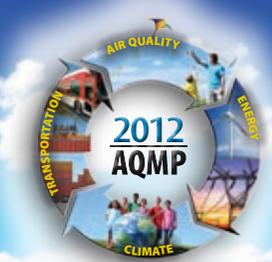


## 2012 Air Quality Management Plan Adopted



**T**he South Coast Air Quality Management District's (SCAQMD) Governing Board, on December 7, adopted a detailed blueprint to achieve the existing federal health standards for fine particulate (PM2.5) air pollution in the Southland by 2015.

The plan also includes a comprehensive analysis of strategies and challenges involved in meeting future air quality goals.

"We are now close to meeting the federal health standard for particulate pollution thanks to the steady progress we have made in reducing emissions," said William A. Burke, Ed.D., SCAQMD Governing Board Chairman. "Due to the success of our air pollution control programs, we can meet this standard on time by strengthening just two of our existing rules."

The 2012 Air Quality Management Plan (AQMP) provides a scientific demonstration of how specific control measures will enable the region to meet the federal health-based standard for PM2.5 by 2015. It also includes an update on progress towards reducing ground-level ozone to help meet the ozone standard by 2024. The plan's two key measures aimed at reducing PM2.5 emissions would strengthen SCAQMD's residential wood burning and open burning curtailment programs.

Ammonia emission reductions

from livestock operations and PM2.5 emission reductions from under-fired charbroilers in restaurants are included in the plan as potential control measures for further evaluation. A contingency measure to further reduce nitrogen oxide (NOx) reductions from large sources in AQMD's RECLAIM program could be invoked if the region does not meet the PM2.5 standard by 2015.

While the overall plan is now approved, specific control measures will not take effect until each measure is developed and adopted through an intensive public process.

As part of the 2012 AQMP, the SCAQMD, the California Air Resources Board (CARB), and San Joaquin Valley Air Pollution Control District developed a framework for coordinated strategies to meet California's multiple air quality and climate goals. The resulting document *Vision for Clean Air: A Framework for Air Quality and Climate Planning* is available on the SCAQMD website, [www.aqmd.gov](http://www.aqmd.gov).

The 2012 clean air plan will now be forwarded to the CARB for review. If approved by the state, it will be sent to U.S. Environmental Protection Agency for final approval.

*For more information, contact Philip Fine at (909) 396-2239 or [pfine@aqmd.gov](mailto:pfine@aqmd.gov)*

## In March Thousands of Southland Students to Converge for Environmental Conference

**H**igh School students and teachers from all over the Southland will be attending the SCAQMD's, "A World We Can Change" conference on March 13. Approximately 8,000 participants will fill the Long Beach Convention Center for the day-long event.

The goal of the conference is to educate, inspire and engage the region's youth on air quality and environmental issues. SCAQMD is partnering with major environmental education organizations, such as the Alliance for Climate Education (ACE) and Global Inheritance. ACE will present their award-winning assembly to educate conference-goers on climate science and show each individual what he or she can do to make a positive difference on the environment.

The Expo Hall will feature hands-on and interactive exhibits, state-of-the-art technology displays, and information on educational, volunteer, and career opportunities. One exhibit will enable students to learn firsthand about energy and sustainability issues as they pedal stationary bicycles to power a live DJ booth.

This free conference will provide students and teachers opportunities to learn about and become engaged in helping create a clean air future for their communities and the world.

Schools may be eligible for transportation and substitute teacher related expenses. For more information on SCAQMD's "A World We Can Change" High School Regional Conference, visit [www.AWorldWeCanChange.com](http://www.AWorldWeCanChange.com).

*For more information, contact Lisa Tanaka O'Malley at (909) 396-3327 or [lomalley@aqmd.gov](mailto:lomalley@aqmd.gov)*



Cleaning the air  
that we breathe...



Volume 20  
Number 1  
January 2013

## SCAQMD Helps School Districts from the Mountains to the Sea

**T**he SCAQMD recently awarded \$32.9 million to help local school districts across the Southland purchase new clean-burning compressed natural gas and (CNG) propane-powered buses to replace older diesel buses in their fleets. An additional \$1.3 million was also awarded to help retrofit diesel school buses with particulate matter (PM) traps to reduce diesel emissions.

This funding will enable more than 30 public school districts and private school bus carriers to replace 193 pre-1994 diesel buses, retrofit 66 existing buses, and install necessary fueling infrastructure to support their fleets. School districts purchasing new CNG buses include Torrance Unified School District (USD), Bear Valley USD, Orange County's Newport-Mesa USD, and the Murrieta Valley USD.

SCAQMD has long allocated funding to help Southland school districts replace or retrofit old school bus models to reduce cancer causing pollution to protect children's health. For a complete list of districts and private transportation agencies participating in this program go to [www.aqmd.gov](http://www.aqmd.gov) and click on AQMD Newsroom.

*For more information contact Ranji George at (909) 396-3255 or [rgeorge@aqmd.gov](mailto:rgeorge@aqmd.gov)*



# Remember to Check Before Burning Wood



To protect public health, wood burning in residential fireplaces will be halted this winter when unhealthy air quality is forecast. Under its "Check Before You Burn" program, SCAQMD is issuing mandatory no-burn alerts through the end of February for specific areas where fine particulates are forecast to reach unhealthy levels.

When wood is burned it releases fine particles into the air we breathe. These fine particles can cause breathing problems, aggravate asthma and other lung diseases, and even cause cancer and premature death especially affecting our most sensitive populations: seniors, children, and individuals with pre-existing heart and lung conditions.

This program applies to all of Orange County and to the non-desert portions of Los Angeles, Riverside and San Bernardino counties. Mountain communities above 3,000 feet in elevation are exempt, as are

## CHECK BEFORE YOU BURN

homes that rely on wood as the sole source of heat, low-income households and those without natural gas service.

Residents can sign up at [www.AirAlerts.org](http://www.AirAlerts.org) to receive e-mails highlighting when a no-burn alert is being issued for their neighborhood. To see if a no-burn alert has been issued, and in which area, check the alert map at [www.aqmd.gov/noburn](http://www.aqmd.gov/noburn), enter a ZIP code at [www.aqmd.gov](http://www.aqmd.gov), or call SCAQMD's

24-hour Check Before You Burn toll-free hotline at (866) 966-3293.

To learn more about SCAQMD's efforts to reduce wood smoke emissions and financial incentives SCAQMD offers to upgrade your fireplace with a natural gas log set, visit [www.HealthyHearths.org](http://www.HealthyHearths.org).

For more information, contact Philip Fine at (909) 396-2239 or [pfine@AQMD.gov](mailto:pfine@AQMD.gov)

## Two SCAQMD Inspectors Honored for their Efforts

Two SCAQMD inspectors have been honored for their outstanding enforcement efforts. The state's air districts have recognized the exceptional accomplishments of an SCAQMD inspector for the third year in a row, while another inspector has been honored for his efforts working with law enforcement.

Ahmad Soltani received the 2012 Rodney Swartzendruber Outstanding Inspector Award from the California Air Pollution Control Officers Association (CAPCOA) for his consistent display of outstanding performance through his dedicated service to the public. Ahmad has worked for SCAQMD since 1984. He has extensive knowledge of air quality rules and regulations and experience in conducting complex inspections and comprehensive audits of large industrial and commercial facilities and small businesses. Ahmad's efforts to ensure compliance with air quality laws within the regulated community and commitment to protect public health have influenced the adoption and implementation of two new rules in 2009 (Rules 1143 and 1144), which have resulted in emission reductions, and have set standards followed by other state and federal agencies.

