

### Heavy-Duty Vehicle Inspection and Maintenance (HD I/M) Workgroup Meeting:

Draft Proposed HD I/M Regulatory Text and Compliance Assistance Concepts for Small Fleets

March 29, 2021

# Today's Agenda

- Purpose of workgroup meeting
- Framing today's discussion and overview of HD I/M program vision
- Notable modifications to draft regulatory text
- Potential concepts for compliance assistance for small fleets
- Next steps
- Open discussion and Q&A



# Framing Today's Discussion and Overview of HD I/M Program Vision





### **Previous WG Meetings and Today's Focus**

- December 17, 2020: First look at staff's overall draft regulatory HD I/M concepts
- February 22, 2021: Targeted discussion to solicit additional feedback on enforcement mechanisms
- March 22, 2021: Release of updated draft regulatory text
- Today's focus:
  - Discuss thoughts on revised draft regulatory text
    - Restructured and organized into draft regulation order format
    - Still draft; continued opportunities for stakeholder feedback
  - Highlight and discuss potential small business assistance concepts



### **Overview of HD I/M Program Vision**

- Periodic testing requirements for emissions-related vehicle components
  - OBD data or opacity test data/emissions control inspection
- New enforcement mechanisms to complement periodic testing requirements, enhance compliance, and limit fraud
  - Network of roadside emissions monitoring systems
  - Compliance certificate/link to CA DMV registration
  - Enhanced roadside presence through multi-agency coordination
  - Freight contractor/facility requirements
- Implementation phase-in starting in 2023







### HD I/M Implementation: Proposed Program Phase-In Approach

- First Phase Begins January 1, 2023
  - High emitter vehicle screening
  - Vehicle owners establish accounts in HD I/M database by July 1, 2023
- Second Phase Begins July 1, 2023
  - Enforcement of compliance certificate requirements starts
  - DMV registration holds for California registered vehicles start
- Third Phase Begins January 1, 2024
  - Periodic testing starts



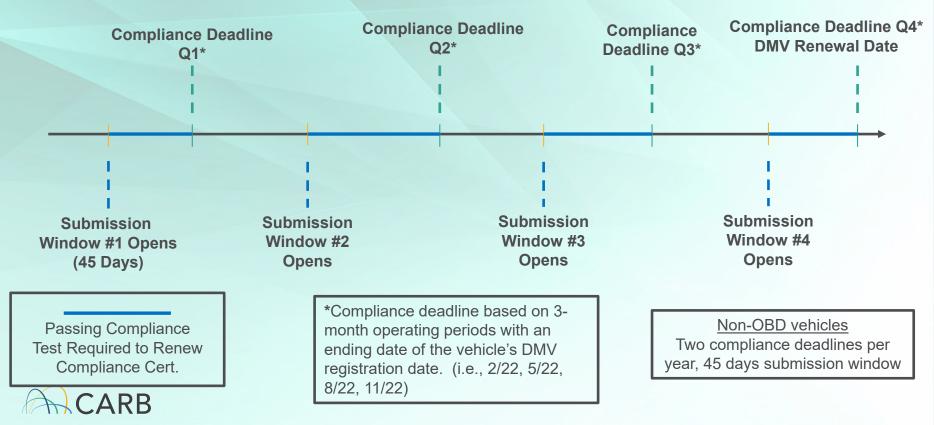
### **Proposed Periodic Inspection Frequencies**

- OBD-equipped vehicles: 4x per year
  - Passing test within 45 days of submission deadline

- Non-OBD vehicles: 2x per year
  - Passing test within 45 days of submission deadline

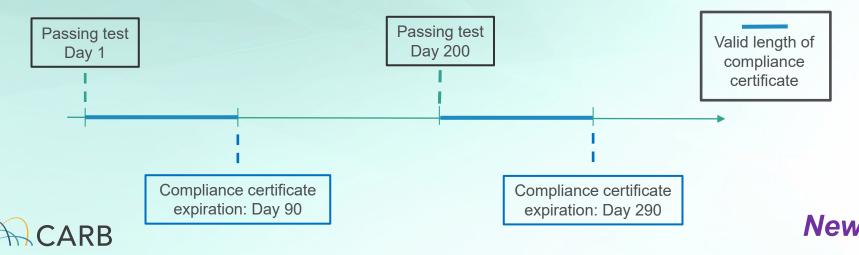


## Periodic Inspection Schedule: Program Vision OBD-Equipped Vehicles



## **Alternative Periodic Testing Option**

- Alternative submission method for fleets that may not operate in CA on a consistent basis
- Passing test submission grants a 90 day compliance certificate from date of successful submission
  - 180 days for non-OBD vehicles



