

Provisional Agenda
8th Meeting of the Quiet Road Transport Vehicle Work Group
18 thru 20 October 2011
Baltimore, Maryland, USA

18 October- 10:00 a.m. to 5:30 p.m.

1. Welcome and Opening remarks
 - QRTV Chairman
 - Host Organization: (TBD) National Federation of the Blind
2. Introduction of Participants and Logistic Information
3. Agenda
 - a) Modifications / Additions
 - b) Adoption
4. Minutes from 7th Meeting in Osaka, Japan
 - a) Modifications / Additions
 - b) Adoption
5. Report of Activities
 - a) Report by GRB Chairman Christian Theis of relevant information from September 2011 meeting
 - b) Status report U.S. NHTSA regarding regulation development and the 12 July 2011, NHTSA Notice of Intent to Prepare an Environmental Assessment for Pedestrian Safety Enhancement Act of 2010 Rulemaking
 - c) Status report on U.K. study of quiet car related accidents
 - d) Status report on activities in Japan
 - e) Status report on activities in Germany
 - f) Status of U.S. proposal to sponsor the GTR

g) Report by QRTV Chairman of special meeting at Inter Noise 2011 to hear presentations by the following conference presenters regarding quiet cars:

- Mr. Norio Kubo, President, Yokohama Institute of Acoustics, Inc., discussing development of various audible sound designs,
- Dr. Klaus Genuit, President, Head Acoustics GmbH, discussing audible signal characteristics in low signal to environmental noise conditions,
- Dr. Koji Nagahata, Associate Professor, Fukushima University, discussing the quiet vehicle impact on the soundscape
- Mr. Toshiyuki Tabata, Advanced Vehicle Performance Group, Nissan Motor Company, Ltd, discussing basis for selecting two primary frequency bands for audible signal detection in various environments
- Dr. Katsuya Yamauchi, Professor, Nagasaki University, discussing cultural differences with regard to various audible signals

7. Presentations:

- a) Further discussion by the U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA), Volpe Laboratories, of their Phase 2 report and the application of results to regulation development.
- b) To be determined
- c) Recap of Osaka meeting by QRTV Chairman

6:30 p.m. Group Dinner at waterfront restaurant (optional)

19 October - 9:30 a.m. to 5:30 p.m.

8. Development of a Draft Global Technical Regulation (GTR). (Attachment A - GTR template to be provided prior to Baltimore meeting)

(Receive inputs from experts as assigned at the Osaka meeting)

- a) Revise Scope and Introduction language per Osaka discussions
- b) Applicability - Need to resolve applicability wording issue
- c) Definitions - Need to provide clear definitions of vehicles subject to this GTR, environmental terms, vehicle operation, other terms used in GTR

- d) General Requirements - Need to define alerting system requirements with regard to pedestrian safety and environmental masking
- e) Alerting Signal Characteristics - Need to specify acoustic signal form, time related functions and other key acoustic parameters
- f) Performance Requirements - Need to specify acoustic performance in terms of sound pressure level, directionality, locatability, operation on-time, and other key performance requirements of alerting system
- g) Test Conditions - Need to specify environmental test environment that are not defined in the ISO quiet vehicle test procedure such as use of test subjects, vehicle selection, etc.
- h) Test Procedures - Need to incorporate by reference the ISO quiet vehicle test procedure to establish baseline vehicle sound levels (with regard to vehicle operation, alerting system operation, environmental conditions, acoustic influences, other)
- i) Conformance Test Procedure - Need to define test procedure that will be used by government authorities to determine compliance with GTR
- j) Alignment of Technical Terms - Need to review definitions, performance requirements, testing protocols and other key technical requirements with those established by signatories to the 1958 and 1998 Agreements
- k) Other considerations (See Attachment B)

6:00 p.m. NFB reception and President hosted dinner for participants

20 October - 9:30 a.m. to 5:30 p.m.

- 9. Continuation of GTR development
- 10. Collaboration / Harmonization of U.S. Pedestrian Safety Regulation with UN/ECE/GTR for Quiet Road Transport Vehicles (QRTV). (see Attachment C)
- 11. Discussion and assignment of key GTR requirements
 - a) Economic / cost analysis
 - b) Public benefit analysis
 - c) Environmental impact analysis
 - d) Other considerations

12. Date and place of 9th and 10th(?) QRTV meetings.
13. Required February 2012 report/recommendations to the GRB
14. Review and discussion of recent publications, both pro and con, regarding the need for alerting devices on quiet vehicles
15. Other business
16. Adjourn

Attachment A

Draft GTR Template
Global Technical Regulation Regarding Audible Alerting Systems
for Quiet Road Transport Vehicles

Attachment B

Development of UN/ECE/Global Technical Regulation (GTR)

(The following explanation is provided for those parties not familiar with the GTR requirements set forth in the UN/ECE/1998 Agreement)

Article 6, of the Agreement Concerning the Establishing of Global Technical Regulations for Wheeled Vehicles, Equipment and Parts Which Can Be Fitted and/or Be Used on Wheeled Vehicles (1998 Agreement), requires the following major elements for the development of a GTR for QRTV alerting systems:

- a) A proposal to the Executive Committee of the 1998 Agreement (AC.3) from a contracting party(s) to develop a harmonized
 - i) an explanation of the objective of a GTR
 - ii) a narrative description or draft text of the proposed GTR
 - iii) identification of documentation that will facilitate the analysis of issues to be addressed in the report [to the AC.3] that supports the recommended GTR and those issues that may be in opposition to the GTR
 - iv) recommendation of Working Party(s) that are appropriate to the development of the proposed GTR
- b) Obtain a consensus vote of the AC.3 in favor of developing a GTR, establish the country sponsorship(s) of the GTR (Japan? USA? Germany? EU? others?), assign the regulation development to a Working Party(s) with recommended time schedule

- c) In accordance with Article 6 of the 1998 Agreement the Working Party(s) shall develop a work plan, time lines and assign responsibilities to:
- i) consider technical feasibility
 - ii) consider economic feasibility
 - iii) examine benefits, including those of any alternative regulatory requirements and approaches considered
 - iv) compare potential cost effectiveness of the recommended regulation to that of alternative regulatory requirements and approaches considered
 - v) verify whether the new GTR satisfies the stated objective and the criteria of Article 4 and
 - vi) give due consideration to the possibility of the technical regulation being established under the 1958 Agreement
- d) The Executive Committee determines if the recommended regulation and its supporting materials meet the requirements for establishment as a GTR under the UN 1998 Agreement.
- e) The Executive Committee of the 1958 Agreement (AC.1) will determine if the regulation meets requirements for establishment under the UN 1958 Agreement

Attachment C

National Highway Traffic Safety Administration

Notice of Intent to Prepare an Environmental Assessment fo Pedestrian Safety Enhancement Act of 2010 Rulemaking