

OTC Mobile Sources Committee Overview

OTC and MANEVU Stakeholders' Meeting

April 22, 2024

Mobile Sources Committee

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OZONE TRANSPORT COMMISSION

Presentation Overview

MSC 2023 Charge

- ✓ Medium- and heavy-duty truck NOx.
- ✓ Tampering and aftermarket catalysts.
- ✓ Cross-committee coordination.
- ✓ Provide technical and policy support where needed.

Medium and Heavy-Duty Trucks

Update on Activities:

- Eastern Research Group is on contract to estimate the emission benefits of heavy-duty truck inspection and maintenance:
 - Estimate the NO_x and PM_{2.5} emissions benefit of MHD inspection and maintenance programs;
 - Incorporate data into MOVES and run the MOVES model to estimate changes in the inventory;
 - Monetize the health benefits associated with the reductions;
 - Estimate truck repair costs.
 - A draft report is expected in June.

Tampering Update

Update:

- The MSC is researching commercially available on-board diagnostic (OBD) based tampering detection tools.
- OTC states will pilot an OBD-based tampering detection tool.
 - Test heavy-duty trucks at roadside and at dealerships.
 - Focus on classes 4-8 where little data on tampering frequency exists.

Tampering Update (Continued)

Update:

- Tampering authority memo:
 - The tampering workgroup finalized its tampering authority memo.
 - The memo provides common sense recommendations on how states can improve their authority to enforce against tampering.
 - Ex. Allow for OBD based tools for emissions testing.

Cross Committee Collaboration

Update

- The MSC sent all modeling results for mobile source regulations to the Modeling Committee.
- Working with the Modeling Committee to incorporate emissions reductions into modeling platforms.
- Since last discussion, EPA's light- and medium- duty multipollutant and HD Phase 3 regulation have been finalized.
 - May conduct additional analysis to assess the emissions benefits of these programs.

As Resources Allow: Aftermarket Catalyst Model Rule Update

- The MSC updated a 2014 OTC aftermarket catalyst model rule.
- Changes are:
 - Added definitions;
 - Added provisions NY codified in 2022 on matching CARB certified catalysts to federally certified vehicles;
 - Require manufacturers to provide warranty information;
 - Added specifications on the placement of converters;
 - Added record keeping requirements for manufacturers;
 - Disallowed used, recycled, or salvaged catalysts.

Aftermarket Catalyst Update (continued)

- Requesting review from OTC Stakeholders;
- Posted on the OTC website with the OTC/MANEVU stakeholder meeting materials;
- Taking comments until May 3rd.

As Resources Allow: Biodiesel Emission Factors

- The MSC evaluating whether the MOVES model accurately reflects biodiesel emissions.
 - MOVES assumes post-2007 engines running on biodiesel blends emit the same amount of NO_x as engines running on ultra low sulfur diesel fuel (ULSD).
 - Recent studies show engines running on biodiesel blends emit higher amounts of NO_x than engines running on ULSD.
 - The MSC may recommend a re-evaluation of the emission factors for biodiesel in the MOVES model.

Summary and Discussion

Medium- and Heavy-duty Trucks

Oversaw study of the emission benefits of MHD IM programs.

Anti-Tampering

Finalized tampering authority memo.

Evaluating options to pilot commercially available tampering detection tools.

Cross Committee Collaboration

Coordinating with the Modeling Committee on modeling and NOx reductions from the federal and California rules.

Technical Support on Policy Where Needed

Requested comment from stakeholders on updated aftermarket catalyst model rule.

Evaluating the need to re-assess biodiesel emissions assumptions.



Thank you!

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