### **Proposed Periodic Inspection Flexibilities**

- Low-use vehicle:
  - Operates less than 1000 miles per year
  - Annual data submission
  - Passing test within 90 days of submission deadline
- Partial year registration vehicle
  - CA vehicles in DMV partial registration year program that operate no more than 6 months out of a given compliance year
  - Annual data submission
  - Passing test within 90 days of submission deadline
- Out-of-state motorhomes exempted New
- Option to obtain a 5-day temporary permit once a year to exempt a vehicle from requirements *New*
  - Expanded from 3 days



### OBD Vehicle Compliance Testing: Proposed Options

- CARB-certified continuously connected remote OBD device (CC-ROBD): telematics
- HD I/M-approved tester using a CARB-certified noncontinuously connected remote OBD device (NCC-ROBD)
- Assessing potential for additional testing options
  - CARB-certified NCC-ROBD devices at designated locations in CA (i.e., truck stops, etc.)
  - Referee network
    - Could inspections be performed remotely through video/cell phone application? - New
    - Allow for convenient way for tests to be performed anywhere?



### **Proposed Non-OBD Vehicle Compliance Testing**

- Testing requirements
  - SAE J1667 opacity test (Diesel only)
    - Alternative fuel vehicles excluded from opacity test New
  - Emissions Control Equipment Inspection
    - Visual/functional inspection of vehicle's emissions control components
      - Now combined in draft reg text as vehicle emissions control equipment inspection - New
      - Ensure emissions related components are in their certified configurations
- Testing required to be performed by a HD I/M approved tester



### **Proposed HD I/M-Approved Testers**

- Approved individuals who may perform OBD/non-OBD vehicle compliance testing
  - Testers not limited to CA, can be based anywhere
- Online training course required to demonstrate competency with program requirements and testing methods
  - Approximately one day to complete
  - To be completed every two years
  - One-time challenge exam offered in lieu of training course
- Testers to register with CARB and submit vehicle compliance data through their registered account



# Notable Modifications to Draft Regulatory Text





### Summary

- Reorganized to present more clearly the requirements for each regulated entity
- Expanded detail for roadside emissions monitoring, HD I/M-approved testers, and freight contractor/facility requirements as previously mentioned
- Updates to device requirements and certification process
  based on stakeholder feedback from previous meetings



### Proposed Requirements for Vehicles Detected by a Roadside Emissions Monitoring System OBD-Equipped Vehicles:

- A PM emissions measurement that would correspond to exceeding the equivalent OBD trigger threshold for illuminating the MIL
- A NOx emissions measurement that would correspond to exceeding the equivalent OBD trigger threshold for illuminating the MIL

#### Non-OBD Vehicles:

A PM emissions measurement that would correspond to exceeding the equivalent smoke opacity limits



### Proposed Freight Contractor Specific Revisions Requirements

- Freight contractors shall verify compliance for any fleet or vehicle hired or dispatched in CA and keep records
- Shippers, brokers, receivers, motor carriers or any other intermediary parties will need to keep:
  - Compliance certificates of fleets or vehicles dispatched
  - Transactions and agreements between shippers, brokers, and motor carriers
- Applicable freight facilities will include <u>only</u> ports and intermodal railyards and will be required to:
  - Attest that only compliant vehicles will enter and operate on their property; or
  - Maintain records of all vehicles that enter their property for which compliance cannot be verified
- Vehicle owners and drivers must retain the following information in the vehicle:
  - Documentation about the hiring entity
  - Copy of contract with hiring entity



### **Proposed Revisions to OBD Device Requirements**

- Providing vendors flexibility to choose which OBD protocols (e.g., SAE J1939 or J1979) their devices support
  - ROBD devices may support one or more OBD protocols
  - ROBD devices are no longer required to be capable of supporting all OBD protocols
  - Upon adoption of the SAE J1979-2 protocol, ROBD tools supporting SAE J1979 shall also meet the requirements of the SAE J1979-2
  - Enhanced cybersecurity



