

during the Administrator's evaluation will be corrected on production vehicles. Only paragraphs (f)(5) and (f)(6) of this section apply to diesel cycle vehicles and diesel cycle trucks where such vehicles and trucks are so equipped.

(1) A catalyst is replaced with a deteriorated or defective catalyst, or an electronic simulation of such, resulting in an increase of 1.5 times the NMHC standard above the NMHC emission level measured using a representative 4000 mile catalyst system.

(2) An engine misfire condition is induced resulting in exhaust emissions exceeding 1.5 times the applicable standards for NMHC, CO or NO_x.

(3) Any oxygen sensor is replaced with a deteriorated or defective oxygen sensor, or an electronic simulation of such, resulting in exhaust emissions exceeding 1.5 times the applicable standard for NMHC, CO or NO_x.

(4) A vapor leak is introduced in the evaporative and/or refueling system (excluding the tubing and connections between the purge valve and the intake manifold) greater than or equal in magnitude to a leak caused by a 0.040 inch diameter orifice, or the evaporative purge air flow is blocked or otherwise eliminated from the complete evaporative emission control system.

(5) A malfunction condition is induced in any emission-related powertrain system or component, including but not necessarily limited to, the exhaust gas recirculation (EGR) system, if equipped, the secondary air system, if equipped, and the fuel control system, singularly resulting in exhaust emissions exceeding 1.5 times the applicable emission standard for NMHC, CO or NO_x.

(6) A malfunction condition is induced in an electronic emission-related powertrain system or component not otherwise described above that either provides input to or receives commands from the on-board computer resulting in a measurable impact on emissions.

[63 FR 70697, Dec. 22, 1998]

Subpart B—Emission Regulations for 1977 and Later Model Year New Light-Duty Vehicles, New Light-Duty Trucks and Medium-Duty Passenger Vehicles; Test Procedures

SOURCE: 42 FR 32954, June 28, 1977, unless otherwise noted.

§ 86.101 General applicability.

(a) The provisions of this subpart are applicable to 1977 and later model year new light-duty vehicles and light-duty trucks.

(1) Sections 86.101 through 86.145-78 apply for 1978 and later model years.

(2) [Reserved]

(3) Sections 86.150 through 86.157 describe the refueling test procedures for light-duty vehicles and light-duty trucks and apply for model years 1998 and later.

(4) For fuel economy testing according to part 600 of this chapter, in the model years of 2000 and 2001 only, manufacturers have the option to use the dynamometer provisions of § 86.108-00(b)(1) and § 86.129-00 (a), (b), and (c) instead of the provisions of § 86.108-00(b)(2) and § 86.129-00 (a), (e), and (f).

(b) Provisions of this subpart apply to tests performed by both the Administrator and motor vehicle manufacturers.

(c) *National Low Emission Vehicle Program for light-duty vehicles and light light-duty trucks.* A manufacturer may elect to certify 1999 and later model year light-duty vehicles and light light-duty trucks to the provisions of the National Low Emission Vehicle Program contained in subpart R of this part. Subpart R of this part is applicable only to those manufacturers that opt into the National Low Emission Vehicle Program, under the provisions of subpart R of this part, and that have not exercised a valid opt-out from the National Low Emission Vehicle Program, which opt-out has gone into effect under the provisions of § 86.1707. All provisions of this subpart are applicable to vehicles certified pursuant to

§ 86.102

subpart R of this part, except as specifically noted in subpart R of this part.

(d) References in this subpart to engine families and emission control systems shall be deemed to refer to durability groups and test groups as applicable for manufacturers certifying new light-duty vehicles and light-duty trucks under the provisions of subpart S of this part.

[42 FR 32954, June 28, 1977, as amended at 59 FR 16295, Apr. 6, 1994; 59 FR 48504, Sept. 21, 1994; 61 FR 54890, Oct. 22, 1996; 62 FR 31234, June 6, 1997; 63 FR 965, Jan. 7, 1998; 64 FR 23921, May 4, 1999]

§ 86.102 Definitions.

The definitions in subpart A apply to this subpart.

[45 FR 14508, Mar. 5, 1980]

§ 86.103 Abbreviations.

The abbreviations in subpart A apply to this subpart.

[45 FR 14508, Mar. 5, 1980]

§ 86.104 Section numbering; construction.

(a) The model year of initial applicability is indicated by the section number. The two digits following the hyphen designate the first model year for which a section is effective. A section remains effective until superseded.

Example Section 86.111-78 applies to the 1978 and subsequent model years until superseded. If a § 86.111-81 is promulgated it would take effect beginning with the 1981 model year; § 86.111-78 would apply to model years 1978 through 1980.

(b) A section reference without a model year suffix refers to the section applicable for the appropriate model year.

(c) Unless indicated otherwise, all provisions in this subpart apply to petroleum-fueled, natural gas-fueled, liquefied petroleum gas-fueled and methanol-fueled vehicles.

[42 FR 32954, June 28, 1977. Redesignated at 45 FR 14508, Mar. 5, 1980, as amended at 54 FR 14499, Apr. 11, 1989; 59 FR 48504, Sept. 21, 1994]

§ 86.105 Introduction; structure of subpart.

(a) This subpart describes the equipment required and the procedures to follow in order to perform gaseous ex-

40 CFR Ch. I (7-1-00 Edition)

haust, particulate, and evaporative emission tests on light-duty vehicles and light-duty trucks. Subpart A of this part sets forth testing requirements and test intervals necessary to comply with EPA certification procedures. Not all emission measurement techniques described in this subpart will be necessary for all vehicles. Subpart A of this part defines the conditions under which vehicles may be exempted from measuring methane and/or waived from measuring particulate matter.

(b) Three topics are addressed in this subpart. Sections 86.106 through 86.115 set forth specifications and equipment requirements; §§ 86.116 through 86.126 discuss calibration methods and frequency; test procedures and data requirements are listed in §§ 86.127 through 86.157.

[56 FR 25760, June 5, 1991, as amended at 59 FR 16295, Apr. 6, 1994; 59 FR 48504, Sept. 21, 1994]

§ 86.106-00 Equipment required; overview.

Section 86.106-00 includes text that specifies requirements that differ from § 86.106-96. Where a paragraph in § 86.106-96 is identical and applicable to § 86.106-00, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.106-96.”

(a) introductory text through (a)(2) [Reserved]. For guidance see § 86.106-96.

(a)(3) Fuel, analytical gas, and driving schedule specifications. Fuel specifications for exhaust and evaporative emissions testing and for mileage accumulation for petroleum-fueled and methanol-fueled vehicles are specified in § 86.113. Analytical gases are specified in § 86.114. The EPA Urban Dynamometer Driving Schedule (UDDS), US06, and SC03 driving schedules, for use in exhaust emission tests, and the New York City Cycle (NYCC), for use with the UDDS in running loss tests, are specified in §§ 86.115, 86.130, 86.159, 86.160, and appendix I to this part.

(b) [Reserved]

[61 FR 54890, Oct. 22, 1996]