



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

**Draft Proposed HD I/M Regulatory Concepts:
Compliance Requirements**

February 22, 2021

Request for Alternatives

- Pursuant to SB 617^[1] CARB welcomes public input on alternatives to the draft proposed regulatory HD I/M concepts^[2]
- In particular, CARB encourages public input on alternative approaches that may:
 - Yield the same or greater benefits than those associated with the proposed regulation, or
 - Achieve the goals at a lower cost

[1] Under SB 617:

http://dof.ca.gov/Forecasting/Economics/Major_Regulations/SB_617_Rulemaking_Documents/documents/Section%202000%20ISOR%201%20sb_617_bill_20111006_chaptered.pdf

See also the Department of Finance's implementing regulations CCR Title 1, Division 3, §2000-2004

[2] Proposed Regulatory Concepts:

https://ww2.arb.ca.gov/sites/default/files/classic/msprog/hdim/meetings/20201217_draft_hdim_reg_concepts.pdf

Request for Alternatives (cont.)

- Please submit:
 - Associated cost/benefit information and data sources to enable comparison of economic impacts
 - A clear description of the basis for any cost calculations
- Deadline for submission: March 10th, 2021
- Submit via email to Phuong Ho at Phuong.Ho@arb.ca.gov

Discussion Topics

High Emitter Detection

Inspection Procedures

Violation Notices and Resolution

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Violation Notices and Resolution

Roadside Emission Monitoring

- Goal: Detect high-emitting vehicles on California roadways to flag them for further testing and repair
- Emission Screening Devices: Roadside sampling systems meant to measure emissions during normal operation
- Screening for NOx and PM



High Emitter Detection

- If a CARB roadside emissions monitoring system detects a vehicle that is likely exceeding NOx or PM standards, the vehicle owner may be required to prove emissions compliance.

OBD Equipped Vehicles

Tail pipe emission measurements that correspond to exceeding the OBD Trigger threshold.

Non OBD Equipped Vehicles

Tail pipe emission measurements that correspond to exceeding the smoke opacity limit or appropriate NOx threshold.



Discussion:

Roadside Emission Monitoring & High Emitter
Thresholds

Discussion Topics

High Emitter Detection

Inspection Procedures

Violation Notices and Resolution

Inspection Procedures

- Inspectors, referees, and HD I/M approved testers conduct visual and functional inspections

Visual Inspection	Functional Inspection
Presence and proper configuration of emission control components and legibility of applicable labels	Proper operational status of vehicle, engine, and emission control components

Visual Inspections

Verification of:

1. Any emissions-related components for a particular vehicle/engine
2. The presence and legibility of the emission control label
3. The malfunction indicator light (MIL) status
4. The mileage as indicated by the vehicle's odometer or hours as indicated by a PTO meter



Functional Inspections

Proper operation of:

1. The emission control components
2. The malfunction indicator light (MIL)
3. Applicable aftermarket parts



Tests:

- SAE J1667
- OBD Data Collection





Discussion: Inspection Procedures

Discussion Topics

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Violation Notices and Resolution

Initial Enforcement Mechanisms

- If vehicle found in violation, registered owner may receive:
 - A) Notice to Correct:
 - 45 days (75 days for AG)
 - No penalty, but proof of correction required
 - B) Citation:
 - Penalty and proof of correction required
 - Compliance Certificate withheld until citation is cleared

Notice to Correct (NTC)

- NTC may be issued for, but not limited to:
 - Operating in CA without a compliance certificate
 - Submittal of inaccurate data to electronic reporting system
 - Vehicle operating while MIL illuminated and/or failure to meet the OBD passing criteria
 - Missing, obscured, or illegible ECL
 - Failure to meet OBD or opacity data submission
 - Failure to meet passing criteria for OBD or opacity testing, following a successful submission

Citations

- Citations may be issued for, but not limited to:
 - Failure to submit passing OBD or opacity data on time
 - Refusal to submit to an inspection
 - Excessive Smoke
 - Tampering of emission control components
 - Submittal of fraudulent data
 - Failure to respond to an NTC
 - Hiring/dispatching a non-compliant vehicle
 - Operating in CA without a certificate, second offense

Enforcement Mechanisms (Cont.)

- Withhold Compliance Certificate
- Registration holds for CA vehicles
- Freight Contractor prohibited from hiring, dispatching, and/or allowing entry to facilities
- Vehicles found in violation may be subject to removal from service by CHP
- Administrative process that allows for a formal hearing
 - Pursuant to CARB's Administrative Hearing Regulation

Freight Contractors

- Freight Contractors may include but are not limited to, shippers, receivers, carriers, brokers, facilities, or any other intermediary parties.
- Freight Contractors would be required to ensure vehicles have a CARB compliance certificate.
- Freight Contractors that are dispatching vehicles would need to check and report compliance status of every vehicle dispatched.
- Facility operators would need to report all vehicles entering facilities or turn away non-compliant vehicles from their facilities.

Demonstration of Correction

- For both NTC and Citations, owner must demonstrate correction by submitting documentation.
- May include, but not limited to:
 - Repair invoices (Photos/ receipts/ work orders)
 - Passing test results (Opacity/ OBD)
 - Referee verification
 - HD I/M reporting and compliance certificate

For More HD I/M Program Information

- Visit CARB's website at: <https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program>
- Subscribe to HD I/M email updates at:
https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=hdim
- Contacts:
 - Krista Fregoso at Krista.Fregoso@arb.ca.gov
 - James Goldstene at James.Goldstene@arb.ca.gov

Next Steps: HD I/M Development

- Voluntary HD I/M development survey extended through February 26, 2021
 - https://erg.qualtrics.com/jfe/form/SV_1GGyVkQjwqgAlmJ?C=1
 - Conducted by CARB's contractor, Eastern Research Group – responses anonymized
 - Effort to gather information on current usage of telematics services, vehicle repair and maintenance practices and associated costs
- Additional HD I/M workgroup meetings and workshops throughout 2021
- Board Hearing: December 9-10, 2021
- Implementation: Phase-in starting in 2023



Open Discussion

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."