group prior to the meeting.
6. Informal meeting of the GRPE/WLTP subgroup on the Development of the Harmonized driving Cycle (WLTP-DHC)
 

To be held on Wednesday morning, 9 June 2010, from 9.30 a.m. till 12.30 p.m. The agenda of the meeting will be prepared by the WLTP-DHC secretariat and distributed to the members of the group prior to the meeting.
7. Informal meeting of the GRPE/WLTP subgroup on the Development of Test Procedures (WLTP-DTP)
 

To be held on Wednesday afternoon, 9 June 2010, from 2.30 p.m. till 4.00 p.m. The agenda of the meeting will be prepared by the WLTP-DTP secretariat and distributed to the members of the group prior to the meeting.
8. Informal meeting of the GRPE working group on Fuel Quality (FQ)
 

To be held on Wednesday afternoon, 9 June 2010, from 4.00 p.m. till 5.30 p.m. The agenda of the meeting will be prepared by the FQ secretariat and distributed to the members of the group prior to the meeting.
9. Informal meeting of the GRPE working group on Environmentally Friendly Vehicles (EFV)
 

To be held on Friday afternoon, 11 June 2010, from 2.30 p.m. till 5.30 p.m. The agenda of the meeting will be prepared by the EFV secretariat and distributed to the members of the group prior to the meeting. This meeting will be held without interpretation.

## **B. Provisional agenda for the sixtieth session of GRPE proper**

51. To be held on Thursday, 10 June 2010, from 9.30 a.m. to Friday, 11 June 2010, until 12.30 p.m.:
  1. Heavy duty vehicle engines:
    - (a) Worldwide harmonized Heavy Duty Certification procedure (WHDC);
    - (b) Worldwide harmonized Heavy duty On-Board Diagnostic systems (WWH-OBD);
    - (c) Heavy Duty Hybrid Electric Vehicles (HD-HEV);
    - (d) Retrofit Emission Control devices (REC);
    - (e) Regulations No. 49 (Emissions of C.I. and P.I. (NG and LPG) engines).
  2. Particle Measurement Programme (PMP).
  3. Worldwide harmonized Motorcycle emission Test Cycle (WMTC).
  4. Tractors and Non-Road Mobile Machinery (NRMM):
    - (a) Regulation No. 120 (Internal combustion engines for tractors).

5. Light vehicles engines:
  - (a) Worldwide harmonized Light vehicles Test Procedures (WLTP);
  - (b) Gaseous-Fuelled Vehicles (GFV);
  - (c) Regulation No. 83 (Emissions of M<sub>1</sub> and N<sub>1</sub> categories of vehicles);
  - (d) Regulation No. 103 (Replacement catalytic converters).
6. Hydrogen and Fuel Cell Vehicles – Sub Group Environment (HFCV-SGE).
7. Environmentally Friendly Vehicles (EFV).
8. Fuel Quality (FQ).
9. Exchange of information on national and international requirements on emissions.
10. Election of officers.
11. Other business.

## Annexes

### Annex I

#### List of informal documents (GRPE-59-...) distributed without an official symbol during the session

<i>No.</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow-up</i>
01- Rev.1	Secretariat	-	E	Informal group meetings scheduled to be held in conjunction with the 59th GRPE session proper (including the room reservations)	(a)
02	OICA	2(e)	E	Proposal for an emissions test procedure for heavy-duty hybrid electric vehicles (HEV)	(a)
03	United Kingdom	3	E	Insertion into Regulation No. 49 of the particle number measurement procedure	(a)
04	United Kingdom	3	E	Clarification to and update of Regulation No. 83 regarding the particle number measurement procedure	(a)
05	OICA	3	E	Light duty diesel vehicle particle number Round Robin	(a)
06	OICA	6(c)	E	OICA proposal for draft amendments to Regulation No. 83	(c)
07	India/EFV	8	E	"Conclusion paper" of the 4th International Conference on Environmentally Friendly Vehicles (EFV Conference in New Delhi)	(a)
08	Japan	10	E	Establishment of methods for measuring exhaust emissions and fuel economy of plug-in hybrid vehicles	(a)
09	Euromot	11(b)	E	Proposal for Regulation for retrofit aftertreatment systems for engines used in non-road mobile machinery and agricultural tractors with respect to the emission of pollutants	(a)
10	Italy	6(f)	E	Proposal to amend Regulation No. 120	(a)
11- Rev.1	Secretary	6(c)	E	Draft agenda for the GRPE expert meeting on Euro 5 requirements	(a)

