



AIR ISSUES & REGULATIONS COMMITTEE

A Committee of the Bay Area Clean Water Agencies

Winter Committee Meeting BAAQMD/BACWA AIR Roundtable

San Francisco

March 13, 2013 - 10:00 am – 1:00 pm

Introductions & Opening

Agenda

- **10:00 – 10:10 Welcome & Introduction (Greg Stone)**
- **10:10 – 10:30 Reciprocating IC Engine (RICE) NESHAP Rule (Kevin Oei)**
- **10:30 – 10:50 Rule Development (Robert Cave)**
 - Backup Generators
 - Composting
- **10:50 – 11:15 Bay Area PM – Attainment versus Non-Attainment (David Burch)**
- **11:15 – 12:00 Regulation 2 Permitting Rule Changes (Sandy Crockett)**
 - General Overview
 - PM2.5 & NO2 standards
 - GHG PSD & Title V
 - Incorporate PM2.5 into Emission Banking rule (Greg Stone)
 - Question & Answer on Regulation 2 changes (Sandy & Greg)
- **12:00 Lunch Served**
- **12:00 – 1:00 BACWA AIR Business**



Agenda (*time permitting*)

- Regulatory Updates
 - I. State Regulatory News
 - II. National Regulatory News
- Grant Opportunities
- AIR Business Items
- Closing



Local Regulatory News

BAAQMD Presentations

Separate Slides

State Regulatory News

State Regulatory News

Mandatory Reporting

California Mandatory Reporting Rule

Key modifications that impact most POTWs:

- GSC Reporting threshold lowered from 25,000 metric tons/year of CO₂ to 10,000 metric tons/year of CO₂e
 - Includes both biomass and fossil fuel combustion emissions
 - Facilities with emissions between 10,000 & 25,000 metric tons/year may file an abbreviated report and will not be required to undergo third-party verification.
- Cogeneration category (> 1 MW power & 2500 metric tons/yr of emissions) has been eliminated
 - Cogen facilities with emissions > 10,000 metric tons/year of CO₂e will report as electricity generation sources
 - Cogen facilities with emissions < 10,000 metric tons/year of CO₂e can drop out



CARB Mandatory Reporting Rule Amendments, effective January 1, 2013

- §95103(a-j) add process emissions to Abbreviated Reporting. However POTWs are not a listed industry sector for this requirement
 - Since there is no method to reliably measure $\text{NDN N}_2\text{O}$ at this time, neither the ARB nor the USEPA requiring it.
- §95103(k) adds testing requirements for meters and other measurement devices to demonstrate accuracy between calibrations.
 - Patrick Gaffney/CARB: *Annual accuracy validation of equipment (meters) no longer required; it's now an option*
 - Requirements apply to “covered emissions” - all emissions included in compliance obligation under Sections 95852 – 95852.2 of C&T, regardless of whether the C&T reg. imposes a compliance obligation for the data year
 - If your facility falls into C&T with a compliance obligation (i.e., anthropogenic general stationary combustion emissions > 25,000 MT CO₂e)



