

(iii) Manufacturers certifying a split engine family may label all of the engines within that family with a single NO<sub>x</sub> or NO<sub>x</sub>+NMHC FEL. The FEL on the label will apply for all SEA or other compliance testing.

(iv) Notwithstanding the provisions of paragraph (m)(9)(iii) of this section, for split families, the NO<sub>x</sub> FEL shall be used to determine applicability of the provisions of § 86.007-11(a)(3)(ii), (a)(4)(i)(B), and (h)(1), and § 86.008-10(g).

(10) For model years 2007 through 2009, to be consistent with the phase-in provisions of § 86.007-11(g)(1), credits generated from engines in one diesel engine service class (e.g., light-heavy duty diesel engines) may be used for averaging by engines in a different diesel engine service class, provided the credits are calculated for both engine families using the conversion factor and useful life of the engine family using the credits, and the engine family using the credits is certified to the standards listed in § 86.007-11(a)(1). Banked or traded credits may not be used by any engine family in a different service class than the service class of the engine family generating the credits.

[66 FR 5163, Jan. 18, 2001]

**§ 86.007-21 Application for certification.**

Section 86.007-21 includes text that specifies requirements that differ from § 86.004-21, 86.094-21 or 86.096-21. Where a paragraph in § 86.004-21, 86.094-21 or 86.096-21 is identical and applicable to § 86.007-21, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.004-21.”, “[Reserved]. For guidance see § 86.094-21.”, or “[Reserved]. For guidance see § 86.096-21.”

(a)-(b)(3) [Reserved]. For guidance see § 86.094-21.

(b)(4)(i) [Reserved]. For guidance see § 86.004-21.

(b)(4)(ii)-(b)(5)(iv) [Reserved]. For guidance see § 86.094-21.

(b)(5)(v)-(b)(6) [Reserved]. For guidance see § 86.004-21.

(b)(7) and (b)(8) [Reserved]. For guidance see § 86.094-21.

(b)(9) and (b)(10) [Reserved]. For guidance see § 86.004-21.

(c)-(j) [Reserved]. For guidance see § 86.094-21.

(k) and (l) [Reserved]. For guidance see § 86.096-21.

(m) and (n) [Reserved]. For guidance see § 86.004-21.

(o) For diesel heavy-duty engines, the manufacturer must provide the following additional information pertaining to the supplemental steady-state test conducted under § 86.1360-2007:

(1) Weighted brake-specific emissions data (*i.e.*, in units of g/bhp-hr), calculated according to § 86.1360-2007(e)(5), for all pollutants for which an emission standard is established in § 86.004-11(a);

(2) Brake specific gaseous emission data for each of the 13 test points (identified under § 86.1360-2007(b)(1)) and the 3 EPA-selected test points (identified under § 86.1360-2007(b)(2));

(3) Concentrations and mass flow rates of all regulated gaseous emissions plus carbon dioxide;

(4) Values of all emission-related engine control variables at each test point;

(5) Weighted brake-specific particulate matter (*i.e.*, in units of g/bhp-hr);

(6) A statement that the test results correspond to the maximum NO<sub>x</sub> producing condition specified in § 86.1360-2007(e)(4). The manufacturer also must maintain records at the manufacturer’s facility which contain all test data, engineering analyses, and other information which provides the basis for this statement, where such information exists. The manufacturer must provide such information to the Administrator upon request;

(7) A statement that the engines will comply with the weighted average emissions standard and interpolated values comply with the Maximum Allowable Emission Limits specified in § 86.007-11(a)(3) for the useful life of the engine. The manufacturer also must maintain records at the manufacturer’s facility which contain a detailed description of all test data, engineering analyses, and other information which provides the basis for this statement, where such information exists. The manufacturer must provide such information to the Administrator upon request.

(p)(1) The manufacturer must provide a statement in the application for certification that the diesel heavy-duty engine for which certification is being requested will comply with the applicable Not-To-Exceed Limits specified in § 86.007-11(a)(4) when operated under all conditions which may reasonably be expected to be encountered in normal vehicle operation and use. The manufacturer also must maintain records at the manufacturer's facility which contain all test data, engineering analyses, and other information which provides the basis for this statement, where such information exists. The manufacturer must provide such information to the Administrator upon request.

(2) For engines equipped with exhaust gas recirculation, the manufacturer must provide a detailed description of the control system the engine will use to comply with the requirements of § 86.007-11(a)(4)(iii) and § 86.1370-2007(f) for NTE cold temperature operating exclusion, including but not limited to the method the manufacturer will use to access this exclusion during normal vehicle operation.

(3) For each engine model and/or horsepower rating within an engine family for which a manufacturer is applying for an NTE deficiency(ies) under the provisions of § 86.007-11(a)(4)(iv), the manufacturer's application for an NTE deficiency(ies) must include a complete description of the deficiency, including but not limited to: the specific description of the deficiency; what pollutant the deficiency is being applied for, all engineering efforts the manufacturer has made to overcome the deficiency, what specific operating conditions the deficiency is being requested for (i.e., temperature ranges, humidity ranges, altitude ranges, etc.), a full description of the auxiliary emission control device(s) which will be used to maintain emissions to the lowest practical level; and what the lowest practical emission level will be.

[65 FR 59954, Oct. 6, 2000]

**§ 86.007-23 Required data.**

Section 86.007-23 includes text that specifies requirements that differ from § 86.095-23, § 86.098-23, or § 86.001-23. Where a paragraph in § 86.095-23,

§ 86.098-23, or § 86.001-23 is identical and applicable to § 86.007-23, this may be indicated by specifying the corresponding paragraph and the statement "[Reserved]. For guidance see § 86.095-23.", "[Reserved]. For guidance see § 86.098-23.", or "[Reserved]. For guidance see § 86.001-23."

(a)-(b)(1) [Reserved]. For guidance see § 86.098-23.

(b)(2) [Reserved]. For guidance see § 86.001-23.

(b)(3) and (b)(4) [Reserved]. For guidance see § 86.098-23.

(c) *Emission data.*—(1) *Certification vehicles.* The manufacturer shall submit emission data (including, methane, methanol, formaldehyde, and hydrocarbon equivalent, as applicable) on such vehicles tested in accordance with applicable test procedures and in such numbers as specified. These data shall include zero-mile data, if generated, and emission data generated for certification as required under § 86.000-26(a)(3). In lieu of providing emission data the Administrator may, on request of the manufacturer, allow the manufacturer to demonstrate (on the basis of previous emission tests, development tests, or other information) that the engine will conform with certain applicable emission standards of this part. Standards eligible for such manufacturer requests are those for idle CO emissions, smoke emissions, or particulate emissions from methanol-fueled or gaseous-fueled diesel-cycle certification vehicles, those for particulate emissions from Otto-cycle certification vehicles or gaseous-fueled vehicles, and those for formaldehyde emissions from petroleum-fueled vehicles. Also eligible for such requests are standards for total hydrocarbon emissions from model year 1994 and later certification vehicles. By separate request, including appropriate supporting test data, the manufacturer may request that the Administrator also waive the requirement to measure particulate or formaldehyde emissions when conducting Selective Enforcement Audit testing of Otto-cycle vehicles.

(2) *Certification engines.* The manufacturer shall submit emission data on such engines tested in accordance with applicable emission test procedures of