SCAQMD Inspector Larry Israel was honored at the 12th Annual Law Enforcement Awards Ceremony hosted by U.S. Attorney Andre Birotte Jr. of the Central District of California. Larry was recognized for his extraordinary efforts during the investigation of an illegal asbestos abatement operation violating the Clean Air Act. Larry has been with SCAQMD since 1987. During his tenure he has been engaged in complicated projects from public nuisance issues to cases involving criminal convictions. In 2010 Larry was the first SCAQMD inspector to receive CAPCOA's Rodney Swartzendruber Outstanding Inspector Award.

The accomplishments of the SCAQMD inspectors and their display of exemplary enforcement skills have been instrumental in the agency's successful clean air efforts.

For more information, contact Mohan Balagopalan at (909) 396-2704 or [mbalagopalan@aqmd.gov](mailto:mbalagopalan@aqmd.gov)



## Lawn Mower Exchange Returning in Spring



Plans are under way for the 11th annual "Mow Down Air Pollution" Lawn Mower Exchange Program. The event dates and locations will be available in spring 2013. The program allows residents living within SCAQMD's four-county jurisdiction to turn in their old working gas powered lawn mowers and purchase a new cordless rechargeable electric mower at a greatly reduced price. Four thousand lawn mowers will be available for the 2013 exchange, ranging in price from \$100 to \$250. There will be six models to choose from.

SCAQMD has conducted lawn mower exchange programs for the past ten years. To date, 47,059 gasoline-powered lawn mowers have been traded in for zero-emission electric mowers.

To check for lawn mower exchange events in 2013, visit SCAQMD's web site at [www.aqmd.gov](http://www.aqmd.gov). Residents can also sign up at [www.aqmd.gov/lists/server/default.aspx](http://www.aqmd.gov/lists/server/default.aspx) to receive emails on future exchange events via email.

For more information, contact Shashi Singeetham at (909) 396-3298 or [ssingeetham@aqmd.gov](mailto:ssingeetham@aqmd.gov)

## Demonstration Project Approved to Highlight Commercial Use of Cordless Zero-Emission Lawn and Garden Equipment



**O**ver the past decade SCAQMD has replaced thousands of residential gasoline-powered lawn mowers with zero-emission cordless electric lawn mowers in the South Coast Basin. However, while electric lawn mowers work well in residential gardening and landscaping operations, the motor and battery pack need to be enhanced in order to perform reliably in commercial applications.

To address this issue, SCAQMD with support from Mean Green Products and the California Air Resources Board, recently initiated a demonstration project to test cordless zero-emission electric lawn & garden equipment for commercial gardening and landscaping operations.

The demonstration project will operate 60” deck riding mowers (CXR-60) and two 33” walk-behind mowers (WBX-33) equipped with lithium-ion batteries and aluminum grass catchers, in normal commercial gardening and landscaping service for a period of three months. Mean Green Products will work with the University of California Riverside Bourns College of Engineering’s Center for Environmental Research & Technology to monitor the lawn mowers for performance, run time, wear, loose elements, structural integrity, and other maintenance issues.

The project is projected to achieve approximately 3.6 tons of NOx emission reductions per year and help market penetration of commercial cordless zero-emission electric lawn mowers, hedge and line trimmers.

*For more information, contact Shashi Singeetham at (909) 396-3298*

## Ask the SCAQMD Advisor

**Q:** How can I report an air quality problem or make a complaint?

**A:** You can help SCAQMD protect public health in the South Coast Air Basin by calling 1-800-CUT-SMOG® (1-800-288-7664) to report smoking vehicles as well as excessive odors, smoke, dust, or other air contaminants. You can also submit air quality complaints (except smoking vehicles) on-line via SCAQMD’s website at [www.aqmd.gov](http://www.aqmd.gov).

**Q:** What is an air quality complaint?

**A:** An air quality complaint is any injury, detriment, nuisance, or annoyance occurring as a result of air contaminants or other materials, including (but not limited to) smoke, dust, or odors.

**Q:** Why you should report air quality problems?

**A:** Many businesses operating in the South Coast Air Basin that emit air pollution must comply with SCAQMD rules, regulations, permits and conditions of operation. These are designed to protect air quality and public health. However, despite a business’s best efforts to comply with these requirements, equipment breakdowns and procedure upsets do occur. During these situations, excess emissions may occur that can affect neighboring communities, schools and other businesses.

**Q:** Do I have to identify myself when I call SCAQMD to report an air quality complaint?

**A:** No. However, SCAQMD encourages people to provide their contact information when reporting air quality complaints since this information helps us verify the details of the complaint, if needed, and to keep you informed about the status of the complaint investigation. All information is kept confidential to the extent allowed by law.

## Gantry Cranes at Port to Go Electric

**I**n December, the SCAQMD’s Governing Board approved a contract with Seaside Transportation Services to electrify three rubber-tired gantry cranes at Terminal Island.

The gantry cranes are used for handling and stacking intermodal shipping containers at port terminal storage facilities. The project involves the retrofit of existing cranes to receive electric power through a cable reel carrier (CRC) system that is mechanically linked to the crane. The CRC system will run alongside the crane and deliver electrical power to the unit during operations.

The nearly \$1.9 million project will reduce the amount of diesel fuel consumed by the cranes and result in significant emission reductions for the region. It is projected that retrofitting the three cranes will reduce 7.3 tons of nitrogen oxides and 0.03 tons of particulate matter each year.

*For more information, contact Vickie White at (909) 396-3436 or [vwhite@aqmd.gov](mailto:vwhite@aqmd.gov)*



# 2013 Compliance Deadlines

*Below is a summary of SCAQMD rule compliance deadlines that take effect for the first time during the calendar year 2013, as well as rule requirements that must be complied with on January 1, 2014. Please note that as new rules are adopted and current rules are amended or rescinded, compliance deadlines may change. This summary is provided as a courtesy only. Please call 1-800-CUT-SMOG or check SCAQMD's Rule Book on the web at [www.aqmd.gov/rules/rulesreg.html](http://www.aqmd.gov/rules/rulesreg.html) to obtain the most current rule information.*

## Gasoline Transfer and Dispensing (Rule 461)

- By April 1, 2013 existing aboveground storage tanks not listed in Exhibit 1 of California Air Resources Board (CARB) Executive Order VR-301-D must be coated with one of the coating systems listed in this executive order. Two CARB Certified coating systems are SCAQMD Rule 1113 compliant: (1) Ponderosa Paint Company and (2) Jones-Blair Paint Company. Follow manufacturers' instructions and mix ratios. In addition, all gasoline AST must be equipped with a Husky 5885 Pressure Vacuum Vent Valve(s). *Reference: Rule 461 (c)(1)(B) & (c)(3)(I)(iii) and CARB Executive Order VR-301-D and CARB Vapor Recovery Advisory 393.*

**Contact: Vapor Recovery Hotline (909) 396-3546**

## Emissions from Gaseous – and Liquid – Fueled Internal Combustion Engines (Rule 1110.2)

- Effective January 1, 2014, the following are subject to the requirements of subparagraph (d)(1)(K), including the emission limits in Table IV:
  - New non-emergency electrical generators installed by an electric utility on Santa Catalina Island.
  - New non-emergency electrical generators installed at remote locations without access to natural gas and electric power.
  - Engines used to supply electrical power to ocean-going vessels while at berth.

