40 C.F.R. § 1037.515

Determining CO2 emissions to show compliance for trailers.

This section describes a compliance approach for trailers that is consistent with the modeling for vocational vehicles and tractors described in § 1037.520, but is simplified consistent with the smaller number of trailer parameters that affect CO_2 emissions. Note that the calculated CO_2 emission rate, e_{CO_2}, is equivalent to the value that would result from running GEM with the same input values.

  (a) *Compliance equation.* Calculate CO_2 emissions for demonstrating compliance with emission standards for each trailer configuration.

  (1) Use the following equation:

$$e_{CO2} = \left(C_1 + C_2 \cdot TRRL + C_3 \cdot \Delta C_d A + C_4 \cdot WR\right) \cdot C_5$$

  Eq. 1037.515-1

Where:

C_i = constant values for calculating CO_2 emissions from this regression equation derived from GEM, as shown in Table 1 of this section. Let C_5 = 0.988 for trailers that have automatic tire inflation systems with all wheels, and let C_5 = 0.990 for trailers that have tire pressure monitoring systems with all wheels (or a mix of the two systems); otherwise, let C_5 1. *TRRL* = tire rolling resistance level as specified in paragraph (b) of this section. $\Delta C_d A$ = the $\Delta C_d A$ value for the trailer as specified in paragraph (c) of this section. *WR* = weight reduction as specified in paragraph (d) or (e) of this section.

Table 1 of § 1037.515 — Regression Coefficients for Calculating CO_2 Emissions

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