Proposal for amendments to ECE/TRANS/WP.29/GRSP/2011/13
(Draft Amendment 2 to global technical regulation No. 9 - Phase 2
(Pedestrian safety))

Note: This document was prepared by the expert from Japan in order to conduct Technical/Editorial amendments. The amendments are supported by Flex-TEG members.

I. Proposal

Paragraphs 7.1.2., amend to read:

“7.1.2. Lower legform II to bumper test procedure

The test impactor shall be stored during a period of at least four hours in a controlled storage area with a stabilized temperature of 20 ± 4 °C prior to impactor removal for test. After removal from the storage the impactor shall not be subjected to conditions other than those pertaining in the test area.

Each test shall be completed within two hours of the impactor's to be removed from the controlled storage area.”

Paragraphs 8.2.2.2.1., amend to read:

“8.2.2.2.1. The test impactor shall be stored for a period of at least four hours in a controlled storage area with a stabilized temperature of 20 ± 2 °C prior to impactor removal for certification. The test impactor shall have a temperature of 20 ± 2 °C at the time of impact. The test facility used for the certification test shall have a stabilized temperature of 20 ± 4 °C during certification.”

Paragraphs 8.2.3.2.1., amend to read:

“8.2.3.2.1. The test impactor shall be stored for a period of at least four hours in a controlled storage area with a stabilized temperature of 20 ± 2 °C prior to impactor removal for certification. The test impactor shall have a temperature of 20 ± 2 °C at the time of impact. The test facility used for the certification test shall have a stabilized temperature of 20 ± 4 °C during certification.”

Insert additional amendments on Paragraphs 6.1.1., to read:

“6.1.1. Temperature and humidity

At the time of testing, the test facility and the vehicle or sub-system shall have a relative humidity of 40 percent ± 30 percent and stabilized temperature of 20 ± 4 °C. However, in the case to conduct Lower legform impactor II test, only the requirement of temperature, 20 ± 4 °C, shall be considered.”
Figure 17. Amend to read:

Lower legform II; instrument locations

Instruments locations

Tolerance of each location is +/- 1 mm

Knee joint block center without impact face

MCL: Medial collateral ligament
ACL: Anterior cruciate ligament
PCL: Posterior cruciate ligament

Direction of travel

Y axis

Z axis

X axis

Unit: mm
Figure 35. Amend to read:

"Figure 35
Lower legform II test set-up for knee joint in static certification test (see paragraph 8.2.1.5.)
II. Justification

Following Technical/Editorial amendments are supported by Flex-TEG members:

*Paragraphs 7.1.2.* Impactor soak time is added. (technical)

*Paragraphs 8.2.2.2.1.* Impactor soak time is added and test area condition is amended. (technical)

*Paragraphs 8.2.3.2.1.* Impactor soak time is added and test area condition is amended. (technical)

*Insert additional amendments on Paragraphs 6.1.1.* Test area condition during the Lower legform II test is amended (technical).

*Figure 17.* Indicated locations are amended (editorial):

*Figure 35.* Load transducer positions and comments are amended/updated (technical):