



AIR ISSUES & REGULATIONS COMMITTEE

A Committee of the Bay Area Clean Water Agencies

Fall Committee Meeting

October 25, 2012

10:00 am – 1:00 pm

Introductions & Opening

Agenda

- Introductions and Opening
- Site tours of SFPUC
 - CAMBI Project (Food Waste Digestion and Thermal Hydrolysis Pilot Study)
 - Greasecycle Program
- Regulatory Updates
 - I. Local Regulatory News
 - II. State Regulatory News
 - III. National Regulatory News
- Grant Opportunities
- AIR Business Items
- BAAQMD Advocacy
- Closing



Local Regulatory News

Local Regulatory News

BAAQMD:

- Amendments to Reg. 2, Rules 1, 2, 4 and 6
- Adoption of Fine Particulate Matter Emission Inventory

BAAQMD: Amendments to Reg. 2 and PM_{2.5} Emissions Inventory

- November 7, 2012, BAAQMD Board public hearing:
 - (1) adoption of proposed amendments to Regulation 2 Permits
 - Rule 1: General Requirements
 - Rule 2: New Source Review
 - Rule 4: Emissions Banking
 - Rule 6: Major Facility Review
 - (2) adoption of a District Emissions Inventory for fine particulate matter (PM_{2.5}) for year 2010.
- These amendments will be submitted to the USEPA for:
 - Approval
 - Revise the CA State Implementation Plan (SIP)



BAAQMD: Amendments to Reg. 2 and PM_{2.5} Emissions Inventory

- Purpose:
 - Incorporate recent U.S. EPA requirements for NO₂, PM_{2.5}, and GHG Prevention of Significant Deterioration (PSD) & Title V permitting
 - Make it consistent with recent changes in Fed. requirements, so BAAQMD can issue PSD and New Source Review (NSR) permits
 - Obtain approval of its SIP
 - Clean Air Act requires SIPs for areas in non-attainment of air quality standards



BAAQMD: Amendments to Reg. 2 and PM_{2.5} Emissions Inventory

- Potential impacts to BACWA POTWs:
 - Most of the changes will affect major facilities
 - Facilities that apply for new or modified permits for sources of PM_{2.5} will be subject to a new BACT
 - BAAQMD will list PM_{2.5} as a criterion pollutant
 - BACT for any new project with PM_{2.5} > 10 lbs./day
 - Only enforceable by BAAQMD until the SIP is updated and then the USEPA can also enforce under Title V.
 - NH₃ is a precursor to PM_{2.5} and so NH₃ will be regulated as both a Toxic Air Contaminant and a PM_{2.5} precursor
 - For CCCSD, biggest impact is more fees for the PM_{2.5} precursor
 - PM_{2.5} limitations can always be imposed if required as a mitigation under a CEQA finding
 - Smaller facilities that are not applying for new or modified permits will not be affected by the rule changes

BAAQMD: Amendments to Reg. 2 and PM_{2.5} Emissions Inventory

Additional details:

- Regulatory Amendments: <http://www.baaqmd.gov/Divisions/Engineering/Proposed-Reg-2-Changes.aspx>.
- Emissions Inventory: <http://www.baaqmd.gov/Divisions/Planning-and-Research/Plans/PM-Planning.aspx>



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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



Proposed Mandatory Reporting Rule Amendments to CARB on Sept 20, 2012

- §95103(a-j) add process emissions to Abbreviated Reporting. However POTWs are not a listed industry sector for this reporting requirement.
- §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*



Proposed Mandatory Reporting Rule Amendments to CARB on Sept 20, 2012

- The proposed rule change in the spring added a re-requirement in §95115(n) for reporting of biogas flaring emissions. However Gaffney said flaring is now exempt from emissions reporting
- Proposed for §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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California Mandatory Reporting Rule – Cogen Facilities

Recommended Measures for Former Cogen Reporters:

- Document Retention and Record Keeping Requirements
 - 10 yrs after certification with a C&T compliance obligation
 - 5 yrs w/o comp obligation
- Continue to Informally Estimate GSC GHG Emissions
 - High Heat Value (HHV) Measurements
 - Continue to measure
 - Use 841 Btu/scf EPA default
 - Use previous highest measured value



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State Regulatory News

CARB's C&T Program Compliance Instrument Tracking System Service

CARB's Compliance Instrument Tracking System Service

- CARB's C&T program became effective on January 1, 2012; to be enforced with calendar year 2013 GHG emissions
- All CA covered entities should have completed program registration with CARB by January 31, 2012
- CARB staff developed the Compliance Instrument Tracking System Service (CITSS) to support C&T Reg; released on July 9th 2012
- Primary purpose of CITSS is to serve as account & transaction registry to accommodate:
 - Account management for compliance entities, including industrial sources and non emitting units (e.g., load-serving entities)
 - Account management for non-compliance entities, including registry administrators, government agencies or representatives, brokers, non-governmental organizations, and private citizens
 - Allowance and offset transaction tracking and management
- CITSS can be accessed at: <https://www.wci-citss.org>
- Training materials supporting the use of the CITSS
<http://www.arb.ca.gov/cc/capandtrade/markettrackingsystem/markettrackingsystem.htm>



