



AIR ISSUES & REGULATIONS COMMITTEE

A Committee of the Bay Area Clean Water Agencies

Committee Meeting

March 9, 2016

10:00 am – 1:00 pm

Introductions & Opening

Agenda

- Introductions and Opening
- AIR Business Items
- Regulatory Updates
 - I. Local Regulatory News
 - II. State Regulatory News
 - III. Southern California Regulatory News
- Technical Resources
- Grant Opportunities
- CASA Energy Workgroup Updates
- CWCCG Updates
- Closing



AIR Business Items

AIR Business Items

- Total budget for FY 2015-16: \$52,000
 - Spent through Friday, March 4th:
 - Approximately \$31,700
 - 61% of budget
- AIR Committee for FY 2016-17:
 - Status of integration of the AIR Committee into BACWA
 - Should the process of integration continue?
- Plan for remaining meetings:
 - Annual meeting with BAAQMD (Spring 2016)
 - Send suggested meeting topics to Elyse Engel by April 1st
- Other?



Local Regulatory News

Local Regulatory News

BAAQMD's 2016 Clean Air Plan and Regional Climate Protection Strategy

BAAQMD's 2016 Clean Air Plan and Regional Climate Protection Strategy

- BAAQMD held 6 different open houses across the Bay Area to discuss updates to the 2010 Clean Air Plan
- The updates will include the Bay Area's first ever Climate Protection Strategy, which will identify:
 - Potential rules
 - Control measures
 - Strategies that BAAQMD can pursue to reduce GHGs in the Bay Area
- Next Steps:
 - Release public draft for review June/July 2016
 - BAAQMD adoption October/November 2016
- Additional information is available at: <http://www.baaqmd.gov/plans-and-climate/air-quality-plans/plans-under-development>



BAAQMD's 2016 Clean Air Plan and Regional Climate Protection Strategy (Continued)

- BAAQMD has released a list of draft control measures and potential implementation actions, including:
 - Reduce threshold at which facilities must implement GHG BACT
 - Revise BAAQMD Air Toxics Hotspots program
 - Reduce NOx and VOC emissions from gas turbines
 - Establish sulfur content limits for liquid fuels
 - Develop rule to reduce NOx from non-refinery flares
 - Strengthen odor standards
 - Support development of bioenergy
 - Better understand and quantify GHG emissions at POTWs
 - Obtain funding for development of green infrastructure at POTWs
 - Develop rule to regulate GHG emissions from POTWs



Local Regulatory News

Revisions to BAAQMD Regulation 2, Rule 5

Revisions to BAAQMD Regulation 2, Rule 5

- BAAQMD Regulation 2, Rule 5 – New Source Review (NSR) of Toxic Air Contaminants (TAC):
 - This rule provides for the review of new and modified sources of TAC emissions to evaluate potential health risk
 - Revisions are proposed to ensure that BAAQMD's Air Toxics NSR Program conforms to the most recent state-wide guidance
- Revisions include:
 - Implementing the state's revised Health Risk Assessment (HRA) and Risk Management Guidelines for Stationary Sources
 - Incorporating new and revised TAC emission rate trigger levels for HRA requirements
 - Simplifying TAC emission calculation procedures for modified sources
- Comments are due March 9th
- Additional information is available at: <http://www.baaqmd.gov/rules-and-compliance/rule-development/regulatory-workshops>



Revisions to BAAQMD Regulation 2, Rule 5 (Continued)

- Revisions to HRA Guidelines:
 - Health risk assessment procedures will be revised to address:
 - Age Sensitivity Factors
 - Age-specific Exposure Variables
 - Fraction of Time at Home
 - Exposure Duration
 - Spatial Averaging of Exposure Concentrations
 - Revisions may increase inhalation cancer risks 40%
- Revisions to Trigger Levels:
 - Noncancer TACs: Trigger levels should not change
 - Cancer TACs: Trigger levels decrease by about 30%
 - TACs with Significant Cancer Impacts from a Non-Inhalation Pathway: Trigger levels decrease by about 90%
- Revisions to Rule:
 - T-BACT Significance Levels (Single Source):
 - 1 in 1 million for cancer risk
 - 0.2 for noncancer chronic hazard index
 - Project Significance Levels:
 - 10 in 1 million for cancer risk
 - 1.0 for noncancer chronic and acute hazard index



