

Aftermarket Catalytic Converter Regulation



BRTBs Joint ICG/Technical Committee Meeting – Karl Munder, MDE August 4, 2020





- Thirty years ago there was federal guidance on Aftermarket Catalytic Converters (AMCC) to ensure that emissions control systems remained effective
- That guidance lapsed, so now ... there are no real prohibitions on the kind of AMCCs that can be purchased and installed
- EPA shifted its focus to anti-tampering
- Several states have moved forward with rules to address this problem. Other states in the queue ... update later
- MDE is pushing to attain the ozone standard and therefore believes it is best to move ahead with a MD specific regulation



- The catalytic converter is a key component of a vehicle's emissions control equipment
- When converters fail, repair shops have two options for installing a replacement converter
 - Original equipment manufacturer (OEM) ... very good
 - Aftermarket catalytic converter (AMCC) ... not always so good
- Due to low quality of some AMCC, states and stakeholders have called on EPA to amend its federal AMCC policy
 - AMCC technology is lagging behind today's emissions control technology
 - California Air Resources Board (CARB) has demonstrated the ability of a state program to ensure AMCCs effectively reduce emissions
- A strong federal program is preferable to a patchwork of state rules



- MD and other states are getting close to meeting the 2015 ozone standard
 - Because of this, states are working hard to find reductions and have been pushing EPA for an updated AMCC program
 - Ozone Transport Commission (OTC) developed a model rule based on the CARB AMCC program for states to consider adopting
- EPA has shifted focus from AMCCs to broader anti-tampering measures
 - This is good ... but
 - It does not address AMCCs adequately
- An effective AMCC program can provide meaningful NOx reductions at a time when MD and other states are getting very close to meeting the 2015 ozone standard



Pros and Cons

• Pros

- CARB AMCCs offer lower cost options for motorists, compared to OEM converters
- MD would see a reduction in locally produced NOx and other ozone forming emissions to assist with meeting the federal ozone standard
 - Estimated regional and local daily NOx reductions are 24 and 2 tons, respectively
- Provides consumers assurance that a vehicle's emissions control system will be functioning properly after a converter replacement
- The incremental cost of a CARB AMCC (approx. \$200) is offset by enhanced warranty coverage
- Supported by automobile parts manufacturing industry ... Manufacturers of Emission Controls Association (MECA) and Autocare
- Provides momentum for other states to adopt



Pros and Cons

- Cons
 - Right now, some of the converters that don't work well are cheaper than the converters that will be required
 - Is still best implemented nationally by a federal effort
 - Is complicated to enforce

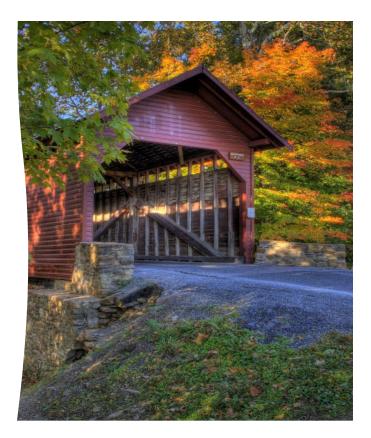




- Started in 2015 Proposed regulation was based on the OTC model rule
 - MDE delayed regulation adoption since EPA appeared to be moving forward with an update to the federal AMCC program
- 2015-2019 During the interim, MDE and OTC pushed EPA for federal action
 - EPA started a process with manufacturer support and shared some draft material
 - Despite multiple discussions, ultimately no new federal program was produced
 - Ozone improved in MD, but more NOx reductions are needed to attain
- 2019/2020 Due to lack of EPA progress, MDE updated the draft regulation and is moving forward with adoption



- Is the basis for MDE's AMCC regulation
- Developed by CARB due to ineffectiveness of federal AMCC program
- Requires converter to allow vehicle to meet its original emissions level
- Ensures OBD II system compatibility ... check engine light must stay out
- Does not allow used converters





CARB Overview ... continued

- CARB reviews test results from independent labs to certify converters
- CARB audits/tests converters to ensure they meet the standards
- Warranty of 50,000 miles/ 5 years covers converter, parts, and labor





Actions from Other States

- OTC states are moving forward with adopting the program
- Two OTC states (NY, ME) have already adopted the CARB AMCC program
- MD, NJ and CT are now working towards adopting a state AMCC rule. MA is studying issue and considering a regulation in the future

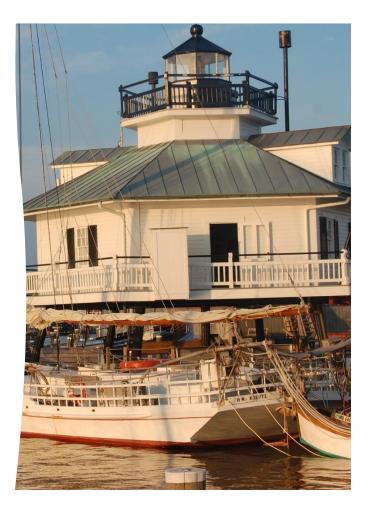


- In the absence of a national AMCC program, these state rules are supported by automobile parts manufacturers like:
 - MECA and Autocare
- CO adopted the CARB AMCC program along with its Clean Cars program, effective January 2021



Overview COMAR 26.11.20.07

- Requires CARB AMCC in Maryland for all vehicles, whether CARB or federal
- Prohibits used, recycled, or salvaged converters for all vehicles
- Establishes recordkeeping and reporting requirements



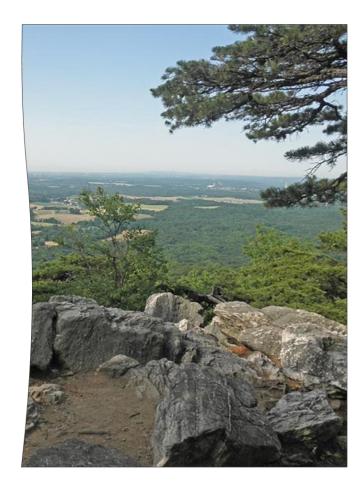


- This regulation applies to a person that produces, installs, sells, supplies, advertises, or offers for sale AMCCs on or after the effective date
- Non-CARB parts can still be shipped to an in-state distribution center/warehouse, through the state, or sold out of state
- Effective Date
 - January 1, 2024 (tentative)



Producer Requirements

- A producer shall provide:
 - An aftermarket catalytic converter motor vehicle application guide to installers
 - A means for the installer to contact the producer for technical assistance





Installer Requirements

- The installer must verify that the AMCC is specified for the motor vehicle using the producers guide
- The AMCC must be installed in the same location as the original equipment manufacturer catalytic converter



Record Keeping and Reporting

- Record Keeping Requirements
 - An installer shall retain records pertaining to the sale and installation of AMCCs for a minimum of 4 years from the date of installation
- Reporting Requirements
 - A producer shall submit to the Department semi-annual warranty reporting on AMCCs sold in the State





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





- June 2020
 - Discussion and approval by MDE's Air Quality Control Advisory Committee (AQCAC)
- Fall 2020
 - Approval from Division of State Documents
- Late 2020/ Early 2021
 - Notice of Proposed Action is released, and hearing is held
- July 2021
 - Regulation adopted, effective date of January 1, 2024





- A rule was proposed in 2015 based on the OTC model rule
- MDE did not move forward due to a potential for a federal rule update and industry initiatives. This did not happen, so MDE believes it is necessary to move forward with a state regulation
- The new MDE 2020 rule would allow for a more robust product to be installed over a wider range of vehicle model years





Questions

