

## § 85.1404

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chapter and measured and calculated in accordance with the procedures set forth in subpart N of part 86 of this chapter.

(2) Equipment certifiers may also submit emission results from EPA-approved alternative test procedures showing compliance with the 25 percent reduction requirements of paragraphs (b) and (c) of this section. As required in § 85.1414, the equipment certifier shall supply information on the alternative test procedure which supports the certifier's claims that the alternative test procedure is typical of in-use urban bus operation.

(f) Every operator subject to the requirements prescribed in this section shall keep records of all engine rebuilds and replacements performed on urban buses as required in § 85.1404, and maintain evidence that their urban buses are in compliance with the requirements of paragraphs (b) or (c) of this section.

(g) Operators shall affix the label provided with the equipment, required under § 85.1411(a), to the engine being rebuilt with the equipment.

[58 FR 21386, Apr. 21, 1993, as amended at 63 FR 14635, Mar. 26, 1998]

### **§ 85.1404 Maintenance of records for urban bus operators; submittal of information; right of entry.**

(a) The operator of any urban bus for which this subpart is applicable shall maintain and retain the following adequately organized and indexed records beginning January 1, 1995. Each operator shall keep such records until the five year anniversary of a rebuild or until the engine is rebuilt again, whichever occurs first.

(1) *General records.* The records required to be maintained under this paragraph shall consist of all purchase records, receipts, and part numbers for parts and components used in the rebuilding of urban bus engines.

(2) *Individual records.* A brief history of each urban bus subject to the rebuild provisions prescribed under this section including the records and documentation required to be maintained under § 85.1403(f) of this subpart.

(3) *Fuel purchase records.* The records required under this paragraph consist of all purchase records of fuels for

which the operator is claiming additional emission reductions under § 85.1403(c)(2)(iii)(E), purchase records for fuel additives required for use with equipment, and purchase records for fuels, other than diesel fuel, which are used with dual-fueled engines.

(b)(1) Any operator subject to the requirements under this section shall provide any EPA Enforcement Officer, upon presentation of credentials during operating hours, access to the following:

(i) Any facility where records required to be maintained under this section are generated or stored.

(ii) Any facility where engine rebuilding or replacement takes place.

(2) Upon admission to any facility referred to in paragraph (b)(1) of this section, any EPA Enforcement Officer shall be allowed:

(i) To inspect and make copies of records required to be maintained under this section.

(ii) To inspect and photograph any urban bus and engine subject to the standards set forth in § 85.1403 of this subpart.

(iii) To inspect and monitor any activity related to the rebuilding or replacement of an engine in an urban bus for which these regulations are applicable as described in § 85.1401 of this subpart.

### **§ 85.1405 Applicability.**

The provisions of §§ 85.1405 through 85.1414 apply to retrofit/rebuild equipment which is to be installed on or used with 1993 and earlier model year urban buses whose engines are rebuilt or replaced after January 1, 1995. For the purposes of §§ 85.1405 through 85.1414, "equipment" includes alternative fuels and fuel additives to be used with urban bus engines.

### **§ 85.1406 Certification.**

(a) Certification compliance shall be demonstrated as follows:

(1) *Test procedure and emission results.* The emission test to be used is the heavy-duty engine Federal Test Procedure as set forth in the applicable portions of part 86 of this chapter or an approved alternative test procedure prescribed under § 85.1414. Certification emission testing must be carried out

using representative production equipment as provided in paragraph (b) of this section. The test results must demonstrate that the retrofit/rebuild equipment will comply with either the particulate emission requirements of §§85.1403(b)(1)(i) or 85.1403(b)(2)(i), or provide some level of particulate emission reduction, and will not cause the urban bus engine to fail to meet any applicable Federal emission requirements set for that engine in the applicable portions of 40 CFR part 86, provided the equipment is properly installed.

(2) *Emission test engine selection.* (i) The test engine used must represent the “worst case” with respect to particulate emissions of all those engine configurations for which the retrofit/rebuild equipment is being certified. The worst case engine configuration shall be the engine configuration having the highest engine-out particulate matter emission levels, when properly maintained and used, prior to installation of the retrofit/rebuild equipment. EPA reserves the right to request data or information showing that the particulate emission reduction efficiency of the retrofit/rebuild equipment being certified under this paragraph, for use with more than one engine family, does not vary significantly among the engine families.

(ii) The results of certification tests using the worst case engine selections made in this section shall be applicable for the other engine configurations for which the retrofit/rebuild equipment is designed.

(iii) The worst case test engine selected for certification emission testing is not required to meet Federal emission standards before the retrofit/rebuild equipment is installed. However, each test engine shall have representative emissions performance that is close to the standards and have no obvious or suspected emission defects. Each test engine shall be tuned properly and set to the engine manufacturer’s specifications before testing is performed. Any excessively worn or malfunctioning emission related part shall be repaired or replaced with a new part prior to testing.

