



AIR ISSUES & REGULATIONS COMMITTEE
A Committee of the Bay Area Clean Water Agencies

Quarterly Meeting
December 11, 2024

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Agenda

- Introductions
- BACWA-BAAQMD Implementation Workgroup
- BAAQMD Anaerobic Digestion White Paper
- BAAQMD Permit Prioritization
- BAAQMD Standard Permit Conditions
- BACT and/or TBACT Standby Engine Updates
- Rule 11-18 Amendments
- CARB Statewide Air Toxics Pooled Emissions Study
- Informational Items
- CARB Advanced Clean Fleet Regulations Implementation Timeline/Requirements
- Open Discussion/Member Updates
- Adjourn



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BACWA-BAAQMD Implementation Workgroup Updates from September 23rd Meeting

- Updates
 - Nutrient Permit
 - Permit Timelines and Staffing
- Outlook on Engagement
 - Update from BAAQMD on Strategic Plan and Resulting Rulemaking Priorities
 - Update from BACWA on Status of Edits to Standard Permit Conditions
 - BAAQMD Source Testing
 - Update from BAAQMD on Future BACT Determination Process and Guidebook Updates
 - Update from BAAQMD on Status of Rule 11-18 Amendments
 - Update from BACWA on the CASA Statewide Air Toxics Pooled Emissions Study Coordination
 - Report to BAAQMD Board
- Other Opportunities for Collaboration between BACWA and BAAQMD
- Decision/Action Item Summary



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BACWA-BAAQMD Implementation Workgroup Upcoming on January 2025

- Possible Topics
 - Update from BAAQMD on Strategic Plan and Resulting Rulemaking Priorities
 - Update from BAAQMD on Anaerobic Digester White Paper
 - Permit Prioritization
 - Update from BACWA on Status of Edits to Standard Permit Conditions
 - BAAQMD Source Testing
 - Update from BAAQMD on Future BACT Determination Process and Guidebook Updates
 - Update from BAAQMD on Status of Rule 11-18 Amendments
 - Update from BACWA on the CASA Statewide Air Toxics Pooled Emissions Study Coordination
- Other Opportunities for Collaboration between BACWA and BAAQMD



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Anaerobic Digestion White Paper BACWA met with BAAQMD on September 30

- Overview of the White Paper Process
 - History and Goals of Rule 13
 - Harmonization of state and local objectives
- BAAQMD Interest in Anaerobic Digestion
 - SB 1383
 - How are POTWs dealing with the regulation? Challenges? Opportunities?
 - Current Biogas Capture Process
 - Descriptions of operations
 - Discussion of economic viability
 - BAAQMD specifically interested in waste/energy co-benefits with air pollution reduction and any current/planned hydrogen projects
 - Current BAAQMD Involvement
 - Feedback on current processes (source testing/permitting/monitoring)



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BAAQMD Permitting Meeting BACWA met with BAAQMD December 9

- BAAQMD permitting procedures
 - Permit application vs processing capacity
 - Bottlenecks
 - Prioritization of permitting efforts
- BACWA member agencies permitting issues
 - Number of current in-process permits
 - BACWA member capital priorities
 - Capital planning vs permitting timelines
 - Incorporating permit review timelines into capital planning
- Next Steps:
 - BAAQMD has requested estimate of future permit application increase
- Suggestions as to how to respond to this request?
 - Number of upcoming CIP projects
 - Other ideas?



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BAAQMD Standard Permit Conditions

- Developing standard permit conditions to streamline permitting
- SPCs for 3 processes in development
 1. Cogeneration Engines
 2. Anaerobic Digesters
 3. Food Waste Receiving Stations
- Next subcommittee Meeting on December 16 at EBMUD



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BACT and TBACT Standby Engine Updates

- BAAQMD issued BACT/TBACT for mid-size engines between 50 – 1000 HP
- Effective December 2, 2024
- Tier 4 Standards options
 - EPA certified Tier 4
 - Tier 4 Compliant : packaged by the engine manufacturer with abatement equipment
 - Tier 4 Retrofit: lower tier engine with after market abatement from third party vendor



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Proposed Amendments to Rule 11-18: Risk reduction from Air Toxics emissions at Existing Facilities

- Originally adopted in 2017 to address significant risk from existing facilities
- Annual update of facilities list based on prioritization score (check your facility's PS)
- Concept Paper & Proposed Amendments (December 2023)
- BAAQMD response to BACWA Comment Letter (2/29/2024)
 - Simultaneous review of Preliminary HRA by facility and public
 - POTWs status in Phase II to allow for participation in Pooled Emission Study
 - Early risk reduction to the extent feasible
 - HRAs performed by consultant v. BAAQMD staff
- BAAQMD issued updated Implementation Procedures (April 2024)
- Anticipate draft language **late summer/early fall 2024 Q1 2025**
- Anticipate additional updates to IP based on proposed amended rule



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CARB Statewide Air Toxics Pooled Emissions Study: Criteria Pollutants & Air Toxics Reporting

- AB 617 and AB 2588 were updated to “harmonize” air monitoring, reporting, & emission reductions from stationary sources in CA for a long list of compounds
- **POTWs must participate in a two-step process (individually or as a group) to determine a shortlist of compounds to be monitored and reported**
 1. Scan air space of unit processes to determine detectable compounds
 2. Perform sampling and analysis to ultimately quantify emissions of detectable compounds (Mimic 1990 Pooled Emissions Estimation Program, PEEP, but broader in scope)
- Report business-as-usual through 2028 while performing two-step process (reporting begins in 2029 for 2028 data)



