

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

LCB File No. R105-07

January 8, 2008

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

AUTHORITY: §1, NRS 445B.785.

A REGULATION relating to vehicle emissions; revising the procedures for testing the exhaust emissions of light-duty motor vehicles powered by diesel engines; and providing other matters properly relating thereto.

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

445B.589 1. An inspector shall comply with the following procedure when testing a light-duty motor vehicle powered by a diesel engine:

(a) ~~[The]~~ *Except as otherwise provided in this paragraph, the* test procedure must include, without limitation, a preparation phase, a tampering inspection phase and an opacity test phase. *If a vehicle cannot be operated on a single-axle dynamometer because the vehicle has full-time all-wheel drive or a traction control system, the test procedure is not required to include a preparation phase or 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 horsepower rating of the vehicle by:*

(I) Inspecting the label affixed to the engine of the vehicle by the manufacturer that indicates the horsepower rating of the vehicle; or

(II) If no such label is affixed, using documentation regarding the horsepower ratings of vehicles that is provided to the test station 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

Except as otherwise provided in this subparagraph, test the vehicle under a speed and load condition of 45 miles per hour at 30 percent of the horsepower rating of the vehicle, as verified in the manner set forth in subparagraph (3) of paragraph (b), but not to exceed 100 horsepower. The inspector may vary the speed condition by not more than 5 miles per hour and the load condition by not more than one horsepower.

(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~~

3. If the test procedure is required to include an opacity test phase pursuant to paragraph (a) of subsection 1, the printout from the opacity meter must be provided with the certificate of compliance.

4. The test is complete if ~~the~~ :

(a) The vehicle passes the tampering inspection phase ; and ~~the~~

(b) The results of the opacity test phase , if required pursuant to paragraph (a) of subsection 1, comply with the standards set forth in NAC 445B.576.

5. 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.]~~ 6. 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.]~~