

# Air Quality Update

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*August 18, 2016 – SJVAPCD*

## **NEW REPORTING AND LABELING REQUIREMENTS FOR LARGE SPARK-IGNITION EQUIPMENT**

In July 2016, the California Air Resources Board (CARB) amended and approved the Large Spark-Ignition (LSI) Engine Fleet Requirements Regulation, which now includes new reporting and labeling requirements. Except for small fleets (1-3 forklifts and/or 1-3 non-forklifts), the LSI regulation applies to operators of off-road LSI engine forklifts, sweepers/scrubbers, industrial tow tractors, or airport ground support equipment with engines of 25 horsepower or greater with a displacement greater than 1.0 liter.

Except for small fleets, the initial reporting deadline is June 30, 2017, and will continue between June 1<sup>st</sup> and June 30<sup>th</sup> annually through 2023. Although the LSI regulation is for non-diesel equipment, reporting will be done via the Diesel Off-Road Online Reporting System (DOORS)\*, the same reporting system as the diesel off-road regulation. Equipment Identification Numbers (EINs) will be assigned in DOORS for each piece of LSI equipment. EINs need to be labeled on equipment by June 30, 2017.

Fleet average requirements for the LSI rule remain unchanged. Medium forklift fleets (4-25 forklifts), large forklift fleets (26+ forklifts), and non-forklift fleets (4+ non-forklifts) should not exceed the 2013 Fleet Average Emission Level (FAEL) standards. Small fleets are still exempt from FAEL standards, as well as from reporting and labeling requirements.

Limited hours use (LHU) equipment that operated less than 200 hours in the preceding calendar year are included in the fleet size determination, but can be excluded from the FAEL calculations. LHU equipment must be equipped with a non-resettable hour meter, and usage records must be maintained and reported annually.

*\*DOORS can be accessed via:*  
[https://ssl.arb.ca.gov/ssldoors/doors\\_reporting/doors\\_login.html](https://ssl.arb.ca.gov/ssldoors/doors_reporting/doors_login.html)

## **PERP AND PORTABLE ENGINES: PLANNED AMENDMENTS TO FLEET AVERAGE EMISSION STANDARDS**

In December 2015, CARB issued an advisory to inform owners/operators of engines subject to either the Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater and/or the Statewide Portable Equipment Registration Program (PERP) Regulation that amendments are underway for the upcoming 2017 and 2020 fleet average emission standards for diesel particulate matter (DPM). The 2017 and 2020 standards are part of a series of fleet average emission standards that require more stringent standards for DPM, with the first of the standards effective as of January 1, 2013.

The planned amendments are triggered by CARB's determination that widespread compliance with the 2017 and 2020 fleet average standards for DPM may not be feasible. The 2013 fleet average emission standard is still in effect, and the next fleet average reporting is due March 1, 2017. In anticipation of the upcoming amendments, CARB may relax enforcement of the current 2017 standard; see the advisory

posted on CARB's website here:  
<http://www.arb.ca.gov/enf/advs/advs347.pdf>

Currently, CARB is holding multiple workshops to discuss the proposed amendments. The rulemaking process is estimated to begin in early 2017. The requirements prohibiting the use of Tier 0 emergency and low-use engines take effect January 1, 2017, and are not expected to change with the planned amendments.

## ***Air Quality Tip***

*Facilities that hold a Title V Operating Permit must renew their permit every 5 years. A complete renewal application is due to the District no sooner than 545 days and no later than 180 days before the current permit expires. Be sure to keep an eye on when your facility Title V permit expires and allow enough time to perform the necessary reviews, including any regulatory or facility changes since the prior permit issuance, and to prepare the application forms to submit to the District on time.*

### **Upcoming Training Offered by Yorke Engineering**

- California Multi-Media Environmental Regulations: Permitting, Compliance, and Reporting Seminar:  
October 11 – October 12, 2016  
<http://www.yorkeengr.com/AirQualityClasses.htm>

### **Upcoming Due Dates for 2016/2017**

- CARB GHG Verification ..... 9/1/2016
- CARB GHG Cap-and-Trade Annual Compliance Surrender ..... 11/1/2016
- CARB On-Road Heavy-Duty Diesel Vehicle Reporting for Flexibility Options ..... 1/31/2017
- Semi-Annual Title V Report ..... Semi-Annually
- Annual Title V Compliance Certification ..... Annually
- Title V – Application for Permit Renewal – Due 180 Days Prior to Permit Expiration

