





Local Regulatory News



2010 BAAQMD Clean Air Plan

- September 15, 2010, Board adopted the final Bay Area 2010 Clean Air Plan (CAP) & certified its Final EIR
- The CAP is a comprehensive strategy to reduce air pollution from both stationary sources, such as factories & refineries, & mobile sources
- CAP updates the Bay Area ozone plan in compliance with Chapter 10 of the CA Health & Safety Code
- Additionally, the CAP provides an integrated, multipollutant strategy to improve air quality, protect public health, & protect the climate



2010 BAAQMD Clean Air Plan

- The CAP performance objectives are as follows:
 - Reduce PM2.5 exposure by 10% by 2015
 - Reduce diesel PM exposure by 85% by 2020
 - Reduce GHG emissions to 1990 levels by 2020 and 40% below 1990 by 2035
- · Implementation to follow
- More info at:

http://www.baaqmd.gov/Divisions/Planning-and-Research/Plans/Clean-Air-Plans.aspx

AIR ISSUES & REGULATIONS COMMITTEE

2010 BAAQMD Clean Air Plan

Control Strategies

- SSM 6 General PM Emissions Limitation
- SSM 15 GHG in Permitting, Energy Efficiency
- SSM 16 New Source Review Addressing PM 2.5
- SSM 17 New Source Review for Toxic Air Contaminants
- SSM 18 Revisions to Air Toxics Hotspots Program
- MSM A-1 through MSM B-3
- LUM 3 Updated CEQA Guidelines and Enhance CEQA Review
- ECM 1 Energy Efficiency
- ECM 2 Renewable Energy
- FSM 9 GHG Mitigation in BACT and BACT Determinatnions
- FSM 13 Energy Efficiency and Renewable Energy
- FSM 18 GHG Fee

Reg. 9 Rule 8

BAAQMD Regulation 9, Rule 8

- Goal: to reduce NOx and CO from Stationary ICEs
 Spark- and Compression-Ignited
- **Applicable to:** Stationary ICEs >50 bhp (previously ≥250 bhp)
- EBMUD, SJ/SC WPCP, Sunnyvale & CCCSD commented on the draft rule and most comments were addressed by BAAQMD
- Board approved amendments on July 25, 2007

For more info:

- <u>http://www.baaqmd.gov/?sc_itemid=D39A3015-453E-4A0D-9C76-6F7F4DA5AED5</u>
- <u>http://www.baaqmd.gov/pln/ruledev/regulatory_public_hearings.htm</u>

BAAQMD Regulation 9, Rule 8

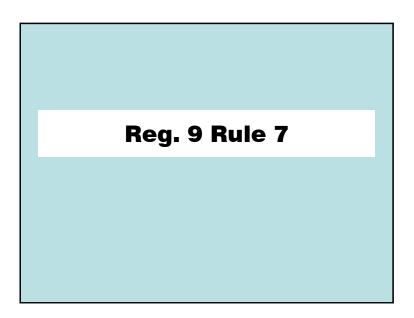
CI Engine Proposed Standards for Existing Engines (g/bhp-hr)

Size (bhp)	NMHC + NOx	NOx Only	СО	Effective Date
50 - 75	3.5	n/a	3.7	1/1/2011
75 - 175	n/a	2.5	3.7	1/1/2012
175 - 750	n/a	1.5	2.6	1/1/2011
>750	n/a	0.5	2.6	1/1/2011

BAAQMD Regulation 9, Rule 8: Impact to POTWs

- Cuts cogen NOx emissions limits from 140 ppm to 65 ppm (natural gas) & 70 ppm (digas)
- 24 lean burn digas engines in Bay Area
- NOx and CO emissions levels are each optimized at the expense of the other
- Reg 9, Rule 8 establishes priority of NOx over CO. However CO gaining greater regulatory attention
- Renewable energy through cogen could be eliminated in the future owing to tighter limits
- Concerns by POTWs going forward???

