



SCAQMD

*Cleaning
the air
that we
breathe...*

ADVISOR

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Draft Air Quality Management Plan Details How Region Will Achieve Clean Air

In late June, SCAQMD released its Draft 2016 Air Quality Management Plan, a comprehensive multi-year blueprint for how the South Coast region will meet federal and state air quality standards and achieve healthful air.

The 2016 Plan represents a thorough analysis of existing and potential regulatory control options, and includes available, proven, and cost effective and alternative strategies. The Plan seeks to achieve multiple goals in partnership with other public and private entities promoting reductions in greenhouse gases and exposure to toxic chemicals, as well as increasing efficiencies in energy use, transportation, and goods movement. The Plan encourages the state and federal governments to reduce their fair share of emissions from those transportation sources where SCAQMD has limited regulatory authority. Even if all stationary sources in the region (such as refineries, power plants, dry cleaners, gas stations,

etc.) eliminated their emissions, the region would still not meet federal air standards. The Plan also recognizes the critical importance of working with other agencies not only to develop funding for incentives to encourage accelerating the transition to cleaner vehicles, but also to modernize buildings and industrial facilities to cleaner technologies in a manner that provides benefits for air quality, local businesses and the region's economy.

Following the Draft Plan's release on June 30, 2016, SCAQMD held six workshops throughout the region to solicit public input. A revised plan will be issued in September that reflects this public input. Once the Governing Board adopts a final plan, currently scheduled for December, it will be forwarded to the California Air Resources Board (CARB), which will incorporate it into a State Implementation Plan (SIP) along with plans submitted by the other air districts

across the state. CARB's statewide plan must then be submitted to the United States Environmental Protection Agency (U.S. EPA) for its approval.

While the air in Southern California is significantly cleaner than it was in the past, the South Coast Basin still does not meet the existing Federal health standards for two types of air pollutants: ozone and particulate matter (PM 2.5). Nitrogen oxides (NOx) lead to the formation of both ozone and PM2.5. Therefore, the primary strategy included in the Draft Plan focuses on the reduction of NOx emissions. To meet the ozone standards, NOx emissions need to be reduced by an additional 43 and 55 percent by 2023 and 2031, respectively.

For more information on the Draft 2016 Air Quality Management Plan, visit www.bit.ly/Draft2016AQMP, or contact Michael Krause at mkrause@aqmd.gov or (909)396-2706.

SCAQMD Awards Nearly \$33 Million to Reduce Emissions from Locomotives, Rail Yard Equipment and Ships



In July, SCAQMD's Governing Board approved nearly \$33 million in goods movement projects to reduce diesel emissions at the region's two ports and along the goods movement corridor to the Inland Empire.

The award provides funding to replace eleven long-haul locomotives and one switcher locomotive with engines that meet the lowest emissions certification or cleaner; 71 rail yard diesel trucks and forklifts with zero-emission battery electric models; and related charging infrastructure. In addition, funding was awarded for two emission capture-and-control systems to be barge-mounted and used to reduce emissions from ships while at berth in the Ports of Long Beach and Los Angeles.

The new equipment and vehicles are

expected to provide long-term emission reduction benefits to the Southland by reducing an estimated 226 tons of nitrogen oxide (NOx) emissions and six tons of fine particulate (PM2.5) emissions per year.

The funds come from Proposition 1B general obligation bonds. Proposition 1B is a nearly \$20 million bond act passed by California voters in 2006 designed to fund state and local transportation projects as well as air quality improvement projects. To date, Proposition 1B funding has provided about \$400 million to SCAQMD to reduce diesel emissions from heavy-duty diesel trucks, locomotives and ships.

For more information, contact Fred Minassian at fminassian@aqmd.gov or (909) 396-2641.

SCAQMD Awarded U.S EPA "STAR" Research Grant

Local community activists will soon play a role in monitoring the air they breathe and sharing that data as part of a new program funded through a federal grant awarded to SCAQMD.

In August 2016, SCAQMD was awarded a prestigious and competitive \$750,000 Research Grant under the U.S. EPA Science to Achieve Results (STAR) Program to educate and engage local communities on the use and applications of low-cost portable air monitoring sensors.

The data collected by the portable monitors will be collected by SCAQMD, in collaboration with UCLA and Sonoma Technology Inc. (STI), to provide local California communities with the knowledge necessary to use and maintain "low-cost" air monitors and to correctly interpret sensor data.

Six communities from the South Coast Air Basin and central

and northern California areas will be selected to participate in this project. These six areas must also be located near specific sources of air pollution.

The project includes the development of a toolkit with information on best practices for data collection and data interpretation from these sensors. More than 150 air quality sensors will be deployed in six communities across California (20 to 30 sensors per community) for a period of at least one year at each community. Sensors will be selected based on testing results obtained within SCAQMD's Air Quality Sensor Performance Evaluation Center (AQ-SPEC) program and on specific air quality problems affecting the selected communities.

For more information, contact Andrea Polidori at apolidori@aqmd.gov or (909) 396-3283.



Tickets Available for SCAQMD's Annual Clean Air Awards

SCAQMD will host its 28th Annual Clean Air Awards luncheon on Friday, October 7, 2016 at the Riverside Convention Center in Downtown Riverside. This is the first time in its history that the event will be held in the Inland Empire.

The annual luncheon will recognize individuals, businesses, organizations and government entities for their commitment to improving the Southland's air quality. The Clean Air Awards honor those who have made outstanding strides toward clean air, while also encouraging and motivating others in their communities to get involved and make clean air a priority.

