

LCB File No. R105-07

**PROPOSED REGULATION OF THE
DEPARTMENT OF MOTOR VEHICLES**

EXPLANATION – Matter in *italics* is new; matter in brackets ~~[omitted material]~~ is material to be omitted.

AUTHORITY:

A REGULATION relating to vehicle emissions; revising the provisions governing the operation of certain test stations; revising the provisions applicable to prescribed emission test procedure regarding light duty diesel vehicles; and providing other matters properly relating thereto.

Section 1. NAC 445B.589 is hereby amended to read as follows:

NAC 445B.589 Testing of light-duty motor vehicles powered by diesel engines: Procedure; certificate of compliance; effect of failure; lack of proper fuel cap. ([NRS 445B.785](#))

1. An inspector shall comply with the following procedure when testing a light-duty motor vehicle powered by a diesel engine:

(a) The test procedure must include, without limitation, a preparation phase, a tampering inspection phase and *with exception to vehicles referenced in subsection 4* an opacity test phase.

(b) In the preparation phase:

(1) The vehicle must be placed on a dynamometer, the transmission must be placed in neutral and the vehicle must be properly restrained to prevent any rolling motion.

(2) The inspector may place an auxiliary cooling fan into position approximately 12 inches in front of the cooling system of the motor vehicle.

(3) *The inspector shall verify the advertised manufacturer horsepower rating by:*

a. Inspecting a label affixed to the engine of the vehicle being inspected

b. Using reference documentation provided by the Department

(4) The inspector shall then affix a smoke opacity meter which has been calibrated and zeroed to the exhaust system of the vehicle according to the recommendations of the manufacturer of the meter. Vehicles with dual exhaust configurations must have the smoke opacity meter attached to the exhaust pipe displaying the highest observed opacity.

~~(4)~~ 5. If an exhaust removal system is used, it must be installed so that all of the exhaust from the vehicle being tested is passed through the smoke opacity meter.

(c) In the tampering inspection phase, the inspector shall visually inspect:

(1) All vehicles with a model year of 1981 or newer to ensure that all equipment for emission control which is listed on the manufacturer's emission label is present and appears to be operational; and

(2) All vehicles to verify the presence of a properly installed fuel cap.

(d) During the opacity test phase, the inspector shall:

(1) Verify that the vehicle is at normal operating temperature before beginning the test. If the vehicle has cooled down below its normal operating temperature during its placement on the dynamometer, it must be operated until its normal operating temperature is reached.

(2) Test ~~vehicles with varying engine sizes under the following speed and load conditions:~~

-	Speed	Load
Number of Cylinders	(4 miles per hour)	(1 horsepower)
4	40	7.0
6	40	15.0
8	40	30.0

The vehicle under a speed and load condition of 45 miles per hour at 30 percent of the advertised horsepower of the vehicle, except that the load condition must not exceed 100 horsepower. A variation in this testing requirement of plus or minus 5 miles per hour and plus or minus 1 horsepower is acceptable.

(3) Maintain the required speed and load condition on the vehicle being tested for 10 seconds. The engine opacity must be stored and printed at the end of the 10-second interval.

2. The inspector shall issue a certificate of compliance indicating the results of the test. The printout from the opacity meter must be provided with the certificate of compliance. The test is complete if the vehicle passes the tampering inspection phase and the results of the opacity test phase comply with the standards set forth in [NAC 445B.576](#). A vehicle which exceeds the opacity standards or which fails the tampering inspection phase must be considered to have failed the inspection and the inspector shall issue a certificate of compliance reflecting the failure.

3. A vehicle which fails the tampering inspection phase or the opacity test must be repaired and retested.

4. ~~[If a motor vehicle subject to the provisions of this section passes all portions of an inspection but has an improper fuel cap or no fuel cap, the owner or operator of the motor vehicle shall obtain a fuel cap which is in accordance with the specifications of the manufacturer of the vehicle. The inspector shall inspect the new fuel cap and certify its presence in a manner prescribed by the Department, and sign and date the failing vehicle inspection report beneath the fuel cap tamper description. Such a vehicle inspection report may be used as evidence of compliance.]~~ *Vehicles that are not capable of being operated on a single axle dynamometer due to full time all wheel drive and/or traction control systems are:*

a. Not required to undergo the preparation and opacity test phases pursuant to Nevada Administrative Code 445B.589.

b. Required to comply with the inspection phase pursuant to Nevada Administrative Code 445B.589.

Section 2. A new section within NAC Chapter 445B is hereby proposed to read as follows:

NAC 445B.XXX Connection to state electronic data transmission system for light duty diesel powered vehicles. (NRS 445B.785)

1. A test station that is licensed to inspect light duty diesel powered vehicles for emission compliance shall connect to the state electronic data transmission system through use of a Personal Computer with high speed Internet. A test station shall connect to the state electronic data transmission system no later than 3 months after the date on which the state electronic data transmission system is activated by the Department. The Department will notify each test station of the date the state electronic data transmission system is activated.