CARB Mandatory Reporting Rule Amendments, effective January 1, 2013

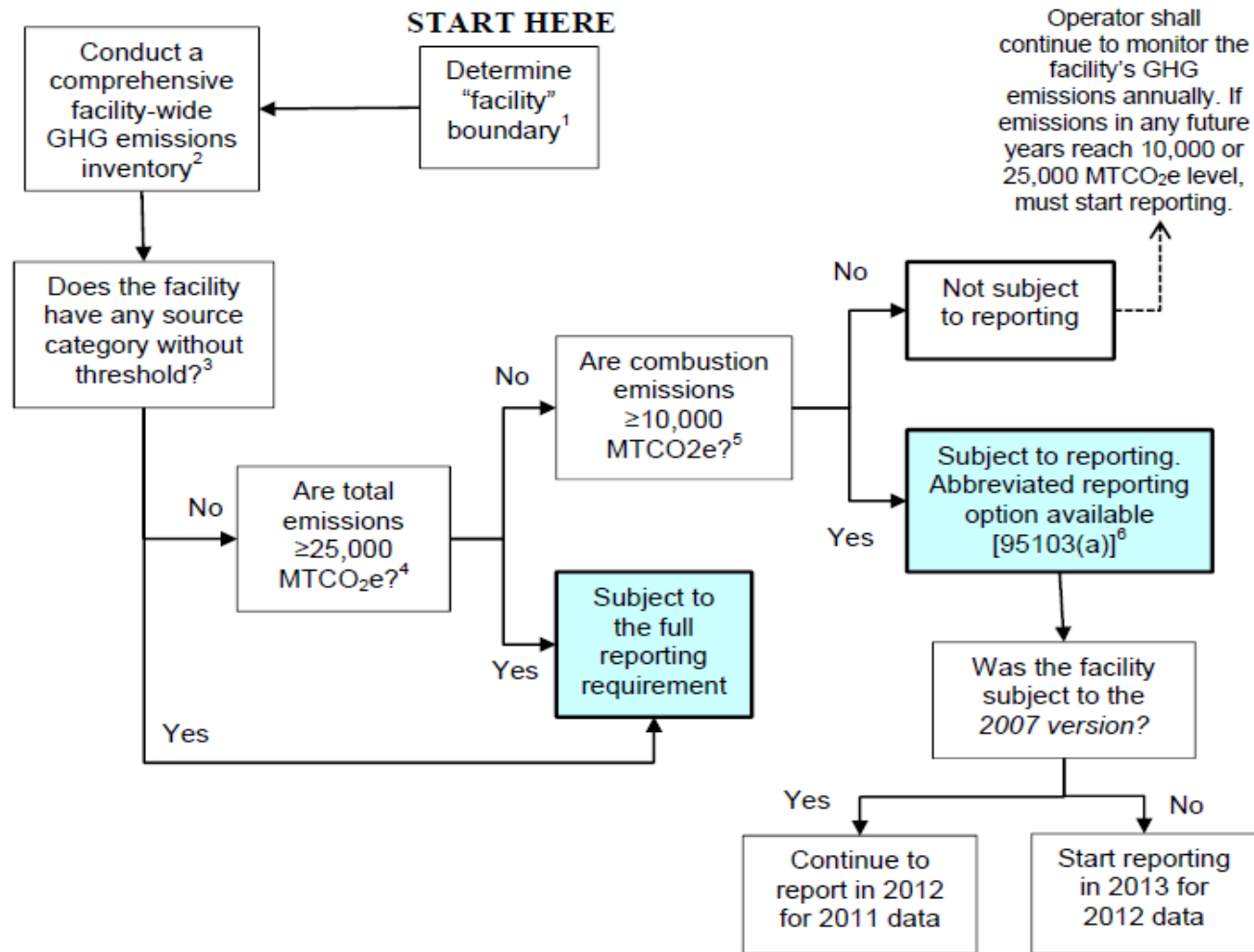
- Amendment added a re-requirement in §95115(n) for reporting of biogas flaring emissions. However Gaffney said flaring is now exempt from emissions reporting
- Update to §95112(b): *“For an electricity generation system (a cogeneration system, a bigeneration system, a combined cycle electricity generation system, or a system with boilers and steam turbine generators), the operator may aggregate all the units that are integrated into the system for the purpose of reporting data to ARB.”*



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Determining Rule Applicability for a Facility



Key Dates for Mandatory Reporting

- *February 13th*: Cal e-GGRT activated for reporting 2012 data due in 2013
- *April 10th*: Reporting deadline, except when subject to abbreviated reporting
- *June 3rd*: Reporting deadline for submitting Electric Power Entity reports and for those subject to Abbreviated Reporting
- *September 3rd*: Final verification statements due for all reports, except when subject to abbreviated reporting
- <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-dates.htm>



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State Regulatory News

PERP: New Fleet Emission Requirements

PERP: *New Fleet Emission Requirements*

- Beginning January 1, 2013 portable diesel engines registered in PERP or operating under air district permits must comply with weighted PM emission fleet averages expressed as g/bhp-hr
- Requirements are part of the ATCM for diesel PM from portable engines
- Fleet emission requirements to become more stringent in January 2017 and 2020; Plan accordingly