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State Regulatory News

2012 Bioenergy Action Plan

2012 Bioenergy Action Plan

- Key goal of the Bioenergy Action Plan: to increase environmentally and economically sustainable energy production from biomass residues, including wastewater-derived biomass
- Contains more than 50 recommended actions to increase the sustainable use of organic waste, expand research and development of bioenergy facilities, reduce permitting and regulatory challenges, and address economic barriers to bioenergy development
- Developed by state agencies including Natural Resources Agency, Department of Food and Agriculture, California Environmental Protection Agency, California Public Utilities Commission, California Energy Commission, Department of Forestry and Fire Protection (CAL FIRE), CalRecycle, and the State Water Resources Control Board
- To read the 2012 Bioenergy Action Plan, go to: http://www.resources.ca.gov/energy_and_climate_change.html



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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
- Compliance can be determined by determining weighted PM emissions averages for all the engines within each of the 3 categories by using the CARB Fleet Calculator
- Information needs to be reported to CARB by March 1, 2013
- Fleet emission requirements to become more stringent in January 2017 and 2020; Plan accordingly



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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State Regulatory News

Global Launch of ARB Air Quality Training Program

Global Launch of ARB Air Quality Training Program

- Air Quality Training Program (AQTP) on-line course: web based interactive course that consists of ten modules
 - Module 1: The History of Air Pollution
 - Module 2: Defining Air Pollution
 - Module 3: The Role of Government
 - Module 4: The Science of Air Pollution
 - Module 5: Criteria Air Pollutants
 - Module 6: Toxic Air Contaminants
 - Module 7: PM Controls
 - Module 8: VOC Controls
 - Module 9: NO_x Controls
 - Module 10: Greenhouse Gases



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Global Launch of ARB Air Quality Training Program

- Prerequisite for the Uniform Air Quality Training Program (UAQTP) class and Course #299: Theory & Application of Air Pollution Control Devices
- Each module has a review quiz at the end
- When the student completes all ten modules, the quiz scores are totalized and the student receives a certificate
- Registration Step-by-Step:
http://www.arb.ca.gov/training/myarb/doc/online_class_enrollment.pdf
- Registration Link:
<http://www.arb.ca.gov/training/courses.php?course=102>



National Regulatory News

National Regulatory News

- *Any updates from members?*



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Additional Items

Additional Items

Grant Opportunities

Carl Moyer Memorial Air Quality Standards Attainment Program

- Voluntary program that offers grants to owners of heavy-duty vehicles and equipment (off-road equipment, trucks); administered by BAAQMD
- Projects will be selected for funding on a first-come, first-served basis; applications accepted starting July 23rd, 2012
- Grants are available for projects that:
 - Install verified emission control devices
 - Replace older heavy-duty engines with newer and cleaner engines
 - Replace older equipment with newer and cleaner equipment
 - Purchase new equipment that is cleaner than the law requires
 - Install electric idling-reduction equipment
- **Up to \$10 million - Funding available now!**

For more info:

http://www.baaqmd.gov/?sc_itemid=08F9594F-BF34-4A2A-BD38-9A3D0CCFF8F8



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Carl Moyer On-Road Voucher Incentive Program

- Provides funding to reduce emissions from on-road heavy-duty diesel trucks
 - Replace old high-polluting vehicles - maximum funding up to \$45,000
 - Retrofit engine model years 1994 – 2006 – maximum funding up to \$10,000
- Applies to owners & operators of fleets of <10 vehicles; on-road truck with a gross vehicle weight rating (GVWR) of >14,000 pounds
- **Up to \$2 million - Funding available now!**

For more info:

http://www.baaqmd.gov/?sc_itemid=3EC5FE3B-C1E4-419E-8922-97CC438C38DA



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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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CARB's Clean Vehicle Rebate Project (CVRP)

- Rebate funding for Hybrid & Zero-Emission Vehicles; administered by the California Center for Sustainable Energy (CCSE)
- 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 will be provided on first-come, first-served basis; Funding is expected through 2015, with specific 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

BAAQMD Advocacy

BAAQMD Advocacy

- Jim Kelly sent Director Jack Broadbent modified version of our talking points list and had a follow-up conversation with him
 - Jack was sympathetic to our issues and concerns
 - He promised to meet the head of the permits section and get back to Jim, but said he needs time to work out potential solutions
- Jim will follow-up with Jack in 1-2 weeks



Additional Items

AIR Business Items

BACWA AIR Budget Update

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

- Spent : \$17,362
- Spent to date: 23% through Oct 19th



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Closing

Next Meeting: Wednesday, January 16th 2013