

Air Quality Update

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ADVANCED CLEAN TRUCKS REGULATION

The “Advanced Clean Trucks Regulation,” or ACT Regulation, was adopted by the California Air Resources Board (CARB) on June 25, 2020. The new regulation requires truck manufacturers in California to transition from selling on-road diesel trucks and vans greater than 8,500 pounds (lbs) gross vehicle weight rating (GVWR) (Class 2b through Class 8), to selling electric zero-emission trucks and vans beginning in 2024. The goal is for new trucks and vans sold in California to be zero-emissions by 2045.

The new regulation includes a one-time Large Entity Reporting requirement for entities that meet any of the following:

- Any business in California with more than \$50 million in gross annual revenue in 2019; or
- Large fleets in California with 50 or more vehicles with GVWR greater than 8,500 lbs in 2019; or
- Brokers in California that dispatched 50 or more vehicles with GVWR greater than 8,500 lbs in 2019; or
- Any California or federal government agency in California with one or more vehicles with GVWR greater than 8,500 lbs in 2019.

The Large Entity Reporting requirement includes submitting a one-time survey for the fleet on any day of the entity’s choosing after January 1, 2019. The survey must be submitted online through CARB’s Advanced Clean Trucks webpage by April 1, 2021. Information to be reported includes general entity information, contact person information, vehicle usage information by facility, vehicle home base information, and vehicle operating

characteristics. There are exemptions from this reporting requirement for school bus fleets, transit agencies subject to the Innovative Clean Transit regulation, light-duty vehicles dispatched but not owned by transportation network companies, military tactical vehicle fleets, and emergency vehicles.

HEAVY-DUTY VEHICLE FUNDING OPPORTUNITIES

Several incentive programs are available for purchasing new heavy-duty vehicles. The requirements and funding availability are different for each program, and additional information can be found at the links provided below.

The **Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)** provides funding for cleaner, more efficient trucks and buses beginning in late 2020.

<https://www.californiahvip.org>

The **Volkswagen Environmental Mitigation Trust for California** has funding for buses, freight and drayage trucks, freight and marine projects, and zero-emission vehicle infrastructure beginning in the third quarter of 2020.

<https://ww2.arb.ca.gov/our-work/programs/volkswagen-environmental-mitigation-trust-california>

Carl Moyer Program grants are available through local air districts for heavy-duty on- and off-road equipment.

<https://ww2.arb.ca.gov/our-work/programs/carl-moyer-program-state-reserve>

The **Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program** provides funding through local air districts for agricultural equipment.

<https://ww2.arb.ca.gov/our-work/programs/farmer-program>

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Air Quality Tip

Assembly Bill (AB) 617 emissions inventories have begun to be reported to CARB. Ensure that your facility’s emissions quantification is not utilizing over-estimating emission factors, but facility-permitted emission limits, source test data, or manufacturer’s data, as available. For more information, visit CARB’s website at:

<https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting/about>

Upcoming Online EH&S Training Offered by Yorke Engineering – Each Session Is Presented Over 4 Half-Days

- San Joaquin Valley Air Quality Regulations, Permitting, and Compliance Seminar: Nov. 4, 5, 11, 12, 2020
- California Multi-Media Environmental Regulations: Permitting, Compliance, and Reporting Seminar:
Session 1 – Sept. 29, 30, Oct. 6, 7, 2020
Session 2 – Oct. 26, 27, Nov. 2, 3, 2020
Class Info at: <http://yorkeengr.com/classes>

Upcoming Due Dates for 2020/2021*

- CARB GHG Cap-and-Trade Annual Compliance Surrender 11/1/20
- CARB Off-Road Diesel Compliance for All Fleets, by Fleet Target or BACT 1/1/21
- CARB On-Road HDDVs Must Be Repowered, Retired, or Low-Use..... 1/1/21
 - If > 26,000 GVWR, EMY 2004 or Older
 - If < 26,000 GVWR, EMY 2006 or Older
- CARB On-Road TRUCRS Reporting for Flexibility Options... 1/31/21
- CARB Off-Road DOORS Reporting for All Fleets 3/1/21
- CARB PERP Reporting: Equipment Unit Throughput, Low-Use Hours ... 3/1/21
- CARB Refrigerant Reporting for Med./Lrg. Systems (≥ 200 lbs)..... 3/1/21
- CARB GHG Reporting for Semiconductor Operations 3/1/21
- Semi-Annual Title V Report...Semi-Annually
- Annual Title V Compliance Cert... Annually
- Title V – Application for Permit Renewal – Due 180 Days Prior to Permit Expiration

**Due dates listed are statutory dates; sometimes dates are extended when on a weekend/holiday.*

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The **San Joaquin Valley Air Pollution Control District (SJVAPCD)** has incentives available for trucks, off-road equipment, electric vehicle infrastructure, and more.

