

# Compliance Advisory

## December 20, 2011

### Stationary Engines: Compliance Deadline

*This Advisory is provided to inform you about activities of the Air District which may affect your operation. It will help you achieve and maintain compliance with applicable air pollution rules and regulations.*

**ATTENTION: OWNERS AND OPERATORS OF STATIONARY INTERNAL COMBUSTION (IC) ENGINES**

**SUBJECT: NEW EMISSION LIMITS FOR STATIONARY IC ENGINES (REGULATION 9, RULE 8) AND CARB ATCMS FOR DIESEL ENGINES**

On July 25, 2007, the Bay Area Air Quality Management District (Air District) amended Regulation 9, Rule 8 (Reg. 9-8). The amended Reg. 9-8 has stringent Nitrogen Oxides (NOx) and Carbon Monoxide (CO) emission limits that are effective **January 1, 2012** for gaseous-fueled, liquid-fueled and dual fuel stationary IC engines that are larger than 50 brake horsepower (bhp).

- **New Emission Limits effective January 1, 2012:** The following table outlines the new emissions standards for all stationary IC engines, which vary depending on the type of engine and fuel. *Note that some permitted engines will also continue to have more restrictive emission limits provided in permit conditions.*

| <b>EMISSION LIMITS FOR STATIONARY INTERNAL COMBUSTION ENGINES (EFFECTIVE 1/1/2012)</b> |                                   |  |                    |                  |
|--|-----------------------------------|--|--------------------|------------------|
| <b>Section</b>   | <b>Engine Type</b>                | <b>Fuel Type or Rating</b>             | <b>NOx PPMVD *</b> | <b>CO PPMVD*</b> |
| 301.1  | Spark-Ignited: Rich Burn          | Fossil-derived                         | <b>25</b>          | 2000 (no change) |
| 301.2  | Spark-Ignited: Lean Burn          | Fossil-derived                         | <b>65</b>          | 2000 (no change) |
| 302  | Spark-Ignited: Rich and Lean Burn | Waste-derived                          | <b>70</b>          | 2000 (no change) |
| 304.1  | Compression-Ignited               | 51-175 bhp                             | <b>180</b>         | <b>440</b>       |
| 304.2  | Compression-Ignited               | > 175 bhp                              | <b>110</b>         | <b>310</b>       |
| 306  | Compression-Ignited: Dual Fuel    | Waste-derived gas with <5% diesel fuel | <b>70</b>          | <b>2000</b>      |

\*PPMVD = Parts Per Million, Volume, corrected to 15% O<sub>2</sub>, Dry basis.

- **Delayed Compliance Options Available:** Persons operating IC engines needing to meet the emission standards listed above have the option to delay compliance until **January 1, 2016**, subject to the following criteria:
  - Existing Spark-Ignited Engines (Reg. 9-8-303) must:
    - Be rated between 51 and 250 bhp, or are model year 1996 or later (newer); and
    - Comply with Best Available Control Technology (BACT) requirements **no later than January 1, 2016** (Reg. 2-2-206 defines BACT; the Air District BACT Workbook can be viewed at <http://hank.baaqmd.gov/pmt/bactworkbook/default.htm>); and
    - Be identified in a delayed compliance option report submitted **no later than January 1, 2012.**
  - Existing Compression-Ignited Engines, model year 1996 or later (Reg. 9-8-305) must:
    - Meet one of the following conditions:
      - NOx emissions shall not exceed 22 ppmvd and CO emissions shall not exceed 310 ppmvd, or
      - NOx and CO emissions shall not exceed BACT limits **no later than January 1, 2016**
    - Be identified in a delayed compliance option report submitted **no later than January 1, 2012.**

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- Any written delayed compliance option report shall specify that the owner or operator of a stationary engine has elected to delay compliance. The report shall include the following information about the engine: Air District plant and source number; facility name, contact name, phone number, address; and engine make, model, model year and size. All delayed compliance reports must be sent to:

**BAAQMD Compliance and Enforcement Division**

**MAIL STOP: REPORTS, 9-8**

**939 Ellis Street, San Francisco, CA 94109**

- **Exemptions May Apply:** Several exemptions are valid until January 1, 2012. After January 1, 2012, the following IC engines will continue to have a full or limited exemption from Reg. 9-8:
  - Engines < 50 bhp.
  - Engines used exclusively for the growing of crops or raising of animals (however, these engines are subject to Reg 11-11, Limited Use Stationary Compressions Ignition (Diesel) Engines in Agricultural Use).
  - Emergency Standby Engines.
  - Any engine can qualify for exemption if it operates fewer than 100 hours in a 12-consecutive-month period.
  - Portable Engines with a valid California Air Resources Board's Statewide Portable Equipment Registration Program (PERP) registration.
- **Quarterly Demonstration of Compliance:** Any IC engine that is not exempt or is not an Emergency Standby Engine shall conduct a quarterly test for NOx and CO using a **portable analyzer** (Reg. 9-8-503), as follows:
  - Emission readings shall be averaged over a continuous 15-minute period during normal engine operation; and
  - Readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the permit-to-operate; and
  - The portable analyzer should be calibrated, maintained and operated according to the manufacturer's specifications; and
  - Readings with a portable analyzer are not required in any quarter when a source test is conducted.

The test methods specified in Sections 601 and 602 should be used for source tests only. Those methods are not intended to be requirements for quarterly monitoring. Quarterly monitoring using a portable analyzer **may not substitute** for **initial source test** requirements.

- **Airborne Toxic Control Measures (ATCMs) for Diesel Engines:** The District also enforces California Air Resources Board control measures to reduce diesel particulate matter emitted from diesel engines. The ATCM for stationary diesel engines can be found at: [www.arb.ca.gov/diesel/documents/FinalReg2011.pdf](http://www.arb.ca.gov/diesel/documents/FinalReg2011.pdf) and for portable diesel engines at: [www.arb.ca.gov/portable/perp/perpatcm.pdf](http://www.arb.ca.gov/portable/perp/perpatcm.pdf). If you own or operate any stationary and/or portable diesel engine, you should know how it is regulated and take appropriate action to stay in compliance. A portable diesel engine may inadvertently become a stationary source, and therefore become subject to more stringent requirements.

**More Information can be obtained from the following sources:**

- ☎ For questions about this Advisory, contact Donald Van Buren, Senior Air Quality Engineer, at [dvanburen@baaqmd.gov](mailto:dvanburen@baaqmd.gov) or (415) 749-4746.
- ☎ For a copy of the above listed District rule, see [www.baaqmd.gov/rules](http://www.baaqmd.gov/rules).
- ☎ For compliance assistance, call (415) 749-4999, the Compliance Counselor Hotline.
- ☎ For assistance regarding BACT applicability call (415) 749-4990, Engineering Services.

**Brian Bateman**  
**Director of Compliance and Enforcement**