

Insuring that Aftermarket Catalytic Converters Work



MWAQC Meeting – Karl Munder, MDE – December 16, 2020



Purpose of Presentation

- Maryland briefed MWAQC TAC on its new Aftermarket Catalytic Converter(AMCC) regulation in July 2020
- EPA policies have not been updated and aftermarket converters now being sold result in significant emission increases
 - MD,CO, CT, MA, ME, NY, and NJ are only adopting a regulation because of the EPA failure to update its aftermarket catalyst program
- Maryland was asked to brief MWAQC during the September 23rd meeting
- During discussion on the 23rd, MWAQC decided to revisit the topic during the December meeting
- This presentation will provide an update on recent activities and provide more details on how a regional AMCC policy will help with achieving the ozone standard



Two Recent Activities

- Over the past month two important things have happened
 - Virginia, Maryland and the District of Columbia have begun discussions on regional adoption of the rule
 - Maryland is in the process of publishing the regulation for comments and adoption
 - DC has indicated an interest in adopting a similar regulation
 - VA is interested but has numerous challenges, including prohibitive legislation affecting its ability to move forward with adopting a similar regulation
 - EPA has begun to take action



Recent EPA Action

- On November 23, 2020 EPA issued a pre-publication copy of a Federal Register notice that discusses a potential for a reinvigorated effort to update the EPA 1986 AMCC program to insure that AMCCs actually work and reduce emissions
- Timeframe uncertain
 - This effort will become much clearer as the EPA transition takes place
- This program is much better if required by EPA
 - Maryland will move slowly in adopting the AMCC rule with the hope that EPA solves the problem
 - The Maryland regulation does include a sunset provision should EPA adopt an effective federal program



Region has Made Great Strides Towards Meeting the 70ppb Ozone Standard

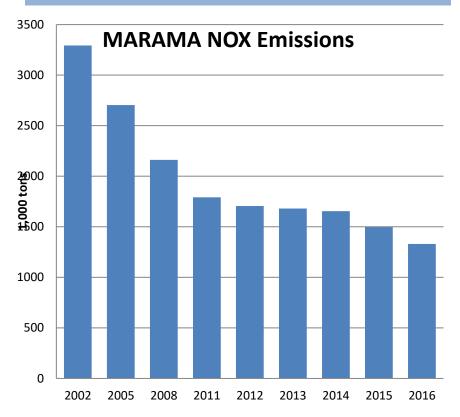
- A significant decrease in the number of bad ozone days for Maryland and the MD-DC-VA area starting in 2010
 - This has happened even as the number of days exceeding 90
 Degrees have increased
- The MD-DC-VA region has been flirting with achieving the 70 ppb Ozone Standard for the past 5 - 7 years
 - The level has been hovering between 71ppb 72ppb
- A regional AMCC policy could be the strategy that allows the area to achieve its goal of attaining the ozone standard



Changing Chemistry ... Some Good News

- In the Mid-Atlantic, NO_x
 reduction efforts seem to be
 returning unexpected dividends
- We know that regional NO_x reductions will clearly reduce ozone levels
- It appears that in 2017, enough NO_x has been taken out of the system that the chemistry has changed
 - We now get more ozone reduction per every ton of NO_x we reduce compared to 2000







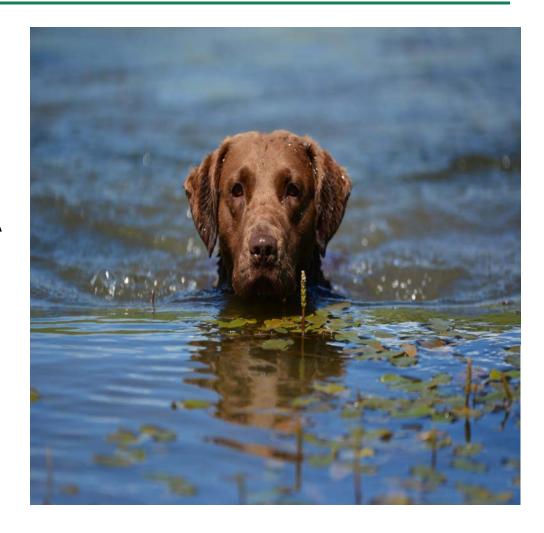
Benefits of an Updated AMCC Regulation

- CARB AMCCs would offer lower cost options for motorists, compared to OEM converters
- Region would see a reduction in locally produced NOx and other ozone forming emissions to assist with meeting the federal ozone standard
- Provides consumers assurance that a vehicle's emissions control system will be functioning properly after a converter replacement
- Supported by manufacturers ... Manufacturers of Emission Controls Association (MECA) and Autocare
- Provides momentum for other neighboring states to adopt



Reductions From Regional CARB AMCC

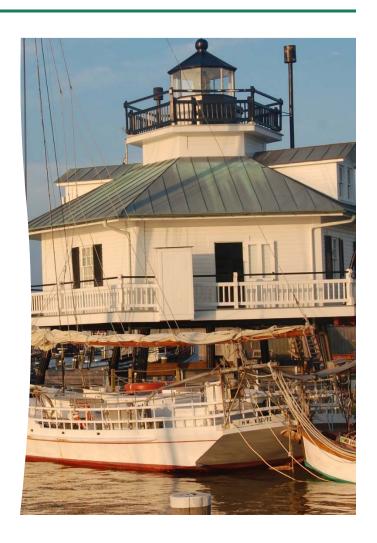
- Potential for large regional emission reductions
- Approximately 3.5 tons per day in the MD-DC-VA region
- Compared to other options ... this is a large NOx reduction opportunity





Overview of Maryland's AMCC Regulation

- Requires a CARB AMCC for all 1996 and newer model year vehicles
- No used, recycled, or salvaged converters allowed
- Installers, parts manufacturers, and distributors as responsible entities
- Non-CARB parts can still be shipped to an in-state distribution center/warehouse, through the state, or sold out of state
- Regulation takes effect on October 1, 2023





Sunset Provision

 This regulation expires when the United States Environmental Protection Agency adopts a regulation or enforcement policy that provides for the sale, supply, advertisement, or installation of an AMCC that is able to reduce motor vehicle emissions at the same or greater level





Recap

- A coordinated regional AMCC program is best in for achieving the highest amount of regional NOx reductions
- The MDE regulation allows for a more robust product to be installed over a wider range of vehicle model years
- Updated program will help jurisdictions to achieve the 2015 Ozone standard
- This is an automotive aftermarket part regulation





Conclusions ... Action

- Maryland would like to see the AMCC program adopted throughout the DC-MD-VA nonattainment area
 - If not by EPA, then through state regulation
 - We hope many MWAQC members will support this
- Has multiple positive drivers
 - DC-MD-VA area is so close to attainment
 - Significant NOx reductions
 - Cost effective emission reduction strategy with added consumer protections
 - Has vocal support from manufacturers
 - Also being considered or adopted in many other OTC states
- We hope that MWAQC will support continued collaboration between MD, VA and DC on this issue
 - To be implemented through a federal program
 - If not through a federal effort MD, VA and DC should consider to pursue options for local implementation including regulations, enforcement and other policies



Questions