*Reference: Rule 1110.2 (d)(1)(K)(v).*

- Agricultural stationary engines are exempt from the provisions of subdivision (d) provided the operator has complied/complies with Paragraph (i)(9)(A-C) and meet the following compliance deadlines for the installation of new Tier 4 stationary agricultural engines:
  - By March 1, 2013, submit applications for permits to construct engine modifications, control equipment, or replacement engines.
  - By September 30, 2013, or 30 days after the permit to construct is issued, whichever is later, initiate construction of engine modifications, control equipment, or replacement engines.
  - By January 1, 2014, or 60 days after the permit to construct is issued, whichever is later, complete construction and comply with applicable requirements.

*Reference: Rule 1110.2 (i)(9).*

**Contact: Combustion Hotline (909) 396-3419**

## Architectural Coatings (Rule 1113)

- Until July 1, 2013, to be considered a sanding sealer, a coating must be clearly labeled as such. After July 1, 2013 a coating will be considered a sanding sealer if the product is described in a manner that meets definition (b)(56), even if the manufacturer does not use the phrase 'sanding sealer' on the label. This change will result in some products being re-categorized from the Primer, Sealer, Undercoater (PSU) category to the Clear Wood Finish (CWF) category. This is important as CWFs cannot take advantage of the small container exemption (coatings sold above the VOC limits in one-liter or smaller containers). Manufacturers should evaluate their product labels to ensure they are not marketing products that meet the amended definition of a sanding sealer under the small container exemption.

*Reference: Rule 1113 (b)(56).*

- Effective January 1, 2014, there are new VOC limits for the following coatings: Concrete Surface Retarder, Dry-Fog Coatings, Clear Topcoats for Faux Finishing Coatings, Trowel Applied Faux Finishing Coatings, Fire-Proofing Coatings, Form Release Compound, Graphic Arts (Sign) Coatings, Mastic Coatings, and Metallic Pigmented Coatings. (c)(1)(A)

- Effective January 1, 2014, the VOC limit for the default category (e.g., any architectural coating that does not fall into one of the categories listed in the Table of Standards 1) will be reduced from 250 g/L to 50 g/L. *Reference: Rule 1113 (c)(1)(B)*
- Effective January 1, 2014, VOC limits (less water and less exempt compounds) are in effect for colorants added at the point of sale as follows: Architectural Coating Colorant, excluding Industrial Maintenance Coatings is 50 g/L, Solvent-Based Industrial Maintenance is 600 g/L, and Waterborne Industrial Maintenance is 50 g/L. *Reference: Rule 1113 (c)(2)*
- Effective January 1, 2013, the sell through period for coatings that contain in excess of 0.1% by weight of any Group II exempt compounds listed in Rule 102 expires. Cyclic, branched, or linear, completely methylated siloxanes (VMS) are not subject to this prohibition. *Reference: Rule 1113 (c)(8)*
- Effective January 1, 2014, specific VOC labeling requirements on containers subject to this rule shall be displayed on the coating container such that the required language is:
  - Noticeable and in clear and legible English;
  - Separated from other text; and
  - Conspicuous, as compared with other words, statements, designs, or devices in the label as to render it likely to be read and understood by an ordinary individual under customary conditions of purchase or use.*Reference: Rule 1113 (d)(3)(A-C)*
- Until December 31, 2013, the provisions of this rule shall not apply to any architectural coatings in containers having capacities of one liter (1.057 quart) or less, provided the provisions in the subparagraphs (f)(1)(A – C) are met. This exemption does not apply to clear wood finishes, varnishes, sanding sealers, lacquers, and pigmented lacquers. Effective January 1, 2014, however, except for the provisions of the Table of Standards and paragraph (c)(1) of this rule, all other rule requirements including the labeling requirements listed above shall apply to any architectural coatings in containers having capacities of one liter (1.057 quart) or less provided the provisions in subparagraphs (f)(1)(A – C) are met. *Reference: Rule 1113 (f)(1)*

**Contact: David De Boer (909) 396-2329**

**Metalworking Fluids and Direct-Contact Lubricants (Rule 1144)**

Metalworking fluid or direct-contact lubricant manufacturers or suppliers shall submit to SCAQMD by April 1, 2013, an annual quantity and emissions report for products subject to the rule sold within SCAQMD in 2012. The report format shall be approved by the Executive Officer, and shall include the annual sales volume and VOC content of metalworking fluids and direct-contact lubricants sold or distributed within SCAQMD.

- Calendar Year 2013 is the final calendar year for which a metalworking fluid or direct-contact lubricant manufacturer or supplier shall submit to the District by April 1, 2014, an annual quantity and emissions report for products subject to the rule sold within the District.

Reference: Rule 1144 (f)(3)

Contact: Mike Morris (909) 396-3282

**Emissions of Oxides of Nitrogen from Industrial, Institutional and Commercial Boilers, Steam Generators, and Process Heaters (Rule 1146)**

- On or before January 1, 2013, the owner or operator shall subject all of the specific categories of units within the facility to the NOX emission limits and schedules per Table 1146-1:

**Table 1146-1 – Standard Compliance Limits and Schedule**

Rule Reference	Category	NOx Limit	Requirement
(c)(1)(E)	Atmospheric Units	12 ppm or 0.015 lbs/10 <sup>6</sup> Btu	Submit Application for Permit to Construct
(c)(1)(F)	Group I Units	5 ppm or 0.0062 lbs/10 <sup>6</sup> Btu	Unit(s) Shall be in Full Compliance
(c)(1)(H)	Group II Units 100% of units (by heat input)	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu	Submit Application for Permit to Construct
(c)(1)(I)	Group III Units 75% or more of units (by heat input)	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu	Unit Shall be in Full Compliance

Reference: Rule 1146 (c)(1)

- On or before January 1, 2014, the owner or operator shall subject all of the specific categories of units within the facility to the NOX emission limits and schedules per Table 1146-1

**Table 1146-1 – Standard Compliance Limits and Schedule**

Rule Reference	Category	NOx Limit	Requirement
(c)(1)(E)	Atmospheric Units	12 ppm or 0.015 lbs/10 <sup>6</sup> Btu	Unit(s) Shall be in Full Compliance
(c)(1)(H)	Group II Units 100% of units (by heat input)	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu	Unit(s) Shall be in Full Compliance
(c)(1)(J)	Group III Units 100% of units (by heat input)	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu	Submit Application for Permit to Construct

Reference: Rule 1146 (c)(1)

- On or before January 1, 2013, In lieu of complying with the NOx emission limits and schedules specified in paragraph (c)(1), the owner or operator may elect to subject all of the units within the facility to the requirements specified in Table 1146-2. The owner or operator that fails to submit a Compliance Plan or Application for Permit to Construct pursuant to the schedule specified in Table 1146-1 for any of the Group II units shall be subject to the NOx limits and schedule specified in Table 1146-2 below.

**Table 1146-2 Enhanced Compliance Limits and Schedule with only 2013 and January 1, 2014 Due Dates included**

Rule Reference	Category	Limit	Requirement
(c)(2)(A)	Group II Units 75% or more of units (by heat input)	5 ppm or 0.0062 lbs/10 <sup>6</sup> Btu	By January 1, 2013, submit Application for Permit to Construct. By January 1, 2014, unit shall be in full compliance.

