

Mobile Source Committee Update

OTC Annual Meeting

May 24th, 2012

Alexandria, VA



OZONE
TRANSPORT
COMMISSION

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Overview

1. Nonroad Idling Model Rule
2. Heavy Duty Diesel I/M
3. Federal Measures
4. Aftermarket Catalysts
5. Ongoing Efforts

Nonroad Idling Model Rule

- Goal: Reduce emissions by decreasing unnecessary idling from nonroad engines
- Nonroad diesel is a major source of:
 - Oxides of Nitrogen (NO_x)
 - Fine Particulate Matter ($\text{PM}_{2.5}$)
 - Toxic Air Pollutants
- Many states prohibit unnecessary idling of highway diesel trucks
- A few (CT, MA, NJ, RI) prohibit it for non-road equipment



Nonroad Idling Emissions

- Different data sets produce a range of idling rates
- Using the range of rates, if all unnecessary idling in the OTR is reduced, the following emission reductions would result:

Data Source	Idling Rate	NOx(tpy)	HC(tpy)	PM(tpy)
John Deere	42%	8,188	4,172	803
CARB	7.2%	1,474	751	145

Nonroad Idling: Stakeholder Review




- Initial Model Rule posted on 9/2010
- Evaluated and incorporated stakeholder comments
- Drafted an accompanying guidance document
- Stakeholder Activities
 - Brought to Fall '10, Spring '11, Fall '11, and Spring '12 Committee Meetings
 - Hosted stakeholder calls with:
 - Associate General Contractors (AGC)
 - RRI Energy
 - EMA, AGC, and other Manufacturers
 - Associate General Contractors of New Jersey (AGC-NJ)
 - Marcellus Shale Coalition and Shell
 - Incorporated stakeholder comments

Diesel I/M





- Lead: NESCAUM Heavy Duty Workgroup
- **Goal:** To obtain SIP Credit for I/M Programs
- 2015 Preliminary Results in Emission Reductions of:
 - Oxides of Nitrogen (NO_x) ~10 tons/day
 - Fine Particulate Matter ($\text{PM}_{2.5}$) ~5 tons/day
- Future Activities:
 - Work with OTAQ
 - Determine if additional data is needed



Status of OTC Federal Measure Asks

OTC Request	Action	Status
Mar 2009	Ships - Emission Control Area	
June 2009	Catalyst Replacements (April 2011 – OTC Program Design Recommendation)	
Nov 2009	Onroad Mobile Gasoline and Diesel Sources (November 2010 Statement on Tier 3)	
	Locomotive Engines	1/2
	Marine Engines	1/2

Status of Federal Measure Commitments

Date	Action	Status
Dec 2010	RFS2 Anti-Backsliding	
2011	E15 Partial Waiver Decision MY 2001-2006 Motor Vehicles	
2012	Heavy Duty Truck Greenhouse Gas Standards	
2014	Clean Vehicles 75 ppb Ozone NAAQS Regulatory Impact Analysis	

Aftermarket Catalyst Recommendation

- EPA's policy was set in 1986 and has not been updated to reflect improvements in technologies & emission standards
- OTC submitted a finalized recommendation for an updated catalyst program to EPA in April, 2011
- Rough estimated reduction of 22,000 tons of NO_x in the OTR from the recommendation



Next Steps

- In-Use Fleet
 - Aftermarket Catalyst Recommendation
 - Rebuild Kits for Locomotives and Marine Engines
 - Diesel I/M
 - Compiling Success Stories
- New Vehicles / Engines
 - Tier 3 / Clean Gasoline
 - Pleasure Craft

Next Steps

- Emissions Inventory Analysis w/ 2020 MOVES
- Goods Movement
 - Build off TCI Work
- Lightering
- Other Transportation Measures