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CARB Statewide Air Toxics Pooled Emissions Study: Criteria Pollutants & Air Toxics Reporting

- BACWA distributed a request from CASA to participate in the Statewide Air Toxics Pooled Emissions Study, which comes with benefits to the wastewater sector:
 - Representative POTW Source Testing Cost Savings
 - Administrative Cost Savings
 - Streamlined Project Management and Execution
 - Coordinated Statewide Action
 - Single Reference for Emission Factors for Future Use
- Who should participate or who does this apply to?
 - ≥5 MGD average annual daily flow, uncovered primaries
 - ≥10 MGD average annual daily flow, covered primaries



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Updates & Next Steps

- CASA Steering Committee is working with Project Manager (Yorke Engineering) to produce Draft Emissions Quantification Plan by end of Fiscal Year 2025
- CASA distributed a summary of the Statewide Pooled Emissions Study and requested participation, BACWA shared it with members
- Ongoing updates will be provided and opportunities for you to provide input via CASA's Air Toxics Subgroup (Next meeting: Today! December 11th, 1-2 pm)



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Informational Items

- Portable Engines
- 2024 State Legislative Process



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Portable Engines

- Phase-out date: December 31, 2024
- Pre-2009 engines
- Applies to
 - Tier 2 >750 bhp
 - Tier 3 50-750 bhp, large fleets *
- To extend operation, must submit a modification request to add a properly functioning level-3 verified diesel emission control technology

** Large fleets = total cumulative horsepower over 750 bhp for all portable engines under common ownership and control of the fleet*



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2025 State Legislative Process

- 2025 Bills to be introduced by February 21st
 - CASA to search these using key words
- Expecting multiple bills to focus on defining green hydrogen (potentially impacting the eligibility of biogas to hydrogen)



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Reducing Transportation GHGs: ACCII & ACF Regulations



Advanced Clean Cars II

- Applies to light-duty passenger car, pickup truck and SUV emissions starting with 2026 model year through 2035
- Requires new vehicles sold in CA be zero-emission by 2035 (manufacturer focus)
- Amends low-emission vehicle regulations to include more stringent standards for passenger trucks

Advanced Clean Fleets

- Applies to medium- and heavy-duty vehicles with gross vehicle weight rating >8,500 lbs
- Requirements for both manufacturers and fleet owners
- Fleet owners are required to replace conventional vehicles with zero-emission vehicles or ZEV (timelines vary based on fleet owner and vehicle type)
- ZEVs (e.g., battery electric and hydrogen fuel cell)



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CARB's ACF Regulations/Resolution



Applies to gross vehicle weight rating >8,500 lbs (medium- and heavy-duty vehicles)

1. State & Local Government Agency Fleets

(cities, counties, special districts, State agencies)

2. High Priority & Federal Fleet Requirements

(POTWs can opt in until 2030 – if opt in, can't opt out)

3. Drayage Truck Requirements

4. 2036 100 Percent Medium- and Heavy-Duty Zero-Emission Vehicle Sales Requirements

Contain requirements/schedules for POTWs!



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Do AB 1594 amendments change access to provisions in ACF?



- Signed October 8, 2023, applies to public agencies – community water systems, water districts, wastewater treatment providers.
- Authorizes public agencies to “...purchase traditional replacements for medium- and heavy-duty vehicles at the end of their useful life...when needed to maintain reliable service and respond to major foreseeable events...**without regard to the model year of the vehicle being replaced.**”
- ACF regulations re-opened March 25th to incorporate AB 1594 requirements
- CARB limited amendments to two exemptions: Daily Usage and ZEV Purchase Exemptions
- CASA submitted comments May 20th, September 3rd and met with CARB staff June 26th
- CASA is coordinating with CMUA, ACWA, SCPPA, NTPA to have united front
- **Workshop held October 3rd to discuss draft rulemaking language (released October 1st)**
 - Vehicle age requirements to access exemptions removed
 - Allows public agencies access to both exemptions if vehicle being replaced is part of a Vehicle Replacement Purchase Plan
- Amendment process to be complete by early 2025



EPA has yet to approve CARB's requested waivers to be able to enforce the ACF regulations

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CARB ACF Regulations: Reporting Requirements



- Registration and reporting deadlines have passed, but you can still register your vehicles:
 - February 1, 2024 – High Priority & Federal Fleets Requirements
 - April 1, 2024 – State & Local Government Agency Fleets
- Register fleet and submit information to CARB electronically via its online reporting system known as the Truck Regulation Upload, Compliance, and Reporting System (TRUCRS, pronounced “truckers”)
- Reporting guidance is available at the TRUCRS site
- Any fleet changes following registration must be reported within 30 days of change



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Open Discussion / Member Updates

- Food Waste Permitting
- Other topics?



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Open Discussion / Member Updates

- BACWA/BAAQMD Implementation Workgroup Meeting – January 13th
- CASA 2025 Winter Conference – January 29- 31 (Palm Springs, CA)
- CWEA Annual Conference – April 22 – 25 (Palm Springs, CA)
- BACWA – May 2nd (David Brower Center, Berkeley, CA)
- CASA 2025 Annual Conference – August 13-15 (San Diego, CA)
- **Next Quarterly Meeting: March 19**



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Thank You – Happy Holidays!



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