<https://valleyair.org/grants>

SJVAPCD ADOPTED RULE CHANGES

For full details on changes below, go to: http://www.valleyair.org/rules/rules_recently_adopted.htm

▪ **Rule 4601: Architectural Coatings**

On April 16, 2020, the SJVAPCD amended Rule 4601, which limits volatile organic compound (VOC) emissions from architectural coatings. Key changes to the rule begin January 1, 2022, and include:

- VOC limits for new coating categories, including building envelope coatings, interior stains, and tile and stone sealers;
- Establishing VOC limits for colorants added to architectural coatings, industrial maintenance coatings, and wood coatings; and
- Changes to VOC limits for existing coating categories, including non-flat coatings (including high-gloss coatings), aluminum roof coatings, dry fog coatings, fire-resistant coatings, floor coatings, form-release compounds, stains, and waterproofing membranes.

SJVAPCD PROPOSED RULE CHANGES

For full details on changes below, go to: http://www.valleyair.org/Workshops/public_workshops_idx.htm

▪ **Rules 4306 and 4320: Boilers, Steam Generators, and Process Heaters**

The SJVAPCD held a rulemaking workshop on July 30, 2020, to discuss potential modifications to Rules 4306 and 4320, which regulate emissions from boilers, steam generators, and process

heaters with a heat input greater than 5 million British thermal units (MMBtu) per hour (hr). Boilers operating within the SJVAPCD are required to meet the emission limits specified in Rule 4306. Rule 4320 established stricter emission limits, but allows operators to select one of three compliance options, i.e., meet emission limits, pay annual emission fees, or limit fuel use to ≤ 1.8 billion British thermal units (BBtu) per year (yr). Proposed rule amendments discussed during the presentation included:

- Reducing Rule 4306 nitrogen oxides (NO_x) emission limits to between 5 and 9 parts per million (ppm) depending on the group category;
- Further expanding the rule categories to allow for different limits based on cost-effectiveness and technological feasibility; and
- Further evaluation of potential NO_x limits for Rule 4320 (a December 2019 workshop indicated potential limits as low as 2 ppm).

▪ **Rule 4311: Flares**

The SJVAPCD held a public workshop to discuss potential modifications to District Rule 4311. Current rule requirements include low-NO_x emissions, reporting, and flare minimization practices. Proposed rule concepts include:

- Loss of exemptions for non-major sources and landfills;
- Ultra-low-NO_x emission limits:
 - 0.018 lb/MMBtu for oil and gas operations;
 - 0.025 lb/MMBtu for flares fired on digester gas at major sources and landfill gas; and
 - 0.06 lb/MMBtu for digester gas-fired flares at non-major sources; and

- Potential exemptions from ultra-low-NO_x limits for units used < 200 hr/yr, various location permits, and propane-only units.

UPDATE ON AB 617 BARCT RULE EVALUATION

As part of AB 617 requirements, the SJVAPCD is conducting an expedited review of Best Available Retrofit Control Technology (BARCT) emission limits for existing sources. As part of the evaluation, the District is analyzing existing rules to determine if the maximum degree of emissions reductions have been achieved while accounting for environmental, energy, and economic impacts. A recent update of the review process found that the following rules meet BARCT requirements:

- Rule 4454: Refinery Process Unit Turnaround;
- Rule 4641: Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations; and
- Rule 4104: Reduction of Animal Matter.

The following rules will undergo a combined rule development process in 2020 to explore opportunities to enhance the stringency of the leak detection and repair (LDAR) requirements:

- Rules 4409 and 4455: Components at Light Crude Oil Production Facilities, Natural Gas Production and Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants;
- Rules 4623 and 4624: Storage and Transfer of Organic Liquids; and
- Rule 4401: Steam-Enhanced Crude Oil Production Wells.

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 1,150 customers, including a wide variety of industrial facilities and government organizations throughout California.