## SJVAPCD ADOPTED RULE CHANGES

For full details on changes below, go to: [http://www.valleyair.org/rules/rules\\_recently\\_adopted.htm](http://www.valleyair.org/rules/rules_recently_adopted.htm)

### ▪ Rule 4307: Boilers, Steam Generators, and Process Heaters – 2.0 MMBtu/hr to 5.0 MMBtu/hr

Rule 4307 was last amended in 2011 to include tree nut pasteurizers as a separate type of unit under the rule, which allows existing tree nut pasteurizing operations to continue meeting strict Food and Drug Administration (FDA) almond treatment requirements, while maintaining compliance with Rule 4307 requirements. At the time, only natural gas was used as fuel for tree nut pasteurizers. With the recent addition of liquefied petroleum gas (LPG)-fueled tree nut pasteurizers, the District has amended Rule 4307 to include LPG as an acceptable fuel to be used by tree nut pasteurizers.

## UPCOMING COMPLIANCE DATE FOR RULE 4905

Rule 4905 – Natural Gas-Fired, Fan-Type Central Furnaces is a point-of-sale rule that applies to any person who supplies, sells, offers for sale, installs, or solicits the installation of natural gas-fired, fan-type central furnaces for use within the San Joaquin Valley Air Basin with a rated heat input capacity of less than 175,000 British thermal units per hour (Btu/hr), and for combination heating and cooling units with a rated cooling capacity of less than 65,000 Btu/hr. Rule 4905 was last amended in January 2015 by lowering the nitrogen oxide (NO<sub>x</sub>) emission limit for residential units to 14 nanograms per Joule (ng/J). Table 1 of Rule 4905 specifies the various NO<sub>x</sub> limits and compliance dates based on the different type of units and location of installation. Pursuant to Table 1, the upcoming compliance date for the new

NO<sub>x</sub> emission limit of 14 ng/J for weatherized units is October 1, 2016.

## SJVAPCD PROPOSED RULE CHANGES

For full details on changes below, go to: [http://www.valleyair.org/Workshops/public\\_workshops\\_idx.htm](http://www.valleyair.org/Workshops/public_workshops_idx.htm)

### ▪ Rule 9510: Indirect Source Review

Rule 9510 is the San Joaquin Valley Air Pollution Control District's (SJVAPCD's) Indirect Source Review (ISR) rule, which applies to:

- Development projects that require final discretionary approval;
- Transportation or transit projects that will result in construction exhaust emissions that equal or exceed 2 tons of NO<sub>x</sub> or 2 tons of particulate matter smaller than 10 microns in aerodynamic diameter (PM<sub>10</sub>); or
- Projects on a contiguous or adjacent property under common ownership.

The District proposes to update the rule to ensure that the rule requirements will be consistently applied throughout the various range of development projects, as applicable. The purpose of the ISR rule is to reduce emissions of NO<sub>x</sub> and PM<sub>10</sub> associated with construction and operational activities of development projects occurring within the San Joaquin Valley. As part of the rule amendments, the District proposes to expand the rule applicability by including large development projects that require ministerial or otherwise non-discretionary approval from a public agency. The following are proposed as

the applicability thresholds for large development projects:

- 250 residential units;
- 10,000 square feet of commercial space;
- 125,000 square feet of light industrial space;
- 500,000 square feet of heavy industrial space;
- 100,000 square feet of medical office space;
- 195,000 square feet of general office space;
- 45,000 square feet of educational space;
- 50,000 square feet of government space;
- 100,000 square feet of recreational space; or
- 45,000 square feet of space not identified above.

Several additional items are being included as part of the proposed changes, including:

- Clarification to the "Development Project" and "Transit and Transportation Project" definitions;
- Removal of the URBEMIS reference, as the District no longer uses the URBEMIS method but uses CalEEMod instead;
- Removal of the \$50,000 minimum fee deferral qualifier and initial \$50,000 down payment requirement; and
- Clarification to the reporting requirement for a change of ownership of a development project.

*Yorke Engineering, LLC specializes in air quality and environmental consulting for stationary and mobile sources, including dispersion modeling, health risk assessments, permitting, emission inventories, air quality compliance systems, etc. Yorke Engineering has assisted over 550 customers, including a wide variety of industrial facilities and government organizations throughout California.*