Annex 7

Calculations

7.   Drive trace indices

7.1.   General requirement

The prescribed speed between time points in Tables A1/1 to A1/12 shall be determined by a linear interpolation method at a frequency of 10 Hz.

In the case that the accelerator control is fully activated, the prescribed speed shall be used instead of the actual vehicle speed for drive trace index calculations during such periods of operation.

7.2.   Calculation of drive trace indices

The following indices shall be calculated according to SAE J2951(Revised JAN2014):

(a)   ER   : Energy Rating

(b)   DR   : Distance Rating

(c)   EER   : Energy Economy Rating

(d)   ASCR   : Absolute Speed Change Rating

(e a)   IWR   : Inertial Work Rating (%)

(f b)   RMSSE : Root Mean Squared Speed Error (km/h)

7.3.   Criteria of drive trace indices

In the case of type approval test, the following indices shall be fulfilled the following criteria.

(a) IWR shall be in the range of -2.0 to +4.0

(b) RMSSE shall be less than [TBD]