



MDE Maryland Department of the Environment

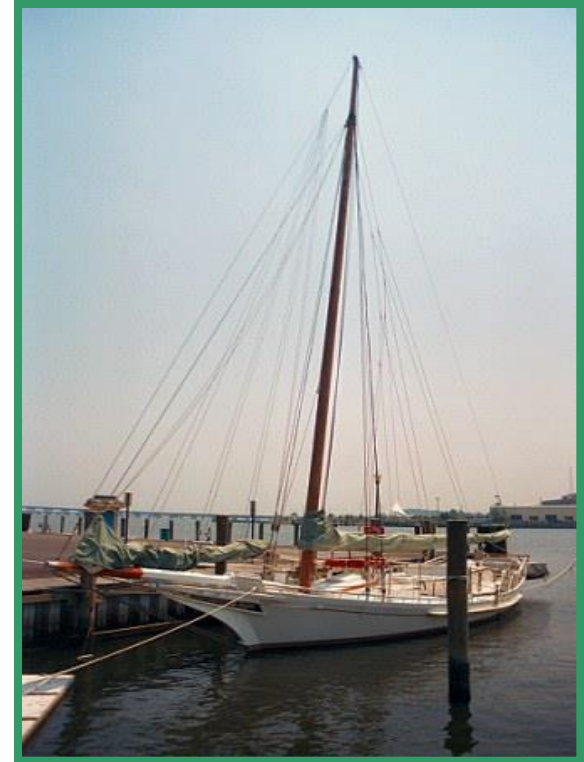
Common Sense Measures MDE Can Take to Reduce Exposure to Ozone

Air Quality Policy and Planning



Control Measures...

- Mobile
- VOC
- Area
- New NO_x EGU Regulation
- Point
- Non-Road
- Voluntary and Innovative
- Energy Efficiency and Renewable
- OTC Measures



Aftermarket Catalysts

- OTC has requested EPA update the aftermarket catalyst policy that was last updated in 1986.
- In its absence, the OTC has developed a model rule that would require all aftermarket catalyst sold to be CARB certified.
- CARB certified catalysts provide better emission benefits than federally certified catalysts.
- New York and Maine have adopted an aftermarket catalyst program requiring CARB certified catalysts.
- Maryland is in the process of adopting an aftermarket catalyst regulation based on the OTC model rule
- OTR only – 14,983 TPY NO_x reduction and 3390 TPY VOC reductions



CAL LEV/ZEV

- The California Low Emission Vehicle regulation (CAL LEV) was adopted in 2007 and became effective with the 2011 model year.
- The program adopts the strictest vehicle emission standards allowed by law.
- In 2012 the regulation was updated to CAL LEV III and will further strengthen the reductions of the program starting with the 2017 model year so that by 2025 light-duty vehicles will emit 75% less smog-forming pollutants than the previous standard.
- Along with CAL LEV, Maryland adopted the Zero Emissions Vehicle Mandate (ZEV).
- Vehicle manufacturers are required to sell an increasing percentage of their vehicles as zero, or near-zero emission vehicles.
- Battery electrics, plug-in hybrids, and fuel cells qualify for ZEV credits under this program that are used to satisfy the requirements.
- Maryland has a goal of having 60,000 ZEVs on the road by 2020. ZEVs operating on electricity or hydrogen produce no direct tailpipe emissions and can greatly reduce ground level ozone from the mobile sector.



OTC Enhanced Smartways

- Started in 2004, SmartWay is an EPA program that reduces transportation-related emissions by creating incentives to improve supply chain fuel efficiency.
- The SmartWay Program is a public-private initiative between EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies.
- Its purpose is to improve fuel efficiency and the environmental performance of the goods movement supply chain.
- SmartWays is a voluntary program that highlights the available technology and vehicles that can improve fuel consumption. Maryland continues to encourage truck and fleet owners to utilize the SmartWay program and refers them to the EPA site for more information
- 2.5% mobile NOx reduction across entire domain



OTC Heavy Duty I & M

- EPA currently offers no SIP credit for heavy-duty I/M programs.
- This limits the desire to fully implement current programs, which rely heavily on smoke opacity tests, or to develop more accurate OBD-based programs.
- The OTC and NESCAUM are working with the EPA to obtain SIP credits in hopes that states may implement more stringent programs.
- Maryland currently has a roadside opacity test the state police conduct. Diesel trucks and buses with a GCW or GVWR of over 10,000 lbs are subject to testing.
- OTR only – 9326 TPY NOx



OTC On Road Idling

- The OTC has developed a model rule for restrictions on idling for Non-road Diesel Engines.
- The model rule is designed to limit unnecessary idling while allowing the vehicle to still function as designed.
- The idling limit was set at a range of 3-5 minutes except in situations that warrant exemptions.
- Maryland has not adopted the Non-road idling rule.
- OTR only – 19,716 TPY NO_x and 4,067 TPY VOC



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Additional measures (MDE)

- **OTC Ultra Low NOx Burners**
 - Ultra Low NOx Burners (OTR only – 3669 TPY NOx reduction)
- **NOX RACT Updates**
 - NOx regulation hearing scheduled for January 20, 2015
- **Distributed Generation/Uncontrolled Generators**
 - Minor amendments to DG regulation – CSP reporting requirements – OTC Amendments in 2012
- **OTC Consumer Products**
 - Latest OTC Consumer Product Rule (OTR only - 9729 TPY VOC reduction)
- **OTC AIM**
 - Latest OTC AIM Rule (OTR only - 26506 TPY VOC reduction)
- **OTC Autobody Refinishing**
 - Latest OTC Autobody Refinishing (OTR only – 7711 TPY VOC reduction)



Questions?