Reference: Rule 1146 (c)(2)

Contact: Combustion Hotline (909) 396-3419

**Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (Rule 1146.1)**

- By January 1, 2013, an owner or operator of the following units subject to subdivision (a) must comply with one of the following NOx emission limits specified in Table 1146.1-1 and submit an application for a permit

to construct to operate such units in compliance with the selected emission limit and the corresponding permit application:

**Table 1146.1-1**

Unit Category	Limit
Atmospheric Units	12 ppm or 0.015 lbs/10 <sup>6</sup> Btu
Any Units Fired on Natural Gas Located at Schools and Universities, Excluding Atmospheric Units, and Thermal Fluid Heaters	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu

Reference: Rule 1146.1 (c)(2)

- By January 1, 2014, the owner or operator of any unit subject to subdivision (a) must have selected to comply with one of the following NOX emission limits specified in Table 1146.1-1 and submit an application for a permit to construct to operate the unit in compliance with the selected emission limit or the unit must be in full compliance by the above date as follows:

**Table 1146.1-1**

Unit Category	Limit	Requirement
Any Units Fired on Landfill Gas	25 ppm	Submit Application for Permit to Construct
Any Units Fired on Digester Gas	15 ppm	Submit Application for Permit to Construct
Atmospheric Units	12 ppm or 0.015 lbs/10 <sup>6</sup> Btu	Unit shall be in Full Compliance
Any Units Fired on Natural Gas Located at Schools and Universities, Excluding Atmospheric Units, and Thermal Fluid Heaters	9 ppm or 0.011 lbs/10 <sup>6</sup> Btu	Unit shall be in Full Compliance

Reference: Rule 1146 (c)(2)

Contact: Combustion Hotline (909) 396-3419

**NOx Reductions from Miscellaneous Sources (Rule 1147)**

- NOTE: Rule 1147 applies to permitted equipment units. Because proposed amendments to Rules 219 and 222 may, upon adoption, exempt certain permitted equipment units (e.g., tar pots, power washers, asphalt day tankers, asphalt pavement heaters) from permitting requirements, such units may no longer be required to comply with Rule 1147.

**Table 1 – NOx Emission Limit**

Equipment Categories	NOx Emission Limit PPM @ 3% O <sub>2</sub> , dry or Pound/mmBtu heat input		
	Process Temperature		
Gaseous Fuel-Fired Equipment	≤ 800° F	> 800° F and < 1200° F	≥ 1200° F
Asphalt Manufacturing Operation	40 ppm	40 ppm	
Afterburner, Degassing Unit, Remediation Unit, Thermal Oxidizer, Catalytic Oxidizer or Vapor Incinerator <sup>1</sup>	30 ppm or 0.036 lb/mmBtu	60 ppm or 0.073 lb/mmBtu	60 ppm or 0.073 lb/mmBtu
Evaporator, Fryer, Heated Process Tank, or Parts Washer	60 ppm or 0.073 lb/mmBtu	60 ppm or 0.073 lb/mmBtu	
Metal Heat Treating, Metal Melting Furnace, Metal Pot, or Tar Pot	60 ppm or 0.073 lb/mmBtu	60 ppm or 0.073 lb/mmBtu	60 ppm or 0.073 lb/mmBtu
Oven, Dehydrator, Dryer, Heater, Kiln, Crematory, Incinerator, Calciner, Cooker, Roaster, Furnace, or Heated Storage Tank	30 ppm or 0.036 lb/mmBtu	30 ppm or 0.036 lb/mmBtu	60 ppm or 0.073 lb/mmBtu
Make-Up Air Heater or other Air Heater located outside of building with temperature controlled zone inside building	30 ppm or 0.036 lb/mmBtu		
Tenter Frame or Fabric or Carpet Dryer	30 ppm or 0.036 lb/mmBtu		
Other Unit or Process Temperature	30 ppm or 0.036 lb/mmBtu	30 ppm or 0.036 lb/mmBtu	60 ppm or 0.073 lb/mmBtu
Liquid Fuel-Fired	≤ 800° F	> 800° F and	≥ 1200° F
All liquid fuel-fired Units	40 ppm or 0.053 lb/mmBtu	40 ppm or 0.053 lb/mmBtu	60 ppm or 0.080 lb/mmBtu

1. Emission limit applies to burners in units fueled by 100% natural gas that are used to incinerate air toxics, VOCs, or other vapors; or to heat a unit. The emission limit applies

solely when burning 100% fuel and not when the burner is incinerating air toxics, VOCs, or other vapors. The unit shall be tested or certified to meet the emission limit while fueled with natural gas

Reference Rule 1147 (c)(1)

**Table 2 – Compliance Schedule for In-Use Units**

Equipment Category(ies)	Submit Permit Application	Unit Shall Be in Compliance (see also paragraphs (c) (4,6) below)
Tar Pot		All new permit applications beginning January 1, 2013
Afterburner, degassing unit, catalytic oxidizer, thermal oxidizer, vapor incinerator, evaporator, food oven, fryer, heated process tank, parts washer or spray booth make-up air heater manufactured prior to 1998	December 1, 2013	July 1, 2014
Other UNIT manufactured prior to 1998	December 1, 2012	July 1, 2013
Any UNIT manufactured in 1998	December 1, 2012	July 1, 2013

Reference Rule 1147 (c)(1)

- Notwithstanding the requirements of paragraph (c)(1), units with combustion modifications completed prior to December 5, 2008 and after January 1, 2000 that resulted in replacement of more than 75% of the rated heat input capacity shall comply with the applicable emission limit specified in Table 1 of paragraph (c)(1) ten years from the date the modification was performed.

Reference: Rule 1147 (c)(4)

- Notwithstanding the requirements of paragraph (c)(1), a unit with a District permit to construct or permit to operate, and with emissions of one pound per day or less of nitrogen oxides, may defer compliance with the applicable emission limit specified in Table 1 of paragraph (c)(1) for up to five years from the applicable compliance date in Table 2 of (c)(1). NOx emissions of one pound per day or less shall be demonstrated by one of the following requirements of 1147 (c)(6)(A-C)

Reference: Rule 1147 (c)(6).

- An alternative Compliance Plan for owners or operators of facilities with pollution control unit(s) in series with process unit(s) (e.g., an oven and afterburner) that have NOx emissions greater than one pound per day and different compliance dates may elect

to synchronize compliance of all units in the series on one date no later than December 1, 2013.

Reference: Rule 1147 (c)(14)(B)

- New food ovens, fryers, heated process tanks, parts washers, and evaporators installed after December 5, 2008 and operating before January 1, 2014, are exempt from the emission limit in Table 1 until July 1 of the year the unit is 15 years old.