State Regulatory News

State Regulatory News

Revisions to the ATCM and PERP Regulations

Revisions to the ATCM and PERP Regulations

- Workshop is scheduled for March 10th
 - Will discuss potential revisions to the following regulations:
 - Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (ATCM)
 - Statewide Portable Equipment Registration Program (PERP) Regulation
 - Will propose revisions to the fleet average emission standards for diesel particulates from portable diesel-fueled engines
- In December 2015, CARB issued an advisory indicating that air districts should not enforce the 2017 ATCM fleet average emission standards until revisions are adopted and effective
- Additional information is available at:
http://www.arb.ca.gov/portable/perp/workshop_march2016.pdf



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State Regulatory News

Revisions to the Mandatory Reporting of GHG Emissions and Cap-and-Trade Regulations

Revisions to the Mandatory Reporting of GHG Emissions and Cap-and-Trade Regulations

- Revisions proposed to support alignment of the California regulations with the USEPA Clean Power Plan
- Revisions include:
 - Support 3rd compliance period and post-2020 Program
 - Clarify product data definitions and cessation provisions
 - Clarify requirements for temporary/alternative methods and GHG monitoring plans
 - Require indication of whether purchased natural gas is pipeline quality
 - Change verification deadline from September 1 to August 1
 - Compliance periods will be 2 years post-2020
 - Additional requirements specific to electricity generating units, as related to Clean Power Plan provisions
- Adoption expected by October 2017
- Comments are due March 11th
- Additional information is available at:

<http://www.arb.ca.gov/cc/capandtrade/meetings/meetings.htm>



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State Regulatory News

Revisions to the Carl Moyer Program Guidelines

Approved Revisions to the Carl Moyer Program Guidelines

- Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) Guidelines:
 - Revisions effective January 1, 2016
 - Updates include:
 - Streamlining the administrative process
 - Providing allowances for leverage funding
 - Updating the cost-effectiveness factors to account for inflation consistent with the provisions of Senate Bill (SB) 513
 - Approved guidelines are available at:
http://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmpgl_20151218.pdf
- Carl Moyer 2016 On-Road Voucher Incentive Program (VIP) Guidelines
 - Revisions effective January 1, 2016
 - Updates include revised funding tables
 - Approved guidelines are available at:
http://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2016_onroad_VIP_GL_1_2112015.pdf



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Future Revisions to the Carl Moyer Program Guidelines

- Workshop scheduled for March 10th
 - Seeks input on potential updates to the Carl Moyer Program Guidelines
 - Changes intended to reflect new opportunities provided by SB 513
- Updates will focus on the following areas:
 - Infrastructure Projects
 - Cost-Effectiveness Limits
 - Leveraging Opportunities
 - Improved Implementation of Existing Projects
 - Program Administration
- Proposed adoption anticipated in early 2017
- Additional information is available at:

<http://www.arb.ca.gov/msprog/mailouts/msc1601/msc1601.pdf>



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State Regulatory News

CARB Carbon Capture and Sequestration Program

CARB Carbon Capture and Sequestration (CCS) Program

- CARB is launching a CCS program to understand the following:
 - Ability of CCS to contribute to climate goals
 - Limitations or advantages of the technology
 - Innovation and incentives necessary for implementation
- To support the CCS program, CARB is developing a CCS Quantification Methodology
- Timeline for program development:
 - Concept Paper/Public Workshops – Fall 2016
 - Draft Proposal, Public Workshops – Winter/Spring 2017
 - Begin Implementation – Winter/Spring 2018
- Additional information is available at:
<http://www.arb.ca.gov/cc/ccs/ccs.htm>



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State Regulatory News

Final 2015 Integrated Energy Policy Report

Final 2015 Integrated Energy Policy Report

- Final 2015 Integrated Energy Policy Report:
 - Assesses major energy trends and issues in the electricity, natural gas, and transportation fuel sectors
 - Provides policy recommendations to:
 - Conserve resources
 - Protect the environment
 - Ensure reliable, secure, and diverse energy supplies
 - Enhance the state's economy
 - Protect public health and safety
- Adopted on February 10, 2016
- Additional information is available at:
http://www.energy.ca.gov/2015_energy_policy/



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Southern California Regulatory News

**Southern California Regulatory
News**

SCAQMD Rule 1110.2

SCAQMD Rule 1110.2

- Revisions adopted by the South Coast Air Quality Management District (SCAQMD) on December 4, 2015
- Under this revised rule:
 - All biogas engines will have until January 1, 2017 to complete retrofits
 - Several facilities have until January 1, 2018, as called out by name
 - Existing biogas engines should not be impacted by these provisions
- Concentration limits for biogas engines are as follows:

