

(v) Fillpipe seal mechanism—mechanical, liquid trap, other.

(vi) Fill limiter system.

(vii) Vapor control system or method of controlling vapor flow through the vapor line to the canister.

(viii) Vapor/liquid separator usage.

(ix) Purge system (valve, purge strategy and calibrations).

(x) Vapor hose diameter and material.

(xi) Canister location (front, rear, mid-vehicle).

(xii) Onboard diagnostic hardware and calibrations.

(a)(7) Where vehicles are of a type which cannot be divided into evaporative/refueling emission families based on the criteria listed above (such as non-canister control system approaches), the Administrator will establish families for those vehicles based upon the features most related to their evaporative and/or refueling emission characteristics.

(a)(8)-(b)(1)(vi) [Reserved]. For guidance see § 86.096-24.

(b)(1)(vii)(A) Vehicles of each evaporative/refueling emission family will be divided into evaporative/refueling emission control systems.

(B) The Administrator will select the vehicle expected to exhibit the highest evaporative and/or refueling emissions, from within each evaporative/refueling family to be certified, from among the vehicles represented by the exhaust emission-data selections for the engine family, unless evaporative and/or refueling testing has already been completed on the vehicle expected to exhibit the highest evaporative and/or refueling emissions for the evaporative/refueling family as part of another engine family's testing.

(C) If the vehicles selected in accordance with paragraph (b)(1)(vii)(B) of this section do not represent each evaporative/refueling emission control system then the Administrator will select the highest expected evaporative/refueling emission vehicle from within the unrepresented evaporative/refueling system.

(viii) For high-altitude evaporative and/or refueling emission compliance for each evaporative/refueling emission family, the manufacturer shall follow one of the following procedures:

(A) The manufacturer will select for testing under high-altitude conditions the one nonexempt vehicle previously selected under paragraph (b)(1)(vii)(B) or (b)(1)(vii)(C) of this section which is expected to have the highest level of evaporative and/or refueling emissions when operated at high altitude; or

(B) [Reserved]. For guidance see § 86.096-24.

(b)(ix)-(e)(2) [Reserved]. For guidance see § 86.096-24.

(f) *Carryover and carryacross of durability and emission data.* In lieu of testing an emission-data or durability vehicle (or engine) selected under paragraph (b)(1)(vii) through (viii) of this section and § 86.096-24 (b)(1)(i) through (vii) and (b)(2) through (c), and submitting data therefor, a manufacturer may, with the prior written approval of the Administrator, submit exhaust emission data, evaporative emission data and/or refueling emission data, as applicable on a similar vehicle (or engine) for which certification has been obtained or for which all applicable data required under § 86.098-23 has previously been submitted.

(g)-(h) [Reserved]. For guidance see § 86.096-24.

[59 FR 16290, Apr. 6, 1994]

**§ 86.098-25 Maintenance.**

Section 86.098-25 includes text that specifies requirements that differ from § 86.094-25. Where a paragraph in § 86.094-25 is identical and applicable to § 86.098-25, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.094-25.”

(a)(1) [Reserved]. For guidance see § 86.094-25.

(a)(2) Maintenance performed on vehicles, engines, subsystems, or components used to determine exhaust, evaporative or refueling emission deterioration factors is classified as either emission-related or non-emission-related and each of these can be classified as either scheduled or unscheduled. Further, some emission-related maintenance is also classified as critical emission-related maintenance.

(b) introductory text through (b)(3)(vi)(D) [Reserved]. For guidance see § 86.094-25.

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(b)(3)(vi)(E) Evaporative and/or refueling emission canister(s).

(F) Turbochargers.

(G) Carburetors.

(H) Superchargers.

(I) EGR System including all related filters and control valves.

(J) Mechanical fillpipe seals.

(b)(3)(vii)-(b)(6)(i)(E) [Reserved]. For guidance see § 86.094-25.

(b)(6)(i)(F) Evaporative and refueling emission control system components (excluding canister air filter).

(b)(6)(i)(G)-(h) [Reserved]. For guidance see § 86.094-25.

[59 FR 16291, Apr. 6, 1994]

### § 86.098-26 Mileage and service accumulation; emission measurements.

Section 86.098-26 includes text that specifies requirements that differ from § 86.094-26, § 86.095-26 or § 86.096-26. Where a paragraph in § 86.094-26, § 86.095-26 or § 86.096-26 is identical and applicable to § 86.098-26, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.094-26.” or “[Reserved]. For guidance see § 86.095-26.” or “[Reserved]. For guidance see § 86.096-26.”.

(a)(1) and (2) [Reserved]. For guidance see § 86.094-26.

(a)(3) *Emission data vehicles*. Unless otherwise provided for in § 86.098-23(a), emission-data vehicles shall be operated and tested as described in paragraphs (a)(3)(i) and (ii)(C) of this section and § 86.094-26 (a)(3)(ii)(A), (B) and (D).

(i) *Otto-cycle*. (A) The manufacturer shall determine, for each engine family, the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall maintain, and provide to the Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent

emission-data vehicle selections under § 86.098-24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.098-24(b)(1) with engine-system combinations that have accumulated more than 10,000 kilometers (6,200 miles) shall be factored in accordance with 40 CFR 600.006-87(c). Complete exhaust, evaporative and refueling (if required) emission tests shall be conducted for each emission-data vehicle selection under § 86.098-24(b)(1). The Administrator may determine under § 86.094-24(f) that no testing is required.

(B) [Reserved]. For guidance see § 86.094-26.

(C) Exhaust, evaporative and refueling emissions tests for emission-data vehicle(s) selected for testing under § 86.096-24(b)(1) (i), (ii), (iii) or (iv) or § 86.098-24(b)(1)(vii)(B) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under low-altitude conditions.

(a)(3)(i)(D)-(a)(3)(ii)(B) [Reserved]. For guidance see § 86.094-26.

(a)(3)(ii)(C) Exhaust, evaporative and refueling emissions tests (as required) for emission-data vehicle(s) selected for testing under § 86.096-24(b)(1) (i), (ii), (iii), or (iv), or § 86.098-24 (b)(1)(vii)(B) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under low-altitude conditions.

(a)(3)(ii)(D)-(b)(4)(i)(C) [Reserved]. For guidance see § 86.094-26.

(b)(4)(i)(D)-(b)(4)(ii)(D) [Reserved]. For guidance see § 86.095-26.

(b)(4)(iii) [Reserved]

(b)(4)(iv)-(c)(3) [Reserved]. For guidance see § 86.094-26.

(c)(4) [Reserved]. For guidance see § 86.096-26.

(d) [Reserved]. For guidance see § 86.094-26.

[59 FR 16291, Apr. 6, 1994, as amended at 60 FR 43888, Aug. 23, 1995]