(iv) To demonstrate compliance with the particulate emission requirements

of §85.1403(b)(1)(i), the test engine used may be a new unused engine, an in-use engine that has been rebuilt previously, or an in-use engine that has not been rebuilt previously.

(v) (A) To demonstrate compliance with the particulate emission requirements of §85.1403(b)(2)(i) on engines for which particulate certification data exists, the test engine used may be a new unused engine, an in-use engine that has been rebuilt previously, or an in-use engine that has not been rebuilt previously.

(B) To demonstrate compliance with the particulate emission requirements of §85.1403(b)(2)(i) on engines for which no particulate certification data exists, the test engine used may be a new unused engine, or an in-use engine that is newly rebuilt to its original configuration.

(b) Diesel test fuel. Federally required low sulfur diesel fuel (with a sulfur content of 0.05 weight percent) shall be used for all new emissions testing required to be performed for certification of retrofit/rebuild equipment for diesel-fueled urban bus engines.

(c) Test equipment selection. Certification shall be based upon tests utilizing representative production equipment selected in a random manner.

(d) Replacing original equipment parts. Installation of any certified retrofit/rebuild equipment shall not result in the permanent removal or rendering inoperative of any original equipment emission related part other than the part(s) being replaced. Furthermore, installation of any certified retrofit/rebuild equipment shall not cause or contribute to an unreasonable risk to the public health, welfare or safety, or result in any additional range of parameter adjustability or accessibility to adjustment than that of the vehicle manufacturer’s emission related part.

(e) Affects on engine on-board diagnostic system. Installation of any certified retrofit/rebuild equipment shall not alter or render inoperative any feature of the on-board diagnostic system incorporated by the engine manufacturer. The certified equipment may integrate with the existing diagnostic system if it does not alter or render inoperative any features of the system.

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(f) In-use enforcement. (1) As a condition of certification, the equipment certifier agrees to notify operators who have installed this equipment and repair the equipment without cost to the operator when the Agency determines that a substantial number of the equipment kits, when properly maintained and used, and in actual use throughout the in-use compliance period, do not meet emission requirements.

(2) If the equipment certifier disagrees with such determination of non-conformity and so advises the MOD Director, the MOD Director shall afford the equipment certifier and other interested persons an opportunity to present their views and evidence in support thereof at a public hearing conducted in accordance with procedures found in § 85.1807. For purposes of this section, substitute the word "equipment" in place of the phrase "motor vehicles and engines."

**§ 85.1407 Notification of intent to certify.**

(a) Prior to the sale of any certified retrofit/rebuild equipment, notification of the intent to certify must be approved by the MOD Director.

(1) All notifications shall include:

(i) Identification of the candidate retrofit/rebuild equipment to be certified, including a list of parts and part numbers;

(ii) Identification of all engine configurations for which the equipment is being certified including make(s), engine model(s), model year(s), engine size(s) and all other specific configuration characteristics necessary to assure that the equipment will not be installed in any configuration for which it has not been certified;

(iii) All results and documentation of tests and procedures used by the equipment certifier as evidence of compliance with the emission requirements specified in § 85.1406;

(iv) A description of the test equipment selection criteria used, and a statement that the test equipment used for certification testing is representative production equipment consistent with § 85.1406(c);

(v) A description of the test engine selection criteria used, and rationale that supports the technical judgment

of the equipment certifier that the engine configuration used for certification testing represents worst case with respect to particulate matter emissions of all those configurations for which the retrofit/rebuild equipment is being certified, and all data that supports that conclusion;

(vi) A copy of the written instructions for proper maintenance and use of the equipment, including instructions as to whether the engine must be rebuilt to its original configuration before installing the equipment;

(vii) The scheduled maintenance required for the equipment over the in-use compliance period, including service intervals of the retrofit/rebuild equipment which detail the maintenance and replacement intervals in months and/or miles, as applicable;

(viii) A copy of the warranty language to be provided to the operator pursuant to both §§ 85.1409(a) and 85.1409(b);

(ix) A statement of commitment and willingness to comply with all the relevant terms and conditions of this subpart;

(x) A statement by the equipment certifier that use of its certified equipment will not cause a substantial increase to urban bus engine emissions in any normal driving mode not represented during certification testing; and

(xi) The office or officer of the equipment certifier authorized to receive correspondence regarding certification requirements pursuant to this subpart.

(2) If an equipment certifier wishes to certify equipment for use under § 85.1403(b) for all affected urban bus operators as specified in § 85.1401, the notification shall also contain all data and documentation used by the equipment certifier as evidence of compliance with the life cycle cost requirements specified in §§ 85.1403(b)(1)(ii) or 85.1403(b)(2)(ii); including:

(i) The price to be charged to an urban bus operator for the equipment, excluding shipping and handling costs and taxes;

(ii) A detailed breakout of the total number of hours necessary to install the equipment, and the number of