Reference: Rule 1147 (g)(6)

**Contact: Combustion Hotline (909) 396-3419**

**Particulate Matter (PM) Control Devices (Rule 1155)**

- On or before January 1, 2013, the operator of hot mix asphalt production equipment shall comply with the 0.01 gr/dscf limit unless the operator has documentation that demonstrates that new fabric filters have been installed within 12 months prior to December 4, 2009, in which case the hot mix asphalt production equipment shall comply by January 1, 2014 or at the end of the filter useful life, whichever occurs sooner. Reference: Rule 1155 (d)(2)(A)

**Contact: Scott Caso (909) 396-2218**

**Liquefied Petroleum Gas (LPG) Transfer and Dispensing (Rule 1177)**

- Effective July 1, 2013, an owner/operator of an Liquefied Petroleum Gas (LPG) bulk loading facility shall not transfer, allow the transfer or provide equipment for the transfer of LPG, from any cargo tank to a stationary storage tank located at the facility or from any stationary storage tank to a cargo tank unless all the following conditions are met:

- (A) Any railroad tank car or mobile fueler equipped with an LPG vapor recovery or equalization system is maintained and operated according to the specifications of the vapor recovery and equalization system manufacturer;
- (B) All vapor return lines and liquid lines are properly connected between the cargo tank and the stationary storage tank so that associated connectors are maintained in a vapor tight and liquid tight condition during LPG transfer; and
- (C) The transfer hose assembly, which includes the hose, fittings and gaskets, is properly maintained in order to maintain vapor tight conditions.

Reference: Rule 1177 (d)(1)

- Effective July 1, 2013, an owner/operator of an LPG bulk loading facility shall not transfer, allow the transfer or

provide equipment for the transfer of LPG, from any cargo tank to a stationary storage tank located at the facility or from any stationary storage tank to a cargo tank unless all the following conditions are met:

(A) The leased or owned stationary storage tank meets one or more of the following conditions:

(i) The stationary storage tank Fixed Liquid Level Gauge (FLLG) is closed during LPG transfer, using a filling technique or technology that monitors the maximum fill level to prevent overfilling without use of the FLLG; or  
 (ii) The stationary storage tank is equipped with a low emission FLLG according to the following schedule:

(I) If the stationary storage tank is either put into or returned to service, it shall be equipped with a low emission FLLG; and

(II) If the stationary storage tank does not meet the provisions of subclause (d)(2)(A)(ii)(I), it shall be equipped with a low emission FLLG by July 1, 2015, or by July 1, 2017 if the owner/operator demonstrates through documentation prior to July 1, 2015 that the stationary storage tank being filled is equipped with an FLLG that cannot be retrofitted with a low emission FLLG in a safe manner without relocation of the stationary storage tank. Documentation shall be made available to the Executive Officer upon request; and

(B) The cargo tank, if equipped with a FLLG, meets one or more of the following conditions:

(i) The cargo tank FLLG is closed while being filled using a filling technique or technology that monitors the maximum fill level to prevent overfilling without use of the FLLG; or  
 (ii) The cargo tank FLLG is equipped with a low emission FLLG according to the following schedule:

(I) If manufactured on or after July 1, 2013, the cargo tank shall be equipped exclusively with one or more low emission FLLGs; or

(II) The cargo tank shall be equipped exclusively with one or more low emission FLLGs by July 1, 2013, or as soon thereafter at the next service in which the cargo tank is evacuated, but no later than July 1, 2017; and

(C) If the container is a cylinder or portable storage tank, the container shall meet one or more of the following conditions:

(i) The cylinder or portable storage

tank FLLG is closed during LPG transfer, using a fill by weight technique or alternative technique or technology that monitors the maximum fill level to prevent overfilling without use of the FLLG; or  
 (ii) The cylinder or portable storage tank is equipped with a low emission FLLG no later than July 1, 2017; and  
 (D) Notwithstanding the above effective date of July 1, 2013, the stationary storage tank, cargo tank or cylinder used to transfer or dispense LPG is fitted exclusively with LPG low emission connectors that are maintained in a vapor tight and liquid tight condition, except when actively connecting or disconnecting, after December 31, 2013.

*Reference: Rule 1177 (d)(2)*

- Effective January 1, 2013, for purposes of leak detection and repair, the owner/operator of any LPG bulk loading facility or any LPG transfer and dispensing facility that offers LPG for sale to an end user shall:

(1) On a daily basis, physically check all connectors involved with the transfer of LPG for evidence of leakage, such as the presence of odorant, hissing, or staining.

(2) Conduct an inspection as defined in paragraph (c)(9), for any owned or leased stationary storage tank or cargo tank used to supply LPG to any other stationary storage tank or cargo tank once every 90 days, or if the time between fillings is greater than 90 days, during or upon completion of a transfer of LPG.

(3) Conduct a periodic training program for any employee that implements the provisions of paragraph (e)(1) or (e)(2). The training program shall incorporate written training procedures; the training frequency and the scheduled training dates; and a written record of the dates of training provided for each employee.

(4) Remove from service any connector which is identified as leaking in accordance with paragraph (e)(1) or (e)(2). The connector shall not be put back into service until the leaky connector is repaired or replaced and inspected. An entry of such leak and repair/replacement activity shall be recorded in accordance with paragraph (f)(1) before the connector is returned to service. The identified leak repaired pursuant to this paragraph shall not

constitute a violation of subparagraph (d)(1)(B) and (d)(2)(D).

*Reference: Rule 1177 (e)*

- Effective January 1, 2013, the following records shall be maintained for a period of at least two years and shall be made available to the Executive Officer upon request:

(A) A person who performs the installation of FLLGs or connectors, inspections, as defined by paragraph (c)(9), or repairs connectors at any LPG transfer and dispensing facility or any LPG bulk loading facility, shall provide the owner/operator with all applicable records listed below immediately after service is completed, and the owner/operator shall maintain all provided records:

(i) Records of all FLLGs and connectors installed.

(ii) Service or sales receipts or repair logs confirming follow-up repairs for any leaks identified and repaired in accordance with paragraph (e)(1) and (e)(2), which shall include:

(I) Date and time of each repair;

(II) The name of any person who performed the repair and, if applicable, the name, address and phone number of their employer;

(III) A description of the service performed; and,

(IV) Identification of the FLLG or connector that was installed, repaired, serviced or removed, such as FLLG or connector identification information and FLLG or connector manufacturer name.

(B) The owner/operator of any railroad tank car or mobile fueler equipped with an LPG vapor recovery or equalization system shall maintain records to demonstrate that the system is maintained and operated according to the specifications of the vapor recovery and equalization system manufacturer.

*Reference: Rule 1177 (f)(1)*

- For Calendar Year 2013, the owner/operator of an LPG bulk loading facility or an LPG transfer and dispensing facility that offers LPG for sale to an end user shall submit an annual report containing the monthly LPG purchase volume and dispensing volume to the Executive Officer in a format approved by the Executive Officer. The reporting facility shall maintain copies of all purchase and sales records used to support the submitted report for a period of at

least two years, and make such records available to the Executive Officer. Reference: Rule 1177(g)(1) In lieu of submitting the above annual report referenced in (g)(1), the owner/operator of an LPG transfer and dispensing facility that offers LPG for sale to an end user shall meet the following conditions:

(A) Provide that all the facility's LPG suppliers for that prior calendar year include the name of the facility with the supplier's annual report and have the supplier notify the District and the facility by March 1 of the reporting year that the supplier will include the facility in its annual report.

(B) The facility shall maintain copies of all purchase records and notifications from all LPG suppliers for a period of at least two years, and make such records available to the Executive Officer upon request. Reference: Rule 1177(g)(2)

- For Calendar Year 2013, the owner/operator of an LPG bulk loading facility shall submit to the Executive Officer by July 1, 2014, an end of year inventory of all facility located LPG low emission connectors, including all LPG low emission connectors installed on facility-owned or leased mobile fuelers associated with the transfer or storage of LPG. This inventory shall include the specific storage or transfer equipment or operation involved and the manufacturer and identification or part number of all low emission connectors.

