

**Economic and Social Council**Distr.: General  
20 February 2017

Original: English

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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Passive Safety****Sixty-first session**

Geneva, 8-12 May 2017

Item 13 of the provisional agenda

**Regulation No. 44 (Child restraint systems)****Proposal for Supplement 13 to the 04 series of amendments  
to Regulation No. 44 (Child Restraint Systems)****Submitted by the expert from the Netherlands\***

The text reproduced below was prepared by the expert from the Netherlands, to describe the "new-born" manikins Q0 and P0. It is based on informal document GRSP-60-14 which was distributed at the sixtieth session of the Working Party on Passive Safety (GRSP) (ECE/TRANS/WP.29/GRSP/60, para. 29). The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

GE.17-02683(E)



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## I. Proposal

*Annex 8, Appendix 2*, amend to read:

### "Annex 8 – Appendix 2

#### Description of the "new-born" manikins Q0 and P0

1. **Manikin Q0**<sup>1</sup>
2. **Manikin P0**

The manikin **P0** originates back from 1987 (Supplement 1 to the 02 Series of Amendments) and is described below.

It comprises a head, torso, arms and legs as a single unit. The torso, arms and legs are a single moulding of Sorbothane covered with a PVC skin and containing a steel spring spine. The head is a polyurethane foam moulding covered by a PVC skin and is permanently attached to the torso. The manikin is provided with a close fitting stretch cotton/polyester suit.

The dimensions and mass distribution of the ~~dummy~~ manikin are based on those of a 50th percentile new-born baby and are given in Tables 1 and 2 and in Figure 1.

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## II. Justification

1. Informal Working Group of GRSP on Child restraint systems already discussed issues to include the P0 manikin in the text of Regulation No. 44. Referring to the years 2001-2002, when GRSP discussed the inclusion in the text of Regulations side impact dummies ES-1 and ES-2, the expert from the Netherland proposes the inclusion of Q0 manikin in Regulation No. 44 as well.
2. In fact P0 manikin type is designed to be used as a loading device, the Q0 is designed to measure also acceleration, forces and moments, but could eventually also simply be used as loading device.

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<sup>1</sup> The technical specifications and detailed drawings of the Q-dummy, including Q0, and the adjustments for the tests of this Regulation are transitory on the website of the Informal Working Group on Enhanced Child Restraint Systems ([www2.unece.org/wiki/display/trans/Q-dummy+drawings](http://www2.unece.org/wiki/display/trans/Q-dummy+drawings)) of the UNECE, Palais de Nations, Geneva, Switzerland. When the [Regulation] is adopted by the World Forum for Harmonization of Vehicle Regulations (WP.29), the text restricting the use of the drawings and technical specifications will be removed from the individual pages and they will be reloaded on the above-mentioned website. After a time period needed by the Informal Working Group to finalize the examination of the technical specifications and drawings of dummies, the final and agreed drawings will be relocated in the Mutual Resolution of the 1958 and 1998 Agreements and hosted in the website of the World Forum WP.29."