



In-Use Off-Road Diesel-Fueled Fleets Regulation

Overview of 2022 Amendments
October 5, 2023 and October 19, 2023
Eloy Florez



Outline

- Background
- Amendments
- Resources

Regulation Background

Overview

CARB has regulated in use off road diesel vehicles since 2008

- Applicability:
 - Vehicles with diesel engines 25 horsepower and up¹
 - Construction, mining, industrial equipment, and others
 - Some two-engine on-road vehicles and workover rigs
- Declining fleet average emissions targets
- Ban on adding Tier 0 - Tier 2 vehicles
- Report and label all vehicles
- Idling limits

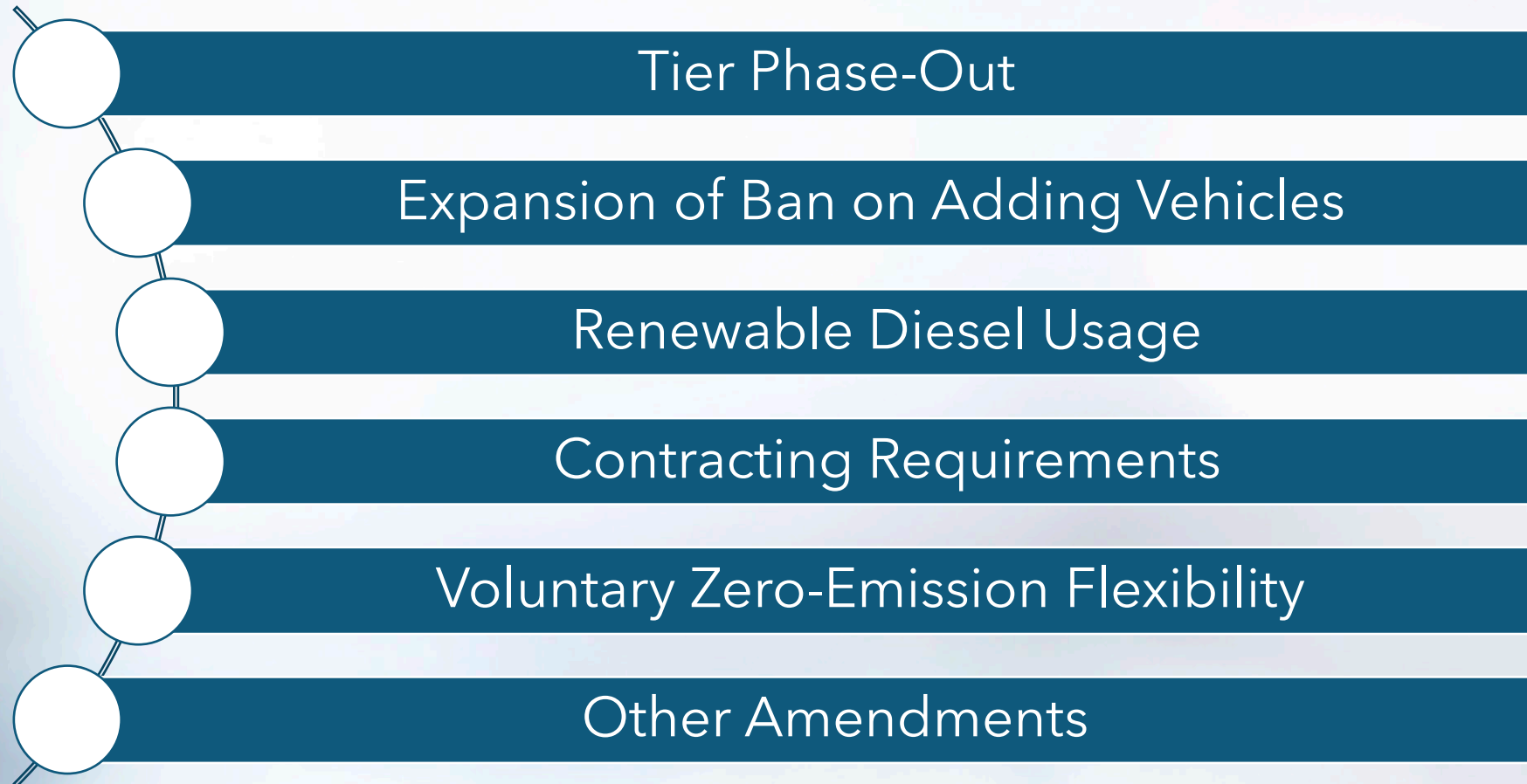
¹Excludes equipment such as agricultural use, dedicated snow removal, and emergency vehicles.