Reference: Rule 1177 (g)(3)

- For Calendar Year 2013, the owner/operator of an LPG bulk loading facility shall submit to the Executive Officer an end of year inventory of all facility located containers, including all facility-owned or leased mobile fuelers associated with the transfer or storage of LPG that are equipped with one or more FLLGs. The inventory shall include a summary, by size and classification and the associated number of installed low emission FLLGs.

Reference: Rule 1177 (g)(4)

**Contact: Ken Ellis (909) 396-2457**

**Reduction of Refrigerant Emissions from Stationary Refrigeration Systems (Rule 1415.1)**

- The owner/operator of a refrigeration system shall comply with the provision in (d)(1)(A) until registered with CARB pursuant to the CARB Refrigerant Management Program registration schedule. The following chart includes only those with 2013 registration dates:

CARB Registration Requirement with Information Specified in Subparagraph (d)(1)(C)		
Refrigerant*Full Charge Weight (pounds)	Beginning Date	Registration
> 2,000	January 1 – December 31, 2012	March 1, 2013

\*High Global Warming Potential Refrigerant  
Reference: Rule 1415.1 (d)(1)(B)(i)

- CARB Annual Reporting Requirements

CARB Annual Reporting Requirement with information per (f)(2)			
Refrigerant*Full Charge Weight (pounds)	Operation Start Date	Annual Report Start Due Date (on or before)**	Report Year
> 2,000	Before January 1, 2012	March 1, 2013	2012
> 2,000	On or After January 1, 2012	March 1 of year following start of operation	Start Year
> 200 but < 2,000	Before January 1, 2014	March 1, 2014	2013

\*High Global Warming Potential Refrigerant  
\*\*An annual report is due every year after the initial report on or before March 1.  
Reference: Rule 1415.1 (f)(1)(A-D)  
**Contact: Rizaldy Calungcagin (909) 396-2315**

**Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines (Rule 1470)**

- On or after January 1, 2013, any new stationary emergency standby diesel-fueled engines (>50 bhp) installed and with an application for Permit to Construct or Permit to Operate deemed complete and if located at a sensitive receptor or 50 meters or less from a sensitive receptor, except those located on school grounds or 100 meters or less from a school which exists at the date the application for Permit to Construct or Permit to Operate is deemed complete, whichever is

earlier, shall be a certified CI engine. The new stationary emergency standby diesel-fueled engine shall also meet the diesel PM standard for off-road engines of the same maximum rated power as specified in Table 1, in effect on the date of acquisition or submittal, as defined in subdivision (b).

**Table 1**

Engine Size	Requirement	Emission Rate
50 < HP	On or after	0.15 g/bhp-hr
< 175	January 1, 2013	
175 ≤ HP ≤ 750	On or after January 1, 2013	0.01 g/bhp-hr <sup>1</sup>
>750 HP	January 1, 2013- June 30, 2015	0.075 g/bhp-hr

<sup>1</sup>Diesel PM standard as specified in the Off-Road Compression Ignition Engine Standards for off-road engines with the same maximum rated power (Title 13CCR Section 2423).

Reference: Rule 1470 (c)(2)(C)(iv)(I)

- Two or more new emergency standby engines that are individually rated below 175 bhp and located within 50 meters of the same sensitive receptor shall each emit diesel PM at a rate no greater than 0.01 g/bhp-hr if:
  - the cumulative maximum rated horsepower of such engines is equal to or greater than 175 bhp; and
  - applications for such engines are deemed complete for either a Permit to Construct or Permit to Operate on or after January 1, 2013; and
  - applications for such engines are deemed complete within 18 months of each other.

Reference: Rule 1470 (c)(2)(C)(iv)(II)(bb)

- Any new stationary emergency standby diesel-fueled engine (>50 bhp) installed and with an application for Permit to Construct or Permit to Operate deemed complete on or after January 1, 2013, and located greater than 50 meters from a sensitive receptor, except those located on school grounds or 100 meters or less from a school which exists at the date the application for Permit to Construct or Permit to Operate is deemed complete, whichever is earlier, shall be a certified CI engine that emits diesel PM at a rate less than or equal to 0.15 g/bhp-hr.

Reference: Rule 1470 (c)(2)(C)(vi)

- The diesel PM requirements of subparagraph (c)(2)(C)(iv) do not apply to new stationary emergency standby diesel-fueled engines installed and with an application for Permit to Construct or Permit to Operate deemed complete on or after January 1, 2013, provided the following conditions are met:
  - the new stationary emergency standby engine is a replacement of an existing stationary emergency standby engine

used for the same purpose; and

- the new stationary emergency standby engine is installed or to be installed at the same physical location as the engine being replaced; and
- the engine owner can demonstrate to the satisfaction of the Executive Officer, that there is insufficient space in the area where the engine is located such that installation or addition of emission control equipment would require demolition or removal of one or more load bearing walls, the floor, or the ceiling; and
- the installation of the new stationary emergency standby engine or other ancillary equipment, excluding emission control equipment, does not require the demolition or removal of one or more load bearing walls, the floor, or the ceiling; and
- engines meeting all of the requirements of subparagraphs (h)(16)(A) through (h)(16)(D) shall be a certified CI engine that emits diesel PM at a rate less than or equal to 0.15 g/bhp-hr; and
- the diesel PM requirement is not required pursuant to South Coast Air Quality Management District Rule 1401 – New Source Review of Toxic Air Contaminants or Regulation XIII – New Source Review.

Reference: Rule 1470 (h)(16)

**Contact: Combustion Hotline  
(909) 396-3419**

**Requirements for Facilities with Multiple Stationary Emergency Standby Diesel-Fueled Internal Combustion Engines (Rule 1472)**

All facilities with the exception of Health Facilities, Colleges, Universities, and Government Agencies per paragraphs (g)(4) and (g)(5) must comply with the requirements of subdivision (f) by the following final compliance dates. The highest Engine Group Index at a facility shall determine the date by which the entire facility must comply:

- For facilities with Index  $\geq 3$  and  $< 4$ :
  - With 3 engines, final compliance date is Jan. 1, 2013
- For facilities with Index  $\geq 2$  and  $< 3$ :
  - With 4 engines, final compliance date is Jan. 1, 2013
  - With 3 engines, final compliance date is July 1, 2013
- For facilities with Index  $\geq 1.5$  and  $< 2$ :
  - With 5 or 6 engines, final compliance date is Jan. 1, 2013.
  - With 4 engines, final compliance date is July 1, 2013.

