



American Association of
Motor Vehicle Administrators

Automated Vehicles - Technical Assistance for North Carolina

Agenda item #12
February 28, 2020

OUR VISION

Safe drivers
Safe vehicles
Secure identities
Saving lives!



This discussion will be limited to:

ADS-equipped vehicles Levels 3, 4 and 5 and

The impacts of testing on your vehicle and driver programs

What information if any, does your state want to know and what data do you want to collect when level 3-5 vehicles are tested in your state?

- The test entity?
- The human test drivers?
- The test vehicles?

Testing entity – the manufacturers, system developers, universities, etc. responsible for testing the vehicle

What information does your state want to know and what data do you want to collect about testing entities?

- Name of manufacturer or other entity testing?
- Corporate physical and mailing addresses?
- Contact information of the program administrator or director?

Test Driver – Does your state want information about the drivers that are testing ADS-equipped vehicles?

Do you want to know:

- Name of test drivers?
- What type of license the test driver has?
- In what state or country is the test driver licensed?

Do you want to know:

- If the test drivers are employees, contractors, or other persons designated by the testing entity?
- What type of training the test drivers receive in the test vehicle and about the test vehicle?
- Do you want the training to be documented and a summary submitted to your state?
- Do you want any other information about the test drivers?
- Do you need authority to ask for this type of information?

Testing in Commercial Vehicles - Do you want to know if

- The commercial vehicle test drivers have a CDL and appropriate endorsements and restrictions for the vehicle they are testing?
- If the CDL test driver is located inside the vehicle? Outside the vehicle? or driving it remotely?
- If manufacturers and other entities are vetting test drivers like companies that hire CDL drivers are required to do?
- If the test vehicles are carrying a load and if it complies with current regulations related to the vehicle and load?
- What data do you want to collect?

Test Vehicles - What information if any, does your state want about the vehicles?

- Vehicle specific information such as year, make, model, VIN?
- Plate number and where it is registered?
- Vehicle type - passenger, commercial, or low-speed, etc.?

Do you want to know...

- Information about prior testing? Simulator, off-road, on-road in other states?
- The vehicle's Operational Design Domains (ODD)?
- If they will be testing during the day, night, weather conditions, or if they will be testing in a certain geographical locations, or will limit the testing to certain speeds?
- Know the routes they intend to use when testing?

Test Vehicles -

Do you want to know:

- If the ADS equipped vehicles comply with all applicable Federal Motor Vehicle Safety Standards?
- If the manufacturer has received an exemption from the FMVSS?
- If any federally required safety devices have been made inoperable?

- Do you want to know if vehicles are being testing in your state without a human in the vehicle?
- Do you want to know how the vehicle will be controlled if something goes wrong with a vehicle that does not have a human in it?
- Do you want to know if it can achieve a minimal risk condition?

Do you want to see:

- The manufacturer's safety plan for testing vehicles
- Evidence of the manufacturer's ability to respond to damages for personal injury, death, or property damage caused by a vehicle during testing. Evidence may be in the form as approved by the jurisdiction (e.g., an instrument of insurance, a surety bond, proof of self-insurance.)

Jurisdictions may want to determine:

- The information and the data they want to know and collect
- How will the information and data be collected and used, and by whom?
- Will it be voluntary or required?
- Is there legislative authority to obtain information and data?
Will amendments in laws and regulations be necessary?



Questions?