Specific Revisions

### Reducing Complexity of OBD Devices and Certification Process

- Removal of CC-ROBD key event detection requirements
  (data submission triggers)
  - Device power loss, MIL status change, E-VIN/Engine SN/CAL ID/CVN change, change in readiness status change, GPS notification
- Reduced testing requirements associated with device field testing
  - Minimum 100 vehicles per NCC-ROBD OBD protocol
  - Minimum 100 data submissions/30 vehicles per CC-ROBD OBD protocol
  - Previously had proposed up to 1000 vehicles for testing



### Potential Concepts for Compliance Assistance for Small Fleets





### **Compliance Assistance Program Concepts**

### Objectives

- Develop options to assist small fleets in complying with HD I/M and effectively repairing their vehicles
- Expediting repairs = Reducing excess emissions
- Enable small fleets to stay in business
- Potential concepts
  - Repair time extension for small fleets
  - Zero-emission truck incentives
  - Loans to purchase extended warranty



### **Repair Time Extension Concepts**

- Repair time extension program
  - Eligible fleets can apply for additional time to repair their vehicles
  - Lengthen the repair timeframe from 45 days under current proposal to 90 days if determined more time is needed
  - Fleets allowed to continue to operate their vehicles during this period
  - Benefit: Allow more time for fleets to repair their vehicles
- Eligible fleets <=3 trucks



### **Repair Time Extension Concepts (con't)**

- Vehicle purchase time extension program
  - Eligible fleets can apply for additional time up to 90 days to purchase new or newer truck to replace the truck needing repair
  - More time may be granted if proof is provided showing longer vehicle acquisition time is needed
  - Must report to CARB intent to purchase and provide documentation to demonstrate good-faith effort, e.g., dealer's quote for vehicle purchase, etc.
  - Fleets allowed to continue to operate their current vehicles during this period
  - Benefit: Allow more time for fleets to locate vehicle and to secure funds needed for vehicle purchase
- Eligible fleets <=3 trucks



### **Zero-Emission Truck Incentives**

- There are opportunities for fleets to transition to zero-emission vehicles
  - Commercially available zero-emission trucks and buses cover a wide variety of vocations and duty cycles
  - Manufacturers are offering more than 100 different ZEV truck and bus configurations from Class 3 through Class 8
  - Some vehicles available today include delivery vans, school buses, refuse trucks, cutaway shuttles, terminal tractors, and passenger vans

















### **Existing Zero-Emission Incentive Programs**

- HVIP, Moyer, truck loans, and community air protection (CAP)
- Benefit: Reduce cost hurdle to transition to zero-emission trucks
- Kick-off workshop on the Fiscal Year 2021-22 Funding Plan: Date: Tuesday, March 30, 2021
   Time: 9:00 a.m. to 1:00 p.m. (PT)
   Location: Webinar/Teleconference
- Meeting notice link: <u>https://content.govdelivery.com/accounts/CARB/bulletins/2c0f7e9</u>
- Zoom webinar registration link: <u>https://us02web.zoom.us/webinar/register/WN\_WE07FARsQmOvywOjDAE\_Jg</u>



### **Next Steps**





### **Next Steps: HD I/M Development**

- CARB staff seeks your feedback
  - Staff is available for follow-up meetings
    - Contact information on next slide
- Additional HD I/M workgroup meetings and workshops throughout 2021
  - Next meeting expected in June 2021
- Board hearing: December 9-10, 2021
- Implementation: phase-in starting in 2023



### For More HD I/M Program Information

- Visit CARB's website at: <u>https://ww2.arb.ca.gov/our-</u> work/programs/heavy-duty-inspection-and-maintenanceprogram
- Subscribe to receive HD I/M email updates at: <u>https://public.govdelivery.com/accounts/CARB/subscriber/new?topic\_id=hdim</u>
- Contacts:
  - Krista Fregoso at Krista.Fregoso@arb.ca.gov
  - James Goldstene at <u>James.Goldstene@arb.ca.gov</u>
  - For compliance assistance concepts: Bob Nguyen at

CARB Bob.Nguyen@arb.ca.gov

## **OPEN DISCUSSION AND Q & A**

### Options to ask questions:

- Use Zoom's "raise hand" button in the webinar window. Staff will unmute you.
- Type your question in Q&A in the webinar window.
- For those who joined via a conference call, press #2 to "raise hand."