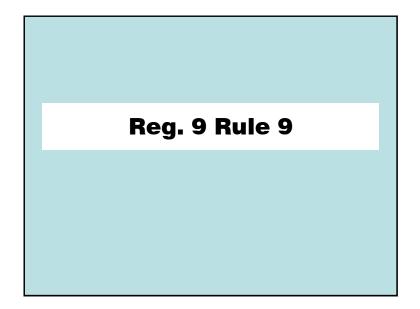
Air Issues & Regulations Committee



BAAQMD Reg 9, Rule 7: Boiler Rule Compliance Schedule

- Annual Tune-up/Inspection Jan. 1, 2009
- Surface Temperature Limit Jan. 1, 2010
- Stack Temperature Limit Jan. 1, 2011
- 15 ppm NOx limit Jan. 1, 2013
- Annual NOx and CO testing Jan. 1, 2013





BAAQMD Reg 9, Rule 9: Stationary Gas Turbine Compliance Schedule

- January 1, 2010
- Alternative Compliance Limits
- NOx Concentration limit
 - 42 ppm for 5-50 MM Btu/hr
- NOx mass/MWhr_u for 5-50 MM Btu/hr
 - 2.12 lbs NOx/MWhr_{utilized}
 - MWhr_u = MW-hr_{electricity} + MW-hr_{steam}



San Francisco Bay Conservation & Development Commission – Regional Strategy for Sea Level Rise

- Discussion of potential to affect POTW
 development
- Proposed for adoption in December 2010
- Joint counter effort by lead by Bay Area Council, Bay Planning Coalition
- Working session: October 19,2010 at Bay Council Headquarters

More Information:

http://www.bcdc.ca.gov/





EPA Mandatory Reporting Tool

- The EPA Electronic Greenhouse Gas Reporting Tool (e-GGRT), a new web-based system in development, is now available
- Reporting Threshold: >25,000 tons of CO2-e from General Stationary Combustion
- Register Online by: January 30, 2011
- Annual report due: March 31, 2011
- Training Webinars are scheduled for November 3 & 17, 2010
- <u>Note</u>: EPA is working on coordinating with State GHG Reporting Regulations, but currently you must submit 2 separate reports

More Information:

http://www.epa.gov/climatechange/emissions/ data-reporting-system.html



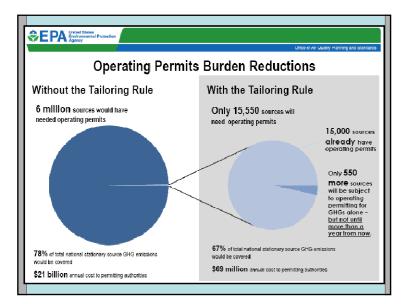
Greenhouse Gas Tailoring Rule PSD and Title V permitting requirements for GHGs Step 1 (January 1, 2011) All existing Title V holders to address GHGs Sources that require PSD for non-GHG emissions <u>and</u> increase GHG emissions ≥75,000 tons CO2e - PSD permit <u>and</u> GHG BACT review Step 2 (July 1, 2011) Sources with PTE ≥ 100,000 tons CO2e - new Title V permit. Sources with PTE ≥100,000 tons CO2e - PSD permitting <u>and</u> GHG BACT review

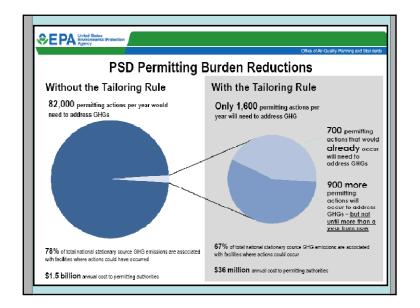
Greenhouse Gas Tailoring Rule

- Impact to POTWs
 - Minimal for existing Title V holders No existing GHG reduction regulations
 - PSD?
- Next Steps
 - Awaiting BAAQMD adoption and implementation schedule
- More Information:

http://www.epa.gov/nsr/index.html







EPA Definition of Solid Waste

- May affect incineration of Sewage Sludge
- <u>NACWA Comments</u>:
 - Exempt or exclude sewage sludge that is combusted in definition of non-hazardous waste
 - Recognize sewage sludge and scum as legitimate fuels
 - Explicitly classify energy recovery and production at POTWs as energy recovery systems
 - State the rule does not apply and will not impact sewage sludge management as regulated by Part 503
- · Regulation slated for approval January 2011

