

**§ 1962.1. Zero-Emission Vehicle Standards for 2009 through 2017 Model Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles.**

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**(b) Percentage ZEV Requirements.**

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**(2) Requirements for Large Volume Manufacturers.**

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**(D) Requirements for Large Volume Manufacturers in Model Years 2012 through 2017.**

**1. 2012 through 2014 Requirements.** On an annual basis, a manufacturer must meet the total ZEV obligation with ZEV credits generated by such vehicles, excluding credits generated by NEVs and Type 0 ZEVs equal to at least 0.79% of its annual sales, using either production volume determination method described in subdivision 1962.1(b)(1)(B). No more than 50% of the total obligation may be met with credits generated from PZEVs. No more than 75% of the total obligation may be met with credits generated from AT PZEVs. No more than 93.4% may be met with credits generated from TZEVs, Type 0 ZEVs, and NEVs, as limited in subdivision 1962.1(g)(6). The entire obligation may be met solely with credits generated from ZEVs.

**2. 2015 through 2017 Requirements.** On an annual basis, a manufacturer must meet its ZEV obligation with ZEV credits generated by such vehicles, excluding credits generated by NEVs and Type 0 ZEVs, equal to at least 3% of its annual sales, using either production volume determination method described in subdivision 1962.1(b)(1)(B). No more than 42.8% of the total obligation may be met with credits generated from PZEVs. No more than 57.1% of the total obligation may be met with credits generated from AT PZEVs. No more than 78.5% may be met with credits generated from TZEVs, Type 0 ZEVs, and NEVs, as limited in subdivision 1962.1(g)(6). The entire obligation may be met solely with credits generated from ZEVs.

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**(c) Partial ZEV Allowance Vehicles (PZEVs).**

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**(3) Zero-Emission VMT PZEV Allowance.**

**(A) Calculation of Zero-Emission VMT Allowance.** A vehicle that meets the requirements of subdivision 1962.1(c)(2) and has zero-emission vehicle miles traveled (“VMT”) capability will generate an additional zero emission VMT PZEV allowance calculated as follows:

Range	Zero-emission VMT Allowance
$EAER_u < 10$ miles	0.0
$EAER_u \geq 10$ to 40 miles	$EAER_u \times (1 - UF_{R_{cda}})/11.028$
$EAER_u > 40$ miles	$\frac{(EAER_{u40}) \times [1 - (UF_{40} \times R_{cda} / EAER_u)]}{11.028}$ $+ \frac{3.627 \times (1 - UF_n)}{11.028}$ <p>Where,  <math>UF_{40}</math> = utility factor at 40 miles  <math>EAER_{u40}</math> = 40 miles  <math>n = 40 \times (R_{cda} / EAER_u)</math></p>

A vehicle cannot generate more than 1.39 zero-emission VMT PZEV allowances.

The urban equivalent all-electric range ( $EAER_u$ ) and urban charge depletion range actual ( $R_{cda}$ ) shall be determined in accordance with section G. 5.411.4 and G.11.9, respectively, of the “California Exhaust Emission Standards and Test Procedures for 2009 through 2017 Model Zero-Emission Vehicles, and Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium Duty Vehicle Classes,” adopted December 17, 2008, and last amended March 22, 2012/December 6, 2012, incorporated by reference in section 1962.1(h). The utility Factor (UF) shall be determined according to SAE International’s Surface Vehicle Information Report J2841 SEP2010 (Revised September 2010), incorporated by reference herein, from the Fleet Utility Factors (FUF) Table in Appendix B or using a polynomial curve fit with “FUF Fit” coefficients from Table 2 Utility Factor Equation Coefficients based on the charge depleting actual range (urban cycle) ( $R_{cda}$ ) shall be determined according to Section 4.5.2 Equation 6 and the “Fleet UF” Utility Factor Equation Coefficients in Section 4.5.2, Table 3 of SAE J2841 March 2009.

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**(h) Test Procedures.**

**(1) Determining Compliance.** The certification requirements and test procedures for determining compliance with this section 1962.1 are set forth in "California Exhaust Emission Standards and Test Procedures for 2009 through 2017 Model Zero-Emission Vehicles and Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes," adopted December 17, 2008, and last amended ~~March 22, 2012~~ December 6, 2012, which is incorporated herein by reference.

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Note: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43104 and 43105, Health and Safety Code. Reference: Sections 38562, 39002, 39003, 39667, 43000, 43009.5, 43013, 43018, 43018.5, 43100, 43101, 43101.5, 43102, 43104, 43105, 43106, 43204, 43205, 43205.5 and 43206, Health and Safety Code.