- With 3 engines, final compliance date is Jan. 1, 2014.
- For facilities with Index  $> 1$  and  $< 1.5$ :
  - With 7 or more engines, final compliance date is Jan. 1, 2013.
  - With 5 or 6 engines, final compliance date is July 1, 2013
  - With 4 engines, final compliance date is January 1, 2014

Reference: Rule 1472 (g)(3)

- Health facilities, colleges, universities, and government agencies (including all federal, state, and local governmental agencies and public districts) shall comply with the schedule in Table 4 except those health facilities granted a time extension pursuant to paragraph (d)(6). The highest Engine Group Index at a facility shall determine the date by which the entire facility must comply. The following have the compliance due dates in 2013 and January 1, 2014:
  - Facilities with Index  $\geq 4$ , the final compliance date is January 1, 2013
  - Facilities with Index  $\geq 3$  and  $< 4$ , the final compliance date is July 1, 2013
  - Facilities with Index  $\geq 2$  and  $< 3$ , the final compliance date is January 1, 2014

Reference: Rule 1472 (g)(4)

**Contact: Combustion Hotline  
(909) 396-3419**

**Allocations for Oxides of Nitrogen (NOx) and Oxides of Sulfur (SOx) (Rule 2002)**

- SOx RTC Holdings as of November 5, 2010, for compliance years 2013 shall be adjusted to achieve an overall reduction in the amount of 2,190,000 lbs. Reference: Rule 2002 (f)(1)(I)
- Non-tradable/Non-usable SOx RTC Adjustment Factors for compliance year 2013 shall be 0.0.

Reference: Rule 2002 (f)(1)(K)

- SOx Allocations for compliance years 2013 and after, for facilities that enter RECLAIM after November 5, 2010, and for basic equipment listed in Table 4 shall be determined according to the BARCT level listed in Table 4 or the permitted emission limits, whichever is lower. Reference: Rule 2002 (f)(1)(Q)

**Contact: RECLAIM Hotline  
(909) 396-3119**

# RULE UPDATE

The following proposed amended rules and regulations are tentatively scheduled for hearings at upcoming SCAQMD Governing Board meetings. To verify whether scheduling changes have occurred, visit the SCAQMD website at [www.aqmd.gov/hb/gb\\_cal95.html](http://www.aqmd.gov/hb/gb_cal95.html) and check the Rules and Control Measure item on the Governing Board meeting agenda or call the Clerk of the Board's Office at (909) 396-2500.

Copies of SCAQMD rules and regulations can be downloaded from the website at [www.aqmd.gov/rulesreg.html](http://www.aqmd.gov/rulesreg.html) or provided by SCAQMD's Public Information Center, (909) 396-2039.

## February

### Rule 102 - Definition of Terms

Proposed amendments to Rule 102 to include compounds exempted by the U.S. EPA with consideration for health risks as defined by the Office of Environmental Health Hazard Assessment (OEHHA).

For more information, contact Naveen Berry at (909) 396-2363 or [nberry@aqmd.gov](mailto:nberry@aqmd.gov)

## March

### Rule 219 - Equipment Not Requiring a Written Permit Pursuant to Regulation II

Staff will consider exempting low emitting processes/equipment that require written permits, and include them under the Rule 222 Filing Program, thus streamlining the permitting process and reducing the cost for facilities and clarify permitting requirements for several other processes.

For more information, contact Naveen Berry at (909) 396-2363 or [nberry@aqmd.gov](mailto:nberry@aqmd.gov)

### Rule 222 - Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II

Staff will evaluate currently permitted equipment with very low emissions and consider incorporating into the Rule 222 Filing Program. In addition, staff will evaluate other equipment currently exempt from permits, but subject to source specific rules, for inclusion into Rule 222 Filing Program.

For more information, contact Naveen Berry at (909) 396-2363 or [nberry@aqmd.gov](mailto:nberry@aqmd.gov)

### Rule 1114 - Control of Emissions from Refinery Coking Operations

Proposed Rule 1114 will establish emission limits and other requirements for the operation of coking units at petroleum refineries.

For more information, contact Naveen Berry at (909) 396-2363 or [nberry@aqmd.gov](mailto:nberry@aqmd.gov)

### Rule 1148 - Thermally Enhanced Oil Recovery Wells Rule- 1148.1 - Oil and Gas Production Wells

Rules 1148 and 1148.1 will be evaluated to determine if additional requirements need to be added to address hydraulic fracturing activities.

For more information, contact Susan Nakamura at (909) 396-3105 or [SNakamura@aqmd.gov](mailto:SNakamura@aqmd.gov)

### Rule 1148.2 Hydraulic Fracturing of Oil and Gas Wells

Proposed Rule 1148.2 will propose reporting and public notification requirements for oil and gas production activities when hydraulic fracturing is used.

For more information, contact Susan Nakamura at (909) 396-3105 or [SNakamura@aqmd.gov](mailto:SNakamura@aqmd.gov)

### Rule 1304.1 - Fees for New Source Review Exempt Equipment, Facilities and Processes

The proposed rule will establish an approach to assess fees for equipment, facilities, and processes currently exempted from the New Source Review Program offset requirements under Rule 1304, paragraph (a)(2).

For more information, contact Naveen Berry at (909) 396-2363 or [nberry@aqmd.gov](mailto:nberry@aqmd.gov)

## Upcoming Events

### Coachella Valley Environmental Justice Leadership Summit

February 23

7:45 a.m. – 5:30 p.m.

Desert Mirage High School

Coachella, CA

For more information email [comitecivico@sbcglobal.net](mailto:comitecivico@sbcglobal.net)

Or visit website [www.ejsummit.com](http://www.ejsummit.com) or call (760) 960-1716

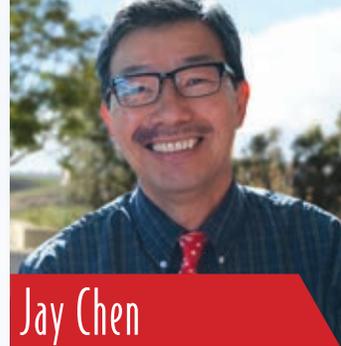
## Did You Know

**G**rilling outside on a traditional barbecue grill can be a significant source of air pollution. A simple solution is to replace your old grill with a natural gas grill. Check to see if your local utility company offers a rebate for the purchase of a natural gas grill, and make sure that you remove your old grill from circulation.



# Clean Air PEOPLE

Meet the diversely talented staff at the SCAQMD



Jay Chen

SCAQMD  
Advisor

**A**s Jay Chen nears retirement in early 2013, he can reflect on nearly 27 years at the SCAQMD. “I have been able to apply all of my technical skills to do challenging and rewarding work.”

Jay started as an Assistant Air Quality Engineer in 1986, spending his “first years in the dumps,” working in the landfill unit. He quickly ascended to Senior Engineer. Currently, Jay is a Senior Air Quality Engineering Manager in the office of Engineering and Compliance. He oversees approximately 40 engineers and other staff in the Refinery, Waste Management and Terminals sections.

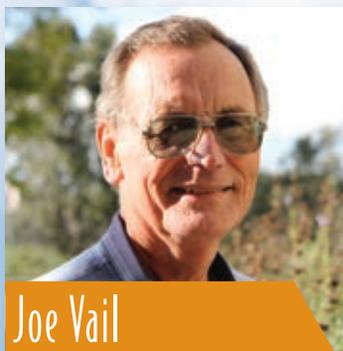
When Jay travels back to Taiwan every year or two, he is often called upon by the Taiwan Environmental Protection Administration to share his air quality rule implementation knowledge and experience.

Jay earned a B.S. in Chemical Engineering in Taiwan, and spent several years after college working for an American engineering firm

there. Jay and his wife Linda, who is now retired from a career in international trade, came to United States from Taiwan in 1985. They live in Cerritos, as do other family members and every Saturday morning, Jay teaches Tai Chi.

