

to the extent and by means of the procedures set forth in part 2, subpart B of this chapter.

(e) Information provided without a claim of confidentiality at the time of submission may be made available to the public by EPA without further notice to the submitter, in accordance with § 2.204(c)(2)(i)(A) of this chapter.

**§ 90.5 Acronyms and abbreviations.**

The following acronyms and abbreviations apply to part 90.

- AECD—Auxiliary emission control device
- ASME—American Society of Mechanical Engineers
- ASTM—American Society for Testing and Materials
- CAA—Clean Air Act
- CAAA—Clean Air Act Amendments of 1990
- CLD—chemiluminescent detector
- CO—Carbon monoxide
- CO<sub>2</sub>—Carbon dioxide
- EPA—Environmental Protection Agency
- FTP—Federal Test Procedure
- g/kW-hr—grams per kilowatt hour
- HC—hydrocarbons
- HCLD—heated chemiluminescent detector
- HFID—heated flame ionization detector
- ICI—independent Commercial Importer
- NDIR—non-dispersive infrared analyzer
- NIST—National Institute for Standards and Testing
- NO—Nitric oxide
- NO<sub>2</sub>—Nitrogen dioxide
- NO<sub>x</sub>—Oxides of nitrogen
- O<sub>2</sub>—Oxygen
- OEM—original equipment manufacturer
- PMD—paramagnetic detector
- SAE—Society of Automotive Engineers
- SEA—Selective Enforcement Auditing
- SI—spark-ignition
- U.S.C.—United States Code

- VOC—Volatile organic compounds
- ZROD—zirconiumdioxide sensor

**§ 90.6 Table and figure numbering; position.**

(a) Tables for each subpart appear in an appendix at the end of the subpart. Tables are numbered consecutively by order of appearance in the appendix. The table title will indicate the topic.

(b) Figures for each subpart appear in an appendix at the end of the subpart. Figures are numbered consecutively by order of appearance in the appendix. The figure title will indicate the topic.

**§ 90.7 Reference materials.**

(a) *Incorporation by reference.* The documents in paragraph (b) of this section have been incorporated by reference. The incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be inspected at U.S. EPA Air and Radiation Docket, room M-1500, 401 M Street, S.W., Washington D.C. 20460, or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(b) The following paragraphs and tables set forth the material that has been incorporated by reference in this part.

(1) *ASTM material.* The following table sets forth material from the American Society for Testing and Materials which has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than § 90.7, in which the matter is referenced. The second column is presented for information only and may not be all inclusive. Copies of these materials may be obtained from American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103.

Document number and name	40 CFR part 90 reference
ASTM D86–93: Standard Test Method for Distillation of Petroleum Products .....	Appendix A to subpart D, Table 3.
ASTM D1319–89: Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption.	Appendix A to subpart D, Table 3.
ASTM D2622–92: Standard Test Method for Sulfur in Petroleum Products by X-ray Spectrometry.	Appendix A to subpart D, Table 3.
ASTM D2699–92:	

Document number and name	40 CFR part 90 reference
Standard Test Method for Knock Characteristics of Motor Fuels by the Research Method.	Appendix A to subpart D, Table 3.
ASTM D2700-92: Standard Test Method for Knock Characteristics of Motor and Aviation Fuels by the Motor Method.	Appendix A to subpart D, Table 3.
ASTM D3231-89: Standard Test Method for Phosphorus in Gasoline	Appendix A to subpart D, Table 3.
ASTM D3606-92: Standard Test Method for Determination of Benzene and Toluene in Finished Motor and Aviation Gasoline by Gas Chromatography.	Appendix A to subpart D, Table 3.
ASTM D5191-93a: Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method).	Appendix A to subpart D, Table 3.
ASTM E29-93a: Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications.	90.116; 90.509.

(2) *SAE material.* The following table sets forth material from the Society of Automotive Engineers which has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than §90.7, in which the matter is ref-

erenced. The second column is presented for information only and may not be all inclusive. Copies of these materials may be obtained from Society of Automotive Engineers International, 400 Commonwealth Dr., Warrendale, PA 15096-0001.

Document number and name	40 CFR part 90 reference
SAE J1930 September 1991, Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations and Acronyms	90.114
SAE Paper 770141, Optimization of a Flame Ionization Detector for Determination of Hydrocarbon in Diluted Automotive Exhausts, Glenn D. Reschke, 1977	90.316

**Subpart B—Emission Standards and Certification Provisions**

**§90.101 Applicability.**

The requirements of subpart B are applicable to all nonroad engines and vehicles subject to the provisions of subpart A of part 90.

**§90.102 Definitions.**

The definitions in subpart A of part 90 apply to this subpart. All terms not defined herein or in subpart A have the meaning given them in the Act. The following definitions also apply to this subpart.

*Attitudinal control* means the operator regulates either the horizontal or vertical position of the equipment, or both.

*Carry* means the operator completely bears the weight of the equipment, including the engine.

*Support* means that the operator holds the equipment in position so as

to prevent it from falling, slipping or sinking. It is not necessary for the entire weight of the equipment to be borne by the operator.

**§90.103 Exhaust emission standards.**

(a) Exhaust emissions from new nonroad spark-ignition engines at or below 19 kilowatts (kW), effective with the 1997 model year, shall not exceed the following levels:

Exhaust Emission Standards (grams per kilowatt-hour)

Engine displacement class	Hydro-carbon plus oxides of nitrogen	Hydro-carbon	Carbon monoxide	Oxides of nitrogen
I	16.1	.....	469	.....
II	13.4	.....	469	.....
III	.....	295	805	5.36
IV	.....	241	805	5.36
V	.....	161	603	5.36

(1) Each engine displacement class has a unique set of exhaust emission