Vehicle Label

AB7C89

The California Air Resources Board Adopts Amendments

Approved by Office of Administrative Law, effective date October 1, 2023



Off-Road Engine Standards

- The engine tier correlates with the emission standard-established by the U.S. Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB)
- CARB recommends the fleet check the emission control label on the engine for the engine tier.

Tier	Emissions
0	Dirtiest
4 Final	Cleanest

Tier Phase-Out

Year (January 1)	Large Fleets >5,000 total hp	Medium Fleets 2,501 to 5,000 total hp	Small Fleets ≤2,500 total hp	Optional Ultra-Small Fleets ≤500 total hp
2024	Tier 0			
2026	Tier 1	Tier 0		
2028	Tier 2	Tier 1	Tier 0	Tier 0
2030		Tier 2	Tier 1	Tier 1
2032			Tier 2	
2036				Tier 2

- Tier 0 includes model year (MY) 1994 or older on -road
- Tier 1 includes MY 1999 or older on-road
- Tier 2 includes MY 2003 or older on-road

Expansion of Ban on Adding Vehicles

Year (January 1)	Large Fleets >5,000 total hp	Medium Fleets 2,501 to 5,000 total hp	Small Fleets ≤2,500 total hp	Optional Ultra-Small Fleets ≤500 total hp
2024	Tier 3 Tier 4i	Tier 3 Tier 4i	Tier 3	Tier 3
2028			Tier 4i	
2035				Tier 4i

Beginning January 1, 2024, fleets will also be prohibited from adding a vehicle with a Tier 0 engine as:

- Dedicated snow removal vehicles
- Vehicles used for emergency operations
- Job corps vehicles

Tier 4i includes MY 2006 or older on-road

Renewable Diesel Requirements

Renewable diesel (RD) is a transportation fuel produced from non-petroleum renewable sources.

Fleets required to use RD starting January 1, 2024

Fleets must attest that they are compliant and keep records that demonstrate compliance

Some limited exemptions



Renewable Diesel Usage: Exemptions

Any Fleet or Fleet Portion

- Inability to procure
- 100% Tier 4 final, MY 2010 or newer on-road engines, or zero-emission
- Designated captive attainment area fleets or vehicles while operating in a county listed under the captive attainment definition, section 2449(c)(6)
- Winter Temperature - Intermittent and low

Contracting and Prime Contractor Requirements

Contracting

- Obtain valid Certificates of Reported Compliance (Certificate) for any fleet hired and their listed subcontractors
- Shall not enter into a contract with a fleet that does not have a valid Certificate
- Exemption for emergency operations
 - Keep records
 - Attestation by the fleet

Applicable to all contracting entities - public works awarding bodies and prime contractors

Prime Contractors

- Report observed non-compliance to CARB
 - Such as unlabeled vehicles or fleets without a valid Certificate
- Disclose ownership information to CARB at the job site
- Post signage with Off-Road Diesel Regulation information at job site
- Signage available for download