<i>No.</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow-up</i>
12	United Kingdom	3	E	Particle Measurement Programme (PMP): Heavy duty inter-laboratory correlation exercise - Final report	(a)
13	EC	6(c)	E	Proposal of amendment to Regulation No. 103	(c)
14	EC	6(a)	E	Test procedure for establishing vehicle emissions due to the use of mobile air-conditioning	(a)
15	OICA	6(a)	E	Response to informal document No. GRPE-59-14	(a)
16	Poland	6(c)	E	Comments to the draft amendments to Regulations Nos. 83 and 49	(a)
17	EC	4	E	Proposal for draft amendments to global technical regulation No. 2 (WMTC)	(a)
18	EC	6(c)	E	Proposal of amendment to Regulation No. 83 (consolidated version)	(a)
19	India	8	E	Brief report to GRPE on the progress made by EFV informal group in its 5th meeting held in New Delhi on 25 November 2009	(a)
20	Netherlands	11(b)	E	Proposal for a retrofit test procedure for particulate traps	(a)
21	EC	2(d)	E	Proposal for draft amendments to ECE/TRANS/WP.29/GRPE/2010/5 (Regulation No. 49)	(b)
22	EC	6(c)	E	Proposal for draft amendments to ECE/TRANS/WP.29/2010/53 (Regulation No. 83)	(b)
23	EC	6(d)	E	Proposal for draft amendments to ECE/TRANS/WP.29/2010/76/Corr.1 (Regulation No. 101)	(b)
24	WLTP	6(a)	E	Summary of the 4th informal group meeting on WLTP	(a)
25	FQ	9	E	Summary of the 5th meeting of the informal group on Fuel Quality	(a)
26	OICA	6(c)	E	OICA stance on the EC proposals regarding the transposition of Euro 5 requirements into ECE Regulation No. 83	(a)
27	United Kingdom	3	E	PMP Progress report	(a)



<i>No.</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow- up</i>
28	IRU	2(e)	E	IRU "30-by-30" Resolution	(a)
Consideration of informal documents from the fifty-seventh GRPE sessions (referring to the agenda item of the current GRPE session)					
02	Russian Federation	6(c)	E/R	Proposal for draft amendments to ECE Regulation No. 83	(c)

## Notes:

- (a) Consideration completed or to be superseded
- (b) Adopted and submitted to WP.29
- (c) Resume consideration on the basis of an official document

## Annex II

### **Informal meetings held in conjunction with the fifty-ninth session of GRPE**

1. Following the agreement reached at the previous GRPE session, seven informal meetings were held in conjunction with the fifty-ninth session of the GRPE.
  2. The twenty-fifth informal meeting of the GRPE working group on the Particle Measurement Programme (PMP) was held in the morning of 11 January 2010, under the Chairmanship of Mr. C. Parkin (United Kingdom). A summary of the proceedings of this informal meeting is given in the report above (paras. 14-16).
  3. The fifth informal meeting of the GRPE working group on Hydrogen and Fuel Cell Vehicles – Sub Group Environment (HFCV-SGE) was held in the afternoon of 11 January 2010, under the Chairmanship of Mr. A. Perujo (EC-JRC). A summary of the proceedings of this informal meeting is given in the report above (paras. 36-37).
  4. An ad hoc expert meeting on Euro 5 emission requirements (Euro 5 levels) was held on 12 January 2010 under the Chairmanship of Mr. A. Rijnders (Netherlands). A summary of the proceedings of this informal meeting is given in the report above (paras. 10-11 and 28-33).
  5. The fifth informal meeting of the GRPE working group on Fuel Quality (FQ) was held on 12 January 2010 (afternoon only) under the Chairmanship of Mr. B. Gauvin (France). A summary of the proceedings of this informal meeting is given in the report above (paras. 41-43).
  6. The second informal meeting of the WLTP sub group on the Development of the Harmonized driving Cycle (WLTP-DHC) was held on 13 January 2010 under the Co-Chairmanship of Mr. H. Ishii (Japan) and Mr. C. Mills (United Kingdom). A summary of the proceedings of this informal meeting is given in the report above (para. 23).
  7. The fourth informal meeting of the GRPE working group on Worldwide harmonized Light vehicles Test Procedures (WLTP) was held on 13 January 2010 (afternoon only) under the Chairmanship of Mr. B. Gauvin (France). A summary of the proceedings of this informal meeting is given in the report above (paras. 21-25).
  8. The sixth informal meeting of the GRPE working group on Environmentally Friendly Vehicles (EFV) was held on 15 January 2010 under the Chairmanship of Mr. S. Marathe (India). A summary of the proceedings of this informal meeting is given in the report above (paras. 38-40).
-