Concentration Limits Effective January 1, 2017

| NOX (ppmvd) | VOC (ppmvd) | CO (ppmvd) |
|-------------|-------------|------------|
| 11 | 30 | 250 |

- Adopted regulatory language is available at:
<http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/rule-1110-2.pdf?sfvrsn=4>



Additional Items

Additional Items

Technical Resources

BAAQMD's Consumption- and Production-Based GHG Inventories

- Consumption-based inventory:
 - Estimates the amount of GHGs emitted worldwide in the production of goods and services consumed in the Bay Area
 - Considers 5 basic areas: transportation, housing, food, goods, and services
- Production-based inventory:
 - Estimates the amount of GHGs produced within the Bay Area
 - Focuses on industrial, commercial, transportation, residential, forestry, and agricultural activities
- Inventories will be used to inform the development of the BAAQMD's Regional Climate Protection Strategy
- Additional information is available at:
<http://www.baaqmd.gov/research-and-data/emission-inventory/consumption-based-ghg-emissions-inventory>



FY 2016-17 Funding Plan for Low Carbon Transportation and Fuels Investments and Air Quality Improvement Program

- Workshop scheduled for April 4th
 - Seek input on draft funding allocations and project criteria
 - Specifically focus on the following ongoing projects:
 - Clean Vehicle Rebate Project (CVRP) and light-duty pilot projects
 - Clean truck, bus, and off-road vehicle and equipment projects
 - Low carbon fuels production incentives
- Proposed FY 2016-17 budget includes:
 - \$500 million for Low Carbon Transportation and Fuels
 - \$28.6 million for Air Quality Improvement Program
- Adoption schedule:
 - Release the proposed FY 2016-17 Funding Plan on May 20th
 - Considered for adoption on June 23rd
- Additional information is available at:

<http://www.arb.ca.gov/msprog/mailouts/msc1602/msc1602.pdf>



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Alternative Diesel Fuels Regulation Compliance Assistance

- Regulation on the Commercialization of Alternative Diesel Fuels (Alternative Diesel Fuels Regulation):
 - Effective January 1, 2016
 - Requires biodiesel producers, importers, and blenders to report and keep records regarding production, sales, and blending
 - The first quarter reports are due June 30, 2016
- FAQs were released to help regulated entities comply, and include answers to the following:
 - Does the regulation apply to me?
 - Does the regulation apply to both on and off-road vehicles?
 - Is renewable diesel subject to the regulation?
 - When are quarterly reports due?
- FAQs are available at: <http://www.arb.ca.gov/fuels/adf/20151222adffaq.pdf>
- A form to facilitate quarterly reporting has also been posted at: <http://www.arb.ca.gov/fuels/adf/adf.htm>



Hotspots Analysis and Reporting Program Version 2 (HARP 2)

- Released new versions of the HARP 2 modules:
 - Emission Inventory Module:
 - Used to create and manage facility emission inventory databases and calculate facility prioritization scores
 - Air Dispersion Modeling and Risk Tool:
 - Used to perform dispersion modeling via AERMOD and calculate health impacts from AERMOD results
 - Risk Assessment Standalone Tool:
 - Used to calculate health impacts using imported ground-level concentrations, population exposures, and cumulative impacts for one or more facilities
- Key changes include:
 - Updated CEIDARS databases
 - Updated health databases
 - Updated user databases
- Additional information is available at:
<http://www.arb.ca.gov/toxics/harp/harp.htm>



California Waste & Energy Reports

- “Comparative GHG Emissions Analysis of Alternative Scenarios for Waste Treatment and/or Disposal”:
 - Shows that an integrated Materials Recovery Facility (MRF) with conversion technologies will achieve a net reduction in cumulative GHG emissions compared to landfilling post-recycling residuals from a mixed-waste MRF
 - Available for download at:
[http://dpw.lacounty.gov/epd/nas/epd/epd_dms/C T `JAJONES`Programs`PU B Y`FREQ N`1_1_2016``REC N`0000_00`0000_00`CT GEN`County Conversion Technology White Paper - Briefing Report`83.pdf](http://dpw.lacounty.gov/epd/nas/epd/epd_dms/C_T_`JAJONES`Programs`PU B_Y`FREQ_N`1_1_2016``REC_N`0000_00`0000_00`CT_GEN`County Conversion Technology White Paper - Briefing Report`83.pdf)
- “California Energy Demand 2016-2026, Revised Electricity Forecast”:
 - Presents forecasts of electricity and end-user natural gas consumption, peak electricity demand for California, and scenarios for additional achievable energy efficiency
 - Available for download at:
http://www.energy.ca.gov/2015_energy policy/documents/