Requirements for prime contractors only

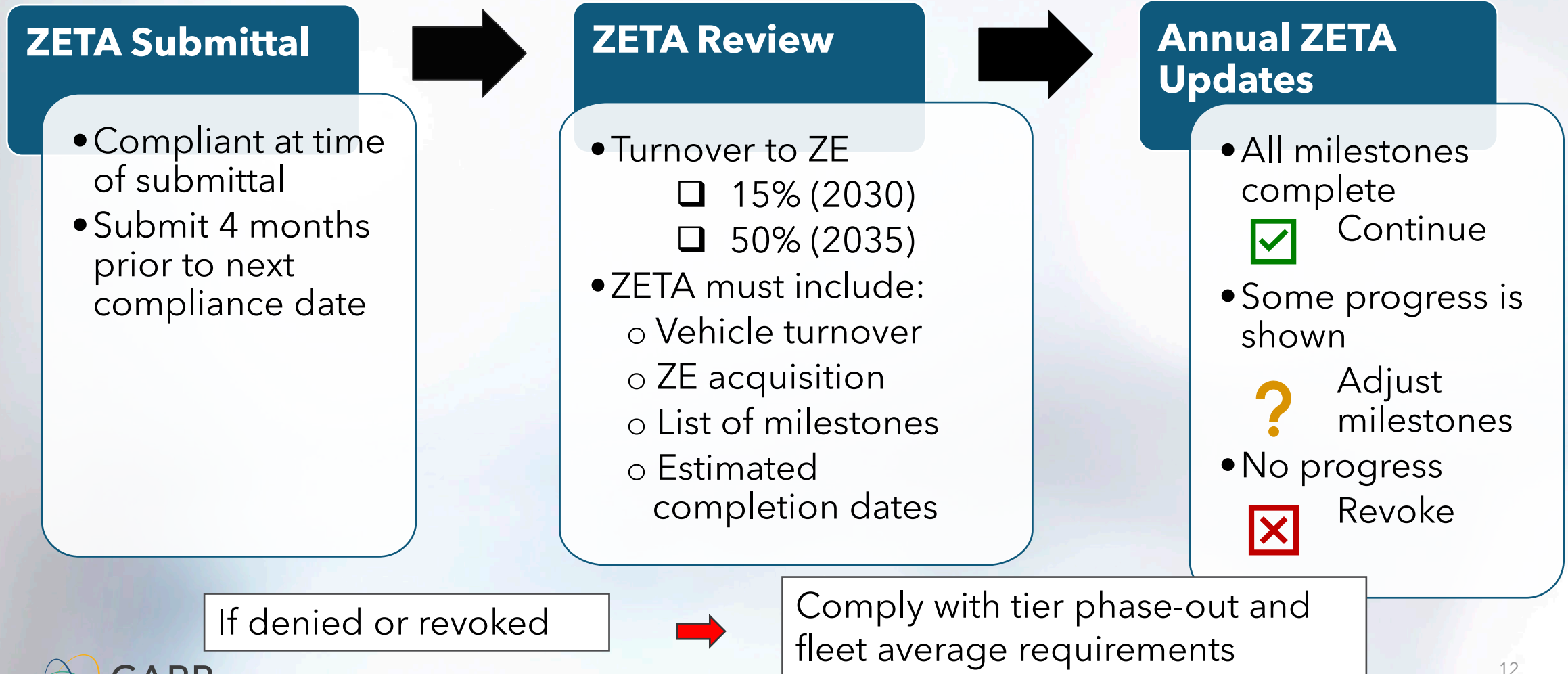
Voluntary Zero-Emission Flexibility: Vehicle to Vehicle



For each Zero-Emission (ZE) vehicle adopted, the fleet may continue to operate a Tier 1 or Tier 2 vehicle for two additional years beyond the phase-out years

- Must perform work of a diesel equivalent
- Must be similar max power rating as the ICE vehicle
- Must report vehicle information to CARB

Alternate Compliance Pathway through Zero-Emission Technology Application (ZETA)



Changes to Low-Use

- Year-by-year low-use expires January 1, 2024
- New reporting requirements for permanent low-use
 - Date stamped photo
 - Replaced/altered hour meter, notify CARB
- Three-year rolling average for permanent low-use
 - Average ≤ 600 hours of use over 3 consecutive years
- Low-use Tier 0 vehicles phase out January 1, 2036