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PERP: *New Fleet Emission Requirements*

Below are the standards effective January 1, 2013:

Engine Size Category in Fleet	50 to less than 175 hp	175 to 750 hp	Greater than 750 hp
Weighted PM Fleet Average	0.3 g/bhp-hr	0.15 g/bhp-hr	0.25 g/bhp-hr



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PERP: *New Fleet Emission Requirements*

If your fleet average emissions are above the standard you must clean up your fleet by using the following options:

- Replace older, dirtier engines with newer, cleaner engines
- Replace diesel engines with electric power
- Install add on controls to engines such as an approved diesel particulate filter (DPF)

See below for more information:

<http://www.arb.ca.gov/portable/perp/2013changes.pdf>



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Portable ATCM Compliance

- March 1, 2013: Reporting date for companies with portable diesel engine fleets subject to the Portable ATCM
- Information on these requirements and how to calculate your fleet's diesel particulate matter (PM) emissions is in this link:

<http://www.arb.ca.gov/portable/perp/2013changes.pdf>

- Fleet Emission Calculators:

- Can be used to determine the weighted PM emission average rate for the engines in your fleet
- Allow you to experiment with different turnover, repower, and retrofit strategies to plan for compliance with the Portable Diesel Engine ATCM

For more information and to access the fleet calculators:

<http://www.arb.ca.gov/portable/portable2.htm>



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State Regulatory News

**CARB's Diesel Regulations
Compliance Training**

CARB's Diesel Regulations Compliance Training

- Free training courses that will help diesel vehicle owners and operators, brokers, dealers, maintenance personnel, and fleet managers understand requirements and technologies for complying with California's diesel vehicle regulations
- Courses #504 & #505 - In-Use Off-Road Diesel Vehicle Regulation Training & LSI Fleet Regulation
 - Closest location: Santa Rosa on April 3rd
 - All other trainings in S.Lower Central Valley & Southern California between March 20 – April 18th

For more information:

<https://ssl.arb.ca.gov/training/courses.php?course=504>



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State Regulatory News

OEHHA's Development of Biomethane Standards

OEHHA's Development of Biomethane Standards

- Pursuant to AB 1900, the Office of Environmental Health Hazard Assessment (OEHHA) is tasked with compiling a list of constituents of concern found in biogas that could pose a health risk & that are at levels that significantly exceed the concentrations of those constituents in natural gas
- CARB is tasked with:
 - developing realistic exposure scenarios & identifying the associated health risk to utility workers and gas end users
 - determining the concentrations of these constituents in biogas necessary to protect public health
 - identifying monitoring, testing, reporting, and recordkeeping requirements necessary to ensure that health protective levels are maintained
- We will track the development of the standards, which will be finalized on or before 12/31/13

For more information:

<http://www.arb.ca.gov/energy/biogas/biogas.htm>



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National Regulatory News

National Regulatory News

EPA's Guide Book: Preparing for Climate Change

EPA's Guide Book: Preparing for Climate Change

- A Guidebook for Local, Regional, and State Governments
- Published in 2007 by ICLEI-Local Governments for Sustainability, presents a detailed, easy-to-understand process for climate change preparedness based on familiar resources and tools
- Includes resources for wastewater treatment plants for planning for climate change
- Go to the following link for this guide and other resources
 - [http://www.icleiusa.org/climate_and_energy/Climate Adaptation Guidance/free-climate-adaptation-resources](http://www.icleiusa.org/climate_and_energy/Climate_Adaptation_Guidance/free-climate-adaptation-resources)



**National Regulatory
News**

**EPA's New Climate Change
Adaptation Webinar Series**

EPA's New Climate Change Adaptation Webinar Series

- EPA's Climate Ready Water Utilities (CRWU) initiative is beginning a new series of webinars for the water sector, which includes drinking water, wastewater & stormwater utilities
 - These 45 to 60 minute webinars will assist the water sector in developing a better understanding of climate change, managing impacts and creating adaptation strategies
 - Topics include climate change readiness and an introduction to climate science for the water sector, followed by more in depth discussions of CRWU tools
 - Also feature case studies from utilities that have used CRWU tools to become more climate ready
- Series began on Wednesday, January 23 and will take place approximately twice a month through the summer of 2013
- To register, view the “Training Calendar” tab at www.epa.gov/climateredyutilities