USEPA ENERGY STAR® Webinars

- March 17th: How to Apply for the ENERGY STAR
 - Reviews application process for Portfolio Manager Certification
- March 22nd: Portfolio Manager 101
 - Introduces the core functionality of the ENERGY STAR Portfolio Manager tool
- March 23rd: Portfolio Manager 201
 - Dives deeper into more advanced tool functions
- March 24th: Portfolio Manager 301
 - Provides more advanced knowledge of tool functions and features
- Registration information is available at:
<http://www.energystar.gov/buildings/training>



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USEPA Water & Climate Resources

- “State and Local Guide to USEPA Climate and Energy Program Resources”:
 - Describes USEPA programs and resources that can help governments develop or expand energy efficiency and renewable energy initiatives or meet regulatory requirements
 - Available for download at:
http://www3.epa.gov/statelocalclimate/documents/pdf/slb_guide_to_program_resources.pdf
- "Biogas Opportunities Roadmap Progress Report“:
 - Highlights activities and accomplishments undertaken since 2014, including an expanded definition of “biomass” to promote the integration of biogas activities into strategic planning
 - Available for download at:
http://energy.gov/sites/prod/files/2015/12/f27/biogas_opportunities_roadmap_progress_report_0.pdf



General Reporting Protocol (GRP) Version 2.1

- The Climate Registry's GRP:
 - Version 2.1 released in January 2016
 - Outlines GHG accounting policies and required reporting calculation methodologies for the majority of GHG sources
- Updates include:
 - Incorporation of previously adopted minor updates and clarifications
 - New requirements for members to report two Scope 2 totals according to location- and market-based methods
- Voluntary reporting deadline is June 30th
- Additional information is available at:
<http://www.theclimateregistry.org/tools-resources/reporting-protocols/general-reporting-protocol/>



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Additional Items

Grant Opportunities

Greenhouse Gas Reduction Loan Program

- CalRecycle's Greenhouse Gas Reduction Loan Program:
 - Intended to fund projects reducing the amount of green materials, food materials, and/or alternative daily cover being sent to landfills
- FY 2014-15:
 - Applications are still being accepted
 - \$2.9 million available
- FY 2015-16:
 - Approximately \$5 million will be available late this year
- FY 2016-17:
 - \$100 million in funding expected
 - Dependent on approval of the Governor's budget

- Additional information is available at:

<http://www.calrecycle.ca.gov/Climate/GrantsLoans/GHGLoans/default.htm>



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Clean Vehicle Rebate Project (CVRP)

- CVRP:
 - Accelerates the number of ultra-clean vehicles sold in California
 - Helps establish a sustainable market
- Offers rebate funding for zero-emission and plug-in hybrid electric vehicles:
 - 76% of FY 2015-16 funding still available
 - Applications accepted on a first-come, first-serve basis
- Rebates offered for purchase or lease:
 - \$5,000 per hydrogen fuel cell vehicle
 - \$2,500 per battery electric vehicle
 - \$1,500 per plug-in hybrid electric vehicle
- Additional information is available at:
<https://cleanvehiclerebate.org/eng/about-cvrp>



Additional Items

**CASA Energy Workgroup &
CWCCG Updates**

CASA Energy Workgroup Updates

- Assembly Bill (AB) 1826:
 - Requires diversion of organic wastes from landfills if generating above given thresholds
 - Effective dates and thresholds are as follows:
 - April 1, 2016: Generate at least 8 cubic yards per week
 - January 1, 2017: Generate at least 4 cubic yards per week
 - POTWs are likely to be contacted by recycling coordinators regarding their potential to accept organic waste for co-digestion
 - Additional information is available at:
<http://www.calrecycle.ca.gov/recycle/commercial/organics/>
- Other?



CWCCG Updates

- California Natural Resources Agency's *Safeguarding California: Implementation Action Plans*:
 - Released March 8, 2016
 - Concisely presents:
 - Risks posed by climate change
 - Adaptation efforts underway
 - Actions that will be taken to safeguard residents, property, communities, and natural systems
 - Additional information is available at:
<http://resources.ca.gov/climate/safeguarding/>
- N₂O Emissions from POTWs:
 - CARB is developing N₂O emissions estimates for POTWs
 - CWCCG is meeting with CARB to discuss approach and how to collect data from POTWs
- Other?



Closing

Next Meeting: Spring 2016, BAAQMD Headquarters