His son Michael, has Lakers season tickets, while Jay’s other son, Steve, an IT expert for Mattel, lives in downtown Los Angeles. This means that Jay and his sons don’t have any parking issues when they go to the games. Both sons are happily married, but Jay and Linda have no grandchildren...yet.

Jay is looking forward to going on cruises with Linda to South America, Antarctica and other exotic destinations. Taiko, his energetic Taiwan Mountain Dog, will no doubt keep him busy, too.



Joe Vail

**J**oe Vail, an Air Quality Chemist, has been working in SCAQMD’s laboratory for 23 years. His responsibilities include analyzing the samples from industrial sources and private businesses as well as conducting quantitative chemical and physical analyses. According to Joe, the variability in his day-to-day activity is one of the most appealing aspects of his job.

Joe earned his B.S. in Chemistry and M.S. in Biochemistry from Cal Poly Pomona. He met his wife, Deidre, in organic chemistry lab while they were both students there in the late 60s and early 70s. Their sons, Trenton and Tyler, currently attend Cal Poly Pomona, and are studying landscape architecture and

geology, respectively. Deidre teaches at Mt. San Antonio College. Her classes focus on biology, human sexuality and reproduction, development, and aging, or, as Deidre is fond of saying, “from the womb to the tomb.”

In their free time the Vails go antiquing. Joe focuses on collecting scientific antiquities, such as Bunsen burners, scales, glassware, and scientific books published before the 1900s. Deidre collects Victorian antiques and turn-of-the-century dinnerware serving pieces and grooming aids.

Joe, an avid bicyclist who regularly participates in SCAQMD’s annual “Bike to Work Day” event, also devotes a portion of his time to Boy Scout Troop 737, even though his sons have not been part of the program for many years. He recently stepped down as Scoutmaster and now assists with the administrative needs of the organization.

The Vails own a log cabin in Idyllwild is where Joe envisions he and his wife of 30 years will be spending a lot of their time.

**J**amie Allen began her SCAQMD career as a student worker during her senior year of high school. She worked in the Lab where she helped determine the air pollutants from extracted air samples that were brought in from air monitoring stations. At the time, Jamie was majoring in biochemistry at UC San Diego, so she enjoyed being hands-on in the lab.

While she truly enjoys science, she realized biochemistry wasn’t for her and since one of her other passions is art, she changed majors, and earned her B.A. in Studio Art. While studying art, Jamie worked at a Genetic Circuits research lab all four years of college, so she could enjoy both of her passions at the same time.

After graduating, Jamie moved back to Covina, working at a printing and mailing shop for three years before joining SCAQMD in May 2008.

Jamie has worn many hats at SCAQMD, having worked in four different departments in her first four years: Records, Public Records, Finance, and currently, as a Data Technician in Engineering & Compliance. She likes that fact that she has moved around so much because that has enabled her to learn so much about SCAQMD in such

a short period of time.

Recently, a friend of Jamie’s put on an art show for charity where Jamie entered some of her paintings. She mainly enjoys painting and/or drawing abstracts that involve geometric patterns. She even has a tattoo on her back of one of her own drawings which she describes as a “Mechanical Angel.”

In her free time, Jamie enjoys going to car shows with her father, watching horror movies, and taking her godson to Disneyland. One of her favorite things about working at the SCAQMD is being able to see her brother, Jacob, and her mom, June, every day, as they too found their careers at SCAQMD.



Jamie Allen



South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, CA 91765-4178

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## Address Service Requested



## Briefly...

### Rule Compliance Promotion Classes

#### Rule 403 – Controlling Dust in the South Coast Air Basin

- Every third Wednesday of the month.

This half day-class is held at SCAQMD's Diamond Bar Headquarters from 8:30 a.m. to 11:30 a.m. There is no fee, but pre-registration is required. Class and registration information is available at [www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Controlling Dust Control in the South Coast Air Basin (Rule 403)."

To register call toll free 1-866-861-DUST (3878) or e-mail [dustcontrol@aqmd.gov](mailto:dustcontrol@aqmd.gov)

#### Rule 403 & 401.1 – Controlling Dust in the Coachella Valley

- Every third Thursday of the month.

This course is held from 1:00 p.m. to 4:30 p.m. at the Coachella Valley Association of Governments, Room 119, 73-710 Fred Waring Dr., Palm Desert, CA, 92260. There is no fee, but pre-registration is required. Class and registration information is available at [www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Controlling Dust Control in the Coachella Valley (Rule 403 & 403.1)"

To register call toll free 1-866-861-DUST (3878) or email [dustcontrol@aqmd.gov](mailto:dustcontrol@aqmd.gov)

#### Rule 463 & Rule 1178 - Certified Person Compliance Assistance Class

- January 9

Classes are held from 8:00 a.m. to 5:30 p.m. at SCAQMD's Diamond Bar Headquarters (Room GB). Registration fee is \$72.01 per person and pre-registration is required. Class and registration information is available at [www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Rule 463-Certified Person Compliance Assistance Class."

To register, contact Rafael Reynosa at (909) 396-2360 or at [rreynosa@aqmd.gov](mailto:rreynosa@aqmd.gov)

#### Rule 1110.2 - Compliance Training Class: Combustion Gas Portable Analyzer Training & Certification

- January 17

This half-day class is held from 8:30 a.m. to 12:30 p.m. at SCAQMD's Diamond Bar Headquarters (Room GB). Pre-registration is required to attend this training. The training is provided at no cost. Class and registration information is available at [www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Rule 1110.2-Portable Analyzer Training & Certification."

To register, fax request to 1-909-396-2608 or email [nleone@aqmd.gov](mailto:nleone@aqmd.gov)

#### Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities Class

- January 16, 2013
- February 13, 2013
- March 13, 2013
- April 17, 2013

Classes are held from 8:00 a.m. – 1:00 p.m. at SCAQMD's Diamond Bar Headquarters (Room

CC6). Registration fee is \$75.50 per person and pre-registration is required. Class and registration information is available at [www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Rule 1469 Hexavalent Chromium Training Certification."

To register, call (909) 396-2658 or email [doswald@aqmd.gov](mailto:doswald@aqmd.gov)

#### Rule 2202 - Employee Transportation Coordinator (ETC) Training

- January 17, SCAQMD Headquarters, Diamond Bar
- February 7, Courtyard by Marriott, Culver City
- February 14, SCAQMD Headquarters, Diamond Bar
- February 28, Warner Center Marriott, Woodland Hills
- March 7, Hilton Orange County /Costa Mesa, Costa Mesa
- March 21, SCAQMD Headquarters, Diamond Bar

Classes are held from 8:00 a.m. to 5:00 p.m. each day. Enrollment is limited to 20 students. Classes will be filled on a "first-come, first-served" basis. Pre-registration is required. Enrollment fee is \$160.75 per person. Class information is available at [http://www.aqmd.gov/aqmd/aqmd\\_training.htm](http://www.aqmd.gov/aqmd/aqmd_training.htm) under "Rule 2202 - Employee Transportation Coordinator Training."

To register, call (909) 396-2777 or e-mail [etctraining@aqmd.gov](mailto:etctraining@aqmd.gov)

## SCAQMD Advisor

This bimonthly news publication is produced by the South Coast Air Quality Management District's Legislative & Public Affairs Office. SCAQMD is the air pollution control agency for Orange County and major portions of Los Angeles, San Bernardino and Riverside counties. *SCAQMD does not endorse or warrant any products, services or companies mentioned in this publication.*

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