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National Regulatory News

EPA Proposes 2013 Renewable Fuel Standards

EPA Proposes 2013 Renewable Fuel Standards

- EPA is proposing the 2013 percentage standards for four fuel categories that are part of the agency's Renewable Fuel Standard program (RFS2)
- The Energy Independence and Security Act of 2007 established the program and the annual renewable fuel volume targets, which steadily increase until 2022
- Proposal's 45-day public comment period ends March 17th
- EPA's RFS2 program encourages greater use of renewable fuels, including advanced biofuels



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EPA Proposes 2013 Renewable Fuel Standards

The proposed 2013 overall volumes and standards are:

- Biomass-based diesel (1.28 billion gallons; 1.12 percent)
- Advanced biofuels (2.75 billion gallons; 1.60 percent)
- Cellulosic biofuels (14 million gallons; 0.008 percent)
- Total renewable fuels (16.55 billion gallons; 9.63 percent)

More information on the standards and regulations:

<http://www.epa.gov/otaq/fuels/renewablefuels/regulations.htm>



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Additional Items

Additional Items

Grant Opportunities

California Financing Coordinating Committee (CFCC) Funding Fairs

- Free funding fairs to educate public and potential customers about different member agencies and the financial and technical resources available
 - provide opportunities for economic development professionals and local government officials to obtain information about grant, loan and bond financing options that are *available for critical infrastructure projects*
- Fairs to be conducted b/w April – October at West Sacramento, Ukiah, Salinas, Visalia, Cathedral City, and Sacramento
- Eligible infrastructure projects include: wastewater projects, water use efficiency, water quality, water supply
- Attendee Registration: Go to www.cfcc.ca.gov and click on Funding Fairs



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State Water Board's Clean Water State Revolving Fund Program

- CWSRF is still accepting applications on a continuous basis
- Eligibility: Any city, town, district, or other public body created under state law
- Offers low interest financing agreements for water quality projects
 - Annually, the program disburses between \$200 and \$300 million to eligible projects
- Eligible projects include - Wastewater Treatment Facility Construction Projects, local sewers, etc.

For application and instructions:

www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/srf_forms.shtml



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Strategic Growth Council

Urban Greening Grant Program

- Program grants funds for urban greening plans and projects in urban areas that reduce GHG and provide multiple benefits, including but not limited to
 - A decrease in air and water pollution
 - A reduction in the consumption of natural resources and energy
 - An increase in the reliability of local water supplies
 - An increased adaptability to climate change
- Currently accepting project concept proposals for the third and final round of Urban Greening *project grants*
- Solicitation for urban greening *planning grants* to be announced this summer

For more info: http://resources.ca.gov/grant_programs.html#



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CARB's Clean Vehicle Rebate Project (CVRP)

- Rebate funding for Hybrid & Zero-Emission Vehicles
- Program is designed to accelerate the number of ultra-clean vehicles sold in CA & help establish a sustainable market
- Rebates of up to \$2,500 per light-duty vehicle are available for individuals and business owners who purchase or lease new eligible zero-emission or plug-in hybrid electric vehicles
- Funding expected through 2015, will be first-come, first-serve
- Funding amounts determined annually by CARB

For application and instructions:

<http://energycenter.org/index.php/incentive-programs/clean-vehicle-rebate-project>



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Additional Items

AIR Business Items

BACWA AIR Budget Update

Total Budget for FY 12/13: \$74,436

- Spent : \$36,875
- Spent to date: 50% through March 8th



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BACWA AIR – *Membership:* FY 2013-14

- Solicitation for next phase of the BACWA AIR Committee in 2013/2014
- Membership forms will be sent out soon.
- Cost will not increase
 - \$600/MGD up to a maximum of \$6,000



Closing

Next Meeting: Wednesday, May 15th 2013

Any ideas for plant tours or guest speakers?