More Information:

http://69.175.53.20/federal register/2010/jun /04/2010-10837.pdf



EPA Proposed NSPS for Sewage Sludge Incinerators

- September 30, 2010 EPA proposed new source performance standards (NSPS) and emission guidelines (EG) for new & existing sewage sludge incineration (SSI) units
- Proposed rules establish opacity limits and emission limits for 9 pollutants

More Information:

http://www.epa.gov/ttn/oarpg/new.html



	Draft 129 Limits for Existing MHF	Draft 129 Limits for Existing FBI	Draft 129 Limits for new MHF	Draft 129 Limits for new FBI
Cd mg/dscm	0.09500	0.00190	0.00051	0.00051
Dioxin/Furans ng TEQ/dscm	0.3200	0.0560	0.0240	0.0240
Dioxin/Furans ng total/dscm	5.0000	0.6100	0.0022	0.0022
CO ppmdv	3900	56	7.4	7.4
HCI ppmdv	1.00	0.49	0.12	0.12
Hg mg/dscm	0.0200	0.0033	0.0010	0.0010
NOx ppmdv	210	63	26	26
Opacity %	10	0	0	0
Pb mg/dscm	0.30000	0.00980	0.00053	0.00053
PM mg/dscm	80.0	12.0	4.1	4.1
SO2 ppmdv	26.0	22.0	2.0	2.0



Mandatory GHG Report Verification

- Reporting Verification due October 1, 2010
- Two Month Grace Period due December 1, 2010
- How did Verification Process go?
- Common Issues/Tips for Next Year

More information:

http://www.arb.ca.gov/cc/reporting/ghg-ver/ghg-ver.htm

http://www.arb.ca.gov/cc/reporting/ghg-ver/ advisory Oct01 verification.pdf



CARB Cap & Trade:

Impact to POTWs

Capped Sectors: POTWs *generally* not included - fugitive and biomass combustion emissions from stationary sources excluded

- · Offsets:
 - Credits to be generated through ARB and "linked" programs
 - ARB to develop more protocols in 2011, including "wastewater sector"

Timeline / Next Steps

- Awaiting new regulation draft Fall 2010
- Adoption in 2010 and implementation in 2011
- CWCCG working with CARB on offset protocol development

More information

http://www.arb.ca.gov/cc/capandtrade/capandtrade.htm



CARB Cap & Trade: Wastewater Offsets

- · CWCCG continues communication with ARB
- · Potential protocols
 - Conversion of septic system to central sewer system
 - Conversion of digester gas flaring to cogeneration fuel/ digester installation
 - CO₂ sequestration from land application
 - Displacement of fossil fuel fertilizers
- Next Steps



CARB Renewable Electricity Standard (RES)

- Adopted September 2010
- Requires electricity sellers to meet 33% renewable energy resource targets
 - 20% 2012 to 2014
 - 24% 2015 to 2017
 - 28% 2018 to 2019
 - 33% 2020 and beyond
- Program allows bundled and unbundled (TRECs)
- · CWCCG followed regulation development
- More info at: http://www.arb.ca.gov/energy/res/res.htm



CEC/CPUC Renewable Portfolio Standard (RPS) – Tradable RECs

- RPS program established in 2002
- Requires IOUs to meet 20% renewable energy resource target by 2010
- Legislative movement to increase target to 33% by 2020
- CPUC issued a modified decision in August 2010 which allows the use of TRECs in the RPS system - up to 40%
- Modified decision limits the amount of RECs from distributed generation
- CWCCG following development
- To Commission for adoption October 28th
- More info at: <u>http://www.cpuc.ca.gov/PUC/</u> energy/Renewables/



CARB In-Use, Off-Road Diesel Fleet Regulation

- October 7, 2010- CARB met with the Associated General Contractors of America Trade Organization to agree upon proposed changes to the regulation.
- Changes set for acceptance December 2010 CARB Meeting
 - Comments to be accepted beginning: October 20, 2010

More information:

http://www.arb.ca.gov/msprog/ordiesel/ ordiesel.htm



CARB In-Use, Off-Road Diesel Fleet Regulation

Primary changes would include:

- 1. Delay performance requirements by 4 yrs (2 yr medium & small fleets)
- 2. Combine NOx and PM, lower annual requirements, and allow fleets to comply through turnover only
- 3. Provide easier compliance path for fleets under 500 hp
- 4. Increase low use threshold
- 5. Extend double credit for retrofits
- 6. Maintain turnover rate for a longer period, from 2017 to 2022

More information:

http://www.arb.ca.gov/msprog/ordiesel/ ordiesel.htm



Proposed ATCM Amendments for New Stationary, CI Engines

- To align more closely with NSPS for consistency new engines only
- NACWA Comments:
 - Supports compliance standards geared toward manufacturers
 - Supports attainable NOx emissions for emergency engines (>30 L/cyl)
 - Suggests maintenance plan and records for engines > 100
 HP similarly to the conditions for engines < 100 HP
 - Emissions standards may be difficult to meet for digesterfired engines
- Timeline:
 - Obtain CARB Board Approval pending, October 2010

More information:

http://www.arb.ca.gov/diesel/statport.htm

CARB Guidance for Siting Biorefineries

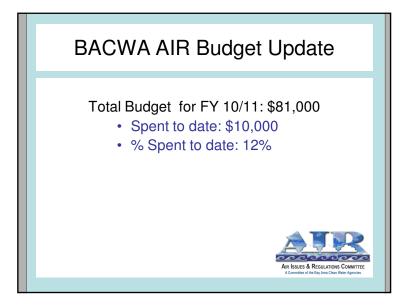
- October 11, 2010 CARB released draft Air Quality Guidance for Siting Biorefineries, Comments Due – December 1, 2010
- Response to the Low Carbon Fuel Standard
- A best practices guidance document for siting biofuel production facilities
- Biorefinery: A facility that converts biomass to fuels, heat, electricity, and chemicals.
 - specifically addresses biogas and anaerobic digestion as a biofuel and conversion technology

More Information:

http://www.arb.ca.gov/fuels/lcfs/101110_DRAFT Air Quality Guidance for Siting Biorefineries.pdf



Additional Items



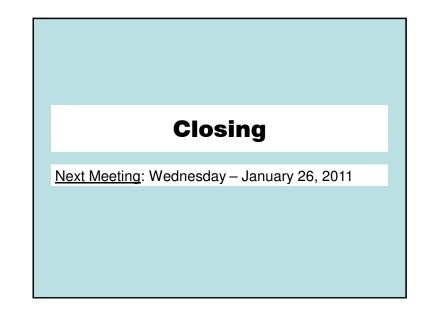
BACWA AIR Issues Matrix

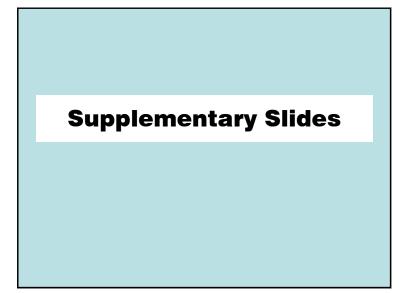
Key Issues:

- General Air Quality Regulations- Local, State, National
- Fleet Regulations
- Stationary Engine Emissions Regulations
- Portable Engine Emissions Regulations
- Misc. Equipment Emission Regulations Boilers, Turbines, etc.
- Solid Waste & Incineration Regulations
- Funding Opportunities
- Alternative Energy Regulations
- Environmental/Climate Change Regulations
- AB 32 Developments



January Meeting with BAAQMD <u>Next Meeting</u>: January 26th, 2011 <u>Speaker</u>: Brian Bateman, BAAQMD Director of Engineering Items to Discuss?





BAAQMD Regulation 9, Rule 8

Spark-Ignited Engine Standards (Effective January 1, 2008)

Powered by Fossil Derived Fuels				
Rich Burn	≤ 0.35 g NOx / bhp			
Lean Burn	≤ 1.00 g NOx / bhp			
Powered by Waste	e Derived Fuels			
Rich Burn	≤ 0.70 g NOx / bhp			
Lean Burn	≤ 1.00 g NOx / bhp			