



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Refinery Emissions Tracking and Mitigation Rules

Air District Regulation 12: Rule 15 & Rule 16

The Air District is developing two new rules that will affect the five Bay Area refineries. The first of the two proposals, **draft Regulation 12, Rule 15: Petroleum Refining Emissions Tracking (Rule 12-15)**, will gather emissions inventory and crude oil composition information from the refiners and increase air monitoring activities at the refinery fence lines and in nearby communities.

The second proposal, **draft Regulation 12, Rule 16: Petroleum Refining Emissions Analysis, Thresholds and Mitigation (Rule 12-16)**, complements Rule 12-15 and will require refiners to identify causes and mitigate emissions increases above certain emission baseline thresholds developed as part of Regulation 12, Rule 15.

For additional information regarding Regulation 12: Rule 15 & Rule 16 including when and where public workshops will be held, please visit the Air District website:

<http://www.baaqmd.gov/refine>

For questions and comments, contact Eric Stevenson at estevenson@baaqmd.gov or via phone at 415-749-4695.

Regulation 12: Rule 15 will require refineries to establish baseline emissions, provide facility-wide emissions inventories and crude oil information, develop updated Health Risk Assessments (HRAs) and increase air monitoring activities. **Specifically, this rule will require Bay Area refineries to submit the following major elements:**

- Report on-going annual emissions inventories of criteria pollutants, Toxic Air Contaminants (TACs) and Greenhouse Gases (GHG) based on upgraded methods, including emissions from refinery cargo carriers
- Establish a baseline Petroleum Refinery Emissions Profile (PREP), and require that on-going emissions inventories include comparisons with the PREP
- Report on-going crude oil characteristics with annual emissions inventories (e.g., sulfur and nitrogen content, API gravity, Total Acid Number)
- Update refinery-wide HRAs based on upgraded TAC emissions inventories and revised California EPA Office of Environmental Health Hazard Assessment (OEHHA) HRA guidelines
- Enhance fence line air monitoring systems and establish community air quality monitoring systems

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Draft Regulation 12, Rule 16: Petroleum Refining Emissions Analysis, Thresholds and Mitigation (Rule 12-16), complements Rule 12-15 and will require refiners to investigate causes and mitigate emissions increases. **Specifically, this rule will require Bay Area refineries to submit the following major elements:**

- Causal Analysis of criteria pollutants, greenhouse gases (GHG) and Toxic Air Contaminants (TACs) if trigger levels are exceeded
- Mitigation plans to bring criteria pollutants and TACs below trigger levels within two years
- Identification of control technology (audit) of all sources if reductions not achievable within two years to identify potential to further reduce emissions
- Updates to mitigation plan if proposed progress is not made within two years
- Health Risk Assessment (HRA) updates if risk increases above trigger levels

Background Information

In October, 2014, the Bay Area Air Quality Management District's Board of Directors adopted a resolution that committed the agency to develop a strategy to achieve further emission reductions from petroleum refineries. Interested stakeholders can find extensive information on the resolution, health risk assessment information, rule development processes and opportunities for public participation at <http://www.baaqmd.gov/refine>, including when and where public workshops will be held.

Request for Comments

Air District staff requests public review and comments on draft Regulation 12, Rule 15: Petroleum Refining Emissions Tracking and draft Regulation 12, Rule 16: Petroleum Refining Emissions Analysis, Thresholds and Mitigation. **Comments relating to the draft proposals should be addressed to Eric Stevenson, Director, Technical Services Division, 939 Ellis Street, San Francisco, CA 94109. Comments may also be submitted by e-mail to estevenson@baaqmd.gov.** The comment period has been extended to close of business, Friday, April 3, 2015.

For additional information regarding Regulation 12: Rule 15 & Rule 16, please visit the Air District website at <http://www.baaqmd.gov/refine>.

For questions and comments, contact Eric Stevenson at estevenson@baaqmd.gov or via phone at 415-749-4695.

On the Air District website, interested stakeholders can find:

- **When and where public workshops will be held**
- **Workshop Report and complete Regulation text**
- **Air Monitoring Guidelines for Petroleum Refineries**
- **Air Monitoring Expert Panel Report & Findings (Webcast included)**
- **Emissions Inventory Guidelines for Petroleum Refineries**