Ventura County
Air Pollution
Control District

COMPLIANCE ASSISTANCE ADVISORY

PORTABLE DIESEL ENGINES: UPCOMING PORTABLE DIESEL ENGINE FLEET EMISSION REQUIREMENTS

The purpose of this advisory is to help owners and operators of portable diesel engines understand and comply with the state's Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter from Portable Engines and to advise them of the upcoming deadline related to the fleet emission requirements for portable diesel engines. This requirement applies to all portable diesel engines whether they are registered with the Statewide Portable Engine Registration Program (PERP), or operating under an APCD Permit to Operate.

The current version of the ATCM became effective on February 19, 2011. It contains emission limitations and other requirements that are related to the operation of portable diesel engines. Most importantly, Section 93116.3(c)(1) of the ATCM states the following:

> "Each fleet is subject to and shall comply with the following weighted PM emission fleet averages expressed as grams per brake horsepower-hour (g/bhp-hr) by the listed compliance dates:

Fleet Standard Compliance Date	Engines <175 hp (g/bhp-hr)	Engines 175 to 750 hp (g/bhp-hr)	Engines > 750 hp (g/bhp-hr)
1/1/2013	0.3	0.15	0.25
1/1/2017	0.18	0.08	0.08
1/1/2020	0.04	0.02	0.02

Beginning January 1, 2013, portable diesel engines registered under the PERP or permitted by any local air district, must comply with the fleet emission standard for that engine size category. Future fleet standard compliance dates are January 1, 2017 and January 1, 2020. Fleet owners may want to plan ahead for those dates as well.

You may download a PDF copy of the current portable diesel engine ATCM from CARB at: http://www.arb.ca.gov/portable/perp/perpatcm.pdf.

Owners of portable diesel engines must submit a report to the California Air Resources Board (CARB) no later than March 1, 2013, documenting how their portable diesel engine fleets comply with the applicable fleet emission standard. Failure to submit the required reports to CARB could subject fleet owners to enforcement action including possible monetary penalties.

Reports should be mailed to:

ARB/PERP
P.O. Box 2038
Sacramento, CA 95812

For more information regarding the fleet average emission requirements, your reporting/recordkeeping responsibilities and how to count engines and calculate the weighted PM fleet average for your fleet, please see the attached CARB pamphlet.

The pamphlet can be viewed online at http://www.arb.ca.gov/portable/perp/2013changes.pdf. En Espanol aqui: http://www.arb.ca.gov/portable/perp/2013changesSP.pdf.

You may download a PDF copy of the current portable diesel engine ATCM from CARB at: http://www.arb.ca.gov/ba/loan/off-road/off-road.htm.

If you have any questions regarding the APCD's enforcement of the portable diesel engine ATCM, please contact the District's Compliance Division at 805/645-1494.

Portable Diesel Engines

Important Information

1. Fleet emission requirements apply to portable engines registered with Portable Equipment Registration Program or operating under air district permits.

2. Be proactive-Check compliance with fleet emission requirements promptly. This will allow time to adjust your fleet before the **January 1, 2013,** deadline.

3. Fleet emission requirements will become more stringent in January 2017 and 2020. Plan accordingly.

4. Obtain portable diesel engine information at www.arb.ca.gov/portable/portable.htm.

5. If you need help, call (916) 324-5869 or e-mail portable@arb.ca.gov.

(12/6/12)

CALIFORNIA AIR RESOURCES BOARD
P.O. BOX 2038
SACRAMENTO, CA 95812

California Environmental Protection Agency AIR RESOURCES BOARD

Portable Diesel Engines

FLEET 2013

California Environmental Protection Agency
Air Resources Board

New Fleet Emission Requirements Effective January 1, 2013

Portable Diesel Engines *2013 Fleet Requirements*

List of regulation changes and checklist of recordkeeping requirements for portable equipment diesel engines.

Beginning January 1, 2013 portable diesel engines registered in PERP or operating under air district permits must comply with weighted particulate matter (PM) emission fleet averages expressed as grams per brake horsepower-hour (g/bhp-hr). These requirements are part of the Airborne Toxic Control Measure (ATCM) for diesel PM from portable engines. You can have up to three different fleets depending on the size of the engines in your inventory. The ATCM has emission standards for each fleet depending on engine size range. The table below shows the standards effective January 1, 2013.

Engine Size Category in Fleet	50 to less than 175 hp	175 to 750 hp	Greater than 750 hp
Weighted PM Fleet Average	0.3 g/bhp-hr	0.15 g/bhp-hr	0.25 g/bhp-hr

If your fleet average emissions are above the standard YOU must clean up your fleet by using the following options:

1. Replace older, dirtier engines with newer, cleaner engines
2. Replace diesel engines with electric power
3. Install add on controls to engines such as an approved diesel particulate filter (DPF)

How to Determine Compliance?

Determine the weighted PM emissions averages for all the engines within each of the three categories to check if the emissions comply with the applicable standard. This can be done by using ARB's Fleet Calculator (on line or downloadable) or by calculating the weighted PM emissions yourself. You will need engine family name and horsepower of each engine. Refer to your registration or district permit. Other exemptions such as emergency engines, low use engines may apply. Refer to the ATCM.

How to use the ARB Fleet Calculator:

1. Exclude engines below 50 horsepower.
2. Group remaining inventory into three categories based on horsepower in the above table.
3. Use ARB's Fleet Calculator at http://arb.ca.gov/portable/portable2.htm to determine compliance of each fleet.

How to calculate weighted PM fleet average yourself:

1. Look up engine emission factor at http://www.arb.ca.gov/msprog/offroad/cert/cert.php for each engine in fleet.
2. Use the following formula to determine compliance with each fleet standard:

$$\frac{(\text{bhp} \times \text{E.F.})_{\text{1st engine}} + (\text{bhp} \times \text{E.F.})_{\text{2nd engine}} + \ldots(\text{bhp} \times \text{E.F.})\ n}{(\text{bhp}_{\text{1st engine}} + \text{bhp}_{\text{2nd engine}} + \ldots\ \text{bhp}_{n})}$$

Where: bhp = maximum rated horsepower, E.F. = diesel PM emission rate, and n = the number of engines in the category

Report to ARB by March 1, 2013

What must be reported?

- ☐ Statement of compliance by responsible official
- ☐ Summary of each engine in fleet with the emission rate
- ☐ Engine make, model, serial # and year
- ☐ Low use and emergency engines
- ☐ PERP registration number or district permit numbers