

Emergency Steering Function (ESF) False reaction test

Draft Proposal:

Annex 8

X.X. False reaction test for ESF

- X.X.1.** The one side on the left or the right of the lane marking shall be covered by a thin [colored] plastic sheet on the dry condition of the test course. The sheet shall be [2m] width and at least [5m] length and be put within the lane
- X.X.2.** The subject vehicle shall travel for a distance of at least [60 m], at a constant speed of [50+/- 2] km/h to pass centrally on the lane. During the test there shall be no adjustment of any subject vehicle control other than slight steering adjustments to counteract any drifting.
- X.X.3.** The ESF function shall not initiate in the above situation.

Justification

The aim of ESF is similar to AEBS system for mitigating or avoiding a collision. ESF should be checked any false reaction test for the safety on the road same as AEBS of Regulation 131.

A thin colored plastic sheet is a representative of a contrast of asphalt after a road construction. In this case, ESF function should not activate.

Comparison between AEBS reg. (R131) and ESF requirement

	ESF requirements	Test for AEBS (UN-R131)
Warning and Activation	Para. 5.1.6.3.1.~ 5.1.6.3.3.	Para. 6.4 (Stationary target) Para. 6.5(moving target)
Failure detection	Para. 5.1.6.3.5.	Para. 6.6.
Deactivation	No requirement for ESF	Para. 6.7.
False reaction	Para. X.X.1.~X.X.3.	Para. 6.8.