Other Amendments

Emission Control Labels

If fleet observes that the emission control label is no longer visible or readable, must request replacement label

Carryover BACT credits

Provide additional flexibility by allowing fleets to generate credits after the final target date

Newly Reported Fleets

Must meet new fleet requirements

Funding Resources

- Clean Off-Road Equipment Voucher Incentive Project (CORE)
www.californiacore.org
- Carl Moyer Program
www.arb.ca.gov/our-work/programs/carl-moyer-memorial-air-quality-standards-attainment-program
- Local air district lookup
www.arb.ca.gov/california-air-districts



Program Resources

- Off-Road Regulation Text:

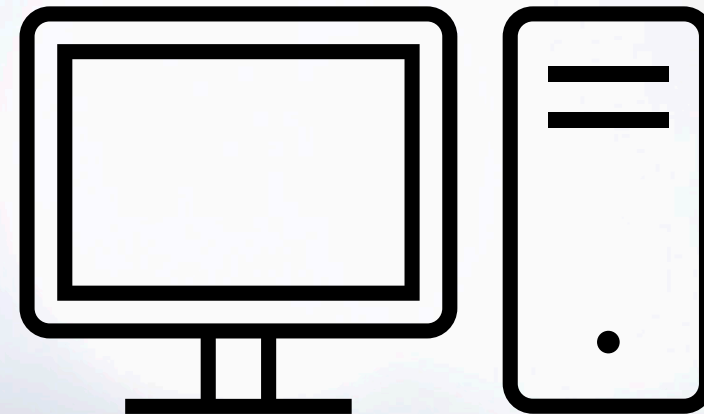
<https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2022/off-roaddiesel/froa-1.pdf>

- Contractor site poster:

https://ww2.arb.ca.gov/sites/default/files/2023-08/prime_contractor_signage.pdf

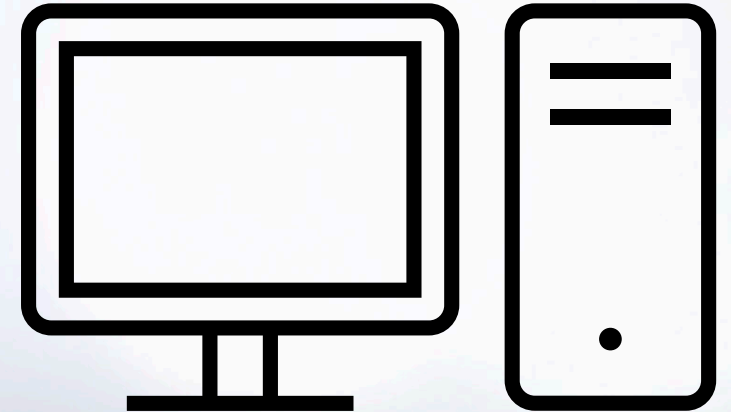
- Certificate Validation page:

www.arb.ca.gov/doors/compliance_cert1.html



Contact, Information, and Assistance

- Off-Road Regulation Homepage:
www.arb.ca.gov/ordiesel
- Off-Road Zone
<https://ww2.arb.ca.gov/our-work/programs/truckstop-resources/road-zone>
- DOORS Hotline and E-mail
(877) 593-6677
doors@arb.ca.gov



Next Informational Meeting Dates

General Off-Road Regulation Overview Session #2
(same material as Oct. 5 Session #1)

DATE: Thursday, October 19, 2023

TIME: 1:00 PM. to 3:00 PM.

Session on Off-Road Regulation Renewable Diesel Requirements

DATE: Wednesday, November 8, 2023

TIME: 1:00 PM. to 3:00 PM.

Session on Off-Road Regulation Contracting Requirements

DATE: Tuesday, December 5, 2023

TIME: 1:00 PM. to 3:00 PM.

Questions and Discussion