**APPENDIX B-7.1**

State of California

California Environmental Protection Agency

 AIR RESOURCES BOARD

Stationary Source Division

**PROPOSED**

CALIFORNIA TEST PROCEDURES FOR EVALUATING SUBSTITUTE FUELS AND NEW CLEAN FUELS IN 2015 AND SUBSEQUENT YEARS

Adopted: March 22, 2012

Amended: [INSERT DATE OF AMENDMENT]

[Note: This version of the Proposed Regulation Order is provided in a tracked changes format to improve the accessibility of the regulatory text. This version is not the authoritative version for this proposed rulemaking. The proposed amendments are incorporated into the current regulatory text for ease of readability only. For the authoritative version that complies with Government Code section 11346.2, subdivision (a)(3), please see Appendix B-7. To review this document in a clean format (no underline or strikeout to show changes), please [accept all tracked changes](https://support.microsoft.com/en-us/office/accept-or-reject-tracked-changes-in-word-b2dac7d8-f497-4e94-81bd-d64e62eee0e8).]

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CALIFORNIA TEST PROCEDURES FOR EVALUATING SUBSTITUTE FUELS AND NEW CLEAN FUELS IN 2015 AND SUBSEQUENT YEARS

# I. *Introduction*

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## C. Definitions

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7. “Light-Duty Test Procedures” means the “California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles,” incorporated by reference in section 1961, title 13, CCR, the “California 2015 through 2025 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures Passenger Cars, Light‑Duty Trucks, and Medium‑Duty Vehicles,” incorporated by reference in section 1961.2, title 13, CCR, or the “California 2026 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light‑Duty Trucks, and Medium‑Duty Vehicles,” incorporated by reference in section 1961.4, title 13, CCR, as applicable.

8. "LDV" means light-duty vehicle, "MDV" means medium-duty vehicle. In this protocol, "low-emission vehicle" includes all vehicles certifying to the California LEV II, LEV III, and LEV IV standards, set forth in sections 1961, 1961.2, and 1961.4, title 13, CCR.

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# VI. *Test Vehicles*

## A. Vehicle Categories for Testing

 1. Vehicle categories eligible for testing candidate fuels are only those categories subject to the LEV II, LEV III, and LEV IV emissions standards set forth in the applicable Light-Duty Test Procedures.

2. Within each eligible category, the only vehicles eligible for testing under this protocol shall be the vehicles that are reasonably capable of operating on the candidate fuel and for which the candidate fuel is not also the reference fuel.

3. The Executive Officer shall maintain estimates of the total emissions from, and total annual miles travelled by vehicles in the state in each of the LEV II, LEV III, and LEV IV categories assuming that all the vehicles receive their reference fuels all the time. These estimates shall be for the same time as, consistent with, and updated on the same schedule as the estimates of miles travelled that the Executive Officer uses to determine the required numbers of new retail outlets for clean fuels under paragraph (d)(2) of section 2305 and paragraph (e)(2) of section 2307, Subchapter 8, Title 13, CCR.

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# VIII. *Emission Testing Procedures*

A. All emission tests shall be done according to the "California 2015 through 2025Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," incorporated by reference in title 13, CCR, section 1961.2 or according to the “California 2026 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light‑Duty Trucks, and Medium‑Duty Vehicles,” incorporated by reference in title 13, CCR, section 1961.4, as applicable.

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F. In each test run, the NMOG emissions shall be speciated for determining the ozone-forming potential of the vehicle's exhaust. Species in the NMOG emissions shall be identified and quantified by the procedures in the "California Non-Methane Organic Gas Test Procedures for 2017 and Subsequent Model Year Vehicles," incorporated by reference in section 1961.2, title 13, CCR. Exhaust emissions of benzene, 1-3 butadiene, formaldehyde, and acetaldehyde shall be identified and quantified using the procedures in the same document.

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# X. *Calculations*

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## B. Test Run Results

1. Emission rates of CO, NOx, and NMOG, expressed as "g/mile", and the emission rate of each toxic pollutant, expressed as "mg/mile'', shall be determined in each test by the procedure described in the "California 2015 through 2025 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" or the “California 2026 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light‑Duty Trucks, and Medium‑Duty Vehicles,” as applicable.

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# XI. *Demonstration Regarding Durability*

A. The applicant shall satisfy the requirements of paragraph (a)(3)(C), section 2317, Subchapter 8, Title 13, CCR; paragraph (a)(2), section 100.3.8, Part II of the "California 2015 through 2025 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles;" or paragraph (a)(2), section A.3.8, Part II of the “California 2026 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light‑Duty Trucks, and Medium‑Duty Vehicles, as applicable, (both concerning deterioration of emission control), whichever applies, by the procedures in this section.

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