

Attachment 1 Proposed Refuse Removal Vehicle Rule Concepts (Draft)

Exhaust Emission Standards for In-Use Heavy Duty Diesel Engines on Refuse Removal Vehicles

The Refuse Removal Vehicle Rule may include, but is not limited to the following:

1. Scope and Applicability

All refuse removal vehicles in California will be governed by this regulation. A “refuse removal vehicle” means a heavy-duty diesel engine on a heavy-duty diesel vehicle involved in solid waste management (as defined in Title 42 U.S.C.A. Chapter 82 - Solid Waste Disposal Section 6903 (28)). A heavy-duty diesel engine is an engine, which uses diesel fuel and is used to propel a heavy-duty diesel vehicle, meaning a motor vehicle with a manufacturer’s gross vehicle weight rating greater than 14,000 pounds. Thus, all vehicles involved in "the systematic administration of activities which provide for the collection, source separation, storage, transportation, transfer, processing, treatment, and disposal of solid waste (U.S.C.A. Chapter 82 - Solid Waste Disposal Section 6903 (28))” are covered by this rule. Only those vehicles involved in solid waste management of "solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under Section 1342 of Title 33, or source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954, as amended (U.S.C.A. Chapter 82 - Solid Waste Disposal Section 6903 (27))" are not covered under this regulation.

2. Exhaust Emission Standards

All in-use pre-2007 model year heavy-duty diesel engines on refuse removal vehicles in California must decrease diesel particulate matter exhaust by employing one of the following emission control strategies:

- Using an ECS verified under the Retrofit Verification Procedure.
- Or achieve an 85% reduction of diesel PM emissions from the engine certification level, or 0.01 grams per brakehorse power hour diesel particulate matter emission level through an ARB certified replacement, repower, remanufacture, or fuel and/or engine change.

3. Fuel Requirement

All heavy-duty diesel refuse removal vehicles in California must use low sulfur diesel fuel of 15 parts per million sulfur content or less as of July 1, 2003.

4. Reporting Requirements

Each refuse removal vehicle owner must submit to the ARB the following:

- An initial report containing, at a minimum, the following information:
 - An inventory of the refuse removal vehicle owners' heavy-duty diesel engines including engine manufacturer, engine model, engine model year, fuel usage type, vehicle type, and number of each,
 - A description of how the retrofit requirement will be met.
 - ID of vehicles/engines to be retired by January 1, 2005.
- A final report containing, at a minimum, the following information:
 - An inventory of the refuse removal vehicle owners' heavy-duty diesel engines including engine manufacturer, engine model, engine model year, fuel usage type, vehicle type, and number of each,
 - Retrofit information, including a description of how the retrofit requirement was met, verification of the retrofit (i.e. receipts), and when the retrofit occurred.
 - ID of vehicles/engines to be retired by January 1, 2005.
- The refuse removal vehicle owner must also maintain an annual report in their Periodic Smoke Inspection Program records for the lifetime of the vehicles with model year engines pre-2007, which includes the information from the initial report above and maintenance and inspection records that verify the proper functioning of the retrofit.

5. Implementation Schedule

- No refuse removal vehicle exceeding these exhaust emissions standards may operate in California after January 1, 2004.
- All heavy-duty diesel refuse removal vehicles must use low sulfur diesel fuel by July 1, 2003.

- Refuse removal vehicle owners of less than # (number from the small business economic analysis segment) vehicles may delay implementation to July 1, 2006.
- The initial report discussed under Section 4 "Reporting Requirements" must occur by January 1, 2003.
- The final report discussed under Section 4 "Reporting Requirements" must occur by January 1, 2004.

6. Compliance

- Any vehicle in compliance with this rule can not have any visible emissions, or
- ARB will establish a performance standard for the proper operation of vehicles in compliance with this rule.

7. Exemptions

One-year implementation delays may be obtained for two reasons: technical infeasibility and engine retirement, through the process as described below:

- Technical Infeasibility

If the ECS is not available six months prior to the implementation date, a refuse removal vehicle owner will be eligible for a one-year delay in complying with the retrofit requirements, upon submittal of documentation of ECS unavailability to ARB in writing at least 60 days before the retrofit requirement becomes applicable and upon approval of the delay by the Executive Officer of ARB.

- Engine Retirement

Heavy-duty diesel engines within one year of retirement, meaning that the engine will no longer be used by any vehicle within California, are exempt from the January 1, 2004, exhaust emission standards above, provided documentation of retirement is supplied to the Executive Officer.