ATTACHMENT A

FINAL REGULATION ORDER FOR THE
ALTERNATIVE CERTIFICATION REQUIREMENTS AND TEST PROCEDURES FOR
HEAVY-DUTY ELECTRIC AND FUEL-CELL VEHICLES AND PROPOSED
STANDARDS AND TEST PROCEDURES FOR ZERO-EMISSION POWERTRAINS
(ZERO-EMISSION POWERTRAIN CERTIFICATION REGULATION)

Note: Set forth below are the proposed amendments to title 13, California Code of
Regulations (CCR), section 1956.8 and to title 17, CCR, section 95663. Proposed
amendments to existing sections are shown in underline to indicate additions and
strikeout to indicate deletions, compared to preexisting regulatory language.
Subsections for which no changes are proposed in this rulemaking are indicated with
“* * * *”.[Bracketed text] is not part of the proposed amendments.

Title 13, California Code of Regulations

§ 1956.8. Exhaust Emission Standards and Test Procedures - 1985 and Subsequent
Model Heavy-Duty Engines and Vehicles and 2021 and Subsequent Zero-Emission
Powertrains.

(a)(1) The exhaust emissions (i) from new 1985 through 2003 model heavy-duty diesel
engines (except methanol–fueled engines), and heavy–duty natural–gas–fueled and
liquefied–petroleum–gas–fueled engines derived from diesel–cycle engines, and (ii)
from all new 1993 through 2003 model heavy–duty methanol–fueled, diesel engines,
except in all cases engines used in medium–duty vehicles, shall not exceed:

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(8) Zero-Emission Powertrain Certification Standards. Model Year (MY) 2021 and
subsequent MY all-electric and hydrogen fuel-cell powertrains used in heavy-duty
vehicles (over 14,000 pounds gross vehicle weight rating) and incomplete medium-duty
vehicles (from 8,501 through 14,000 pounds gross vehicle weight rating) may be
certified in accordance with the “California Standards and Test Procedures for New
2021 and Subsequent Model Heavy-Duty Zero-Emission Powertrains,” as adopted
June 27, 2019, which is hereby incorporated by reference herein. Powertrains certified
using these procedures shall be deemed to have exhaust emissions of zero for any
criteria pollutant or greenhouse gas.

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Date of Hearing: June 27, 2019
(i) Definitions Specific to this Section. The following definitions apply to this section 1956.8.

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(12) “Zero-emission powertrain” means an all-electric or hydrogen fuel-cell powertrain assembly, which includes (if applicable) the electric traction motor, system controller, generator, on-board charger, battery management system, thermal management systems, energy storage system (batteries, capacitors, and flywheels), inverter, fuel-cell stack, and the interface at which electrical power is converted to tractive mechanical power or vice-versa (in the case of a regenerative braking system), certified pursuant to the requirements in subsection (a)(8).

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Title 17, California Code of Regulations


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(d) The test procedures for determining compliance with GHG emission standards applicable to 2014 and subsequent model medium- and heavy-duty vehicles are set forth in the “California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles,” adopted October 21, 2014, as last amended December 19, 2018June 27, 2019, which is incorporated by reference herein.


Date of Hearing: June 27, 2019