Awards will be presented in the categories of Innovative Clean Air Technology, Model Community Achievement, Clean Air Education and Outreach, Business Leadership in Air Quality, and Youth Leadership in Air Quality.

Tickets are on sale for \$40 each, or \$400 for a table of ten. Visit CleanAirAwards.com to purchase tickets.



First of a Network of Electric Vehicle Fast Charging Stations Opens in Calabasas

On August 10, a new electric vehicle DC fast charging station was opened at Calabasas City Hall. The 50 kW DC fast charging station can charge a battery electric vehicle to 80% of its capacity in less than 30 minutes. It takes four hours or more with a 6.5 kW Level 2 charging station, which is a typical charging station for workplaces and public sites.

The new DC fast charger was funded through a grant from the California Energy Commission. Project partners who provided additional cost sharing included EVgo as the network provider, Clean Fuel Connection as the installer,

Three Squares Inc. for educational outreach, UCLA Luskin Center for site selection modeling, and SCAQMD as the project administrator.

By the end of 2017, there will be 28 DC fast charging stations installed across the region through this program, and all will be fully accessible to the public. Increasing the use of plug-in electric vehicles is critical to achieving NOx mobile source emission reductions.

Visit socalfast.com for further information on the planned DC fast charging network or contact Patricia Kwon at pkwon@aqmd.gov or (909) 396-3065.

Sign Up to Receive Notice of Projects Subject to Prevention of Significant Deterioration (PSD)

Owners and/or operators planning projects to install or modify equipment that could emit or control air pollution in our region are required to first file an application to obtain a permit from SCAQMD. As part of its permit evaluation process, SCAQMD Regulation XVII requires that projects be reviewed to ensure that air quality does not significantly deteriorate while maintaining a margin for future industrial growth. During the review period, SCAQMD also notifies affected members of the public of such projects, depending on their location, nature, and scope.

To receive notices of projects under review, visit www.bit.ly/PSDnotice and complete and submit the form as directed.

Consider Replacing Your Wood Fireplace

During the winter months, many residents in Southern California, help to keep warm and create ambience with the use of their fireplace or wood-burning stove. This becomes an issue however as residents could unknowingly be contributing to the poor air quality in Southern California by burning wood.

When someone burns wood in a traditional fireplace, PM2.5 is emitted into the air. On average, wood burning releases five tons of PM2.5 a day collectively in the South Coast Air Basin. Among the ways that residents can reduce this pollution is by building smaller fires, using dry logs, and to “Check Before You Burn” by seeing if a mandatory “no burn” alert has been issued.

From November 1 through February 28, SCAQMD will issue a mandatory “no-burn” alert when unhealthy fine particulate or PM2.5 levels are forecast. No-burn alerts are issued one day in advance and last for 24 hours.

To receive alerts when a no-burn day is called, sign up at airalerts.org. To determine if an alert is in effect, visit the interactive no-burn alert map at aqmd.gov or call the toll-free hotline at 866-966-3293.

To eliminate the need to watch out for no-burn alerts, residents can replace their wood burning fireplace with a gas burning fireplace. These are also a cleaner alternative as they release fewer emissions and save money. Not to sacrifice price for style, however, modern gas fireplaces also come in a variety of styles to suit different tastes and preferences. Gas fireplaces are also easy to use as they can be turned on easily, with no resulting ashes to discard.

Making the switch from a wood burning to gas burning fireplace may seem small, but it can make a large impact when hundreds or thousands of people make the change. Some areas in the region are eligible for incentives to convert from wood to gas fireplaces. To see if your home is eligible, email fireplacevoucher@aqmd.gov or call toll-free 1-855-396-3833.

Metrolink Unveils Clean Air Locomotive

On July 18th, Metrolink unveiled the first state-of-the-art clean air locomotive to join its commuter rail fleet as it begins to replace dirty diesel locomotives with those featuring the cleanest engines available today.

The locomotive's modern engine, compliant with the latest U.S. Environmental Protection Agency Tier 4 emissions standard, is expected to reduce particulate matter and nitrogen oxide emissions by up to 85 percent. In addition, the new engines will have up to 57 percent more horsepower allowing Metrolink to improve capacity and move people more quickly and reliably.

Metrolink became the first commuter rail agency in the country to purchase Tier 4 locomotives in 2013. The long-term Metrolink fleet plan calls for up to 40 new Tier 4 locomotives, expected to cost approximately \$280 million.

Funds for these locomotives were provided through the SCAQMD Carl Moyer Program and the State of California's Transit and Intercity Rail Capital Program (TIRCP). The remaining funds are being provided by contributions from Metrolink member agencies. Since 2013, SCAQMD has approved \$74.85 million in Carl Moyer Program allocations to Metrolink, with an additional \$36 million to be considered in future requests.

The first clean-air locomotives are expected to begin operating throughout the Metrolink system in late 2016, with the remainder entering service in 2017.



Innovators' Roundtable Discusses Future of Clean Technologies

In May, SCAQMD hosted a Medium- and Heavy-Duty Innovators Roundtable. The event was designed as an informal forum where technology providers, regulators and other entities discussed the status of near-zero and zero emission technologies for medium- and heavy-duty uses, identified key barriers, and provided recommendations for potential implementation pathways.

Environmental Defense Fund coordinated with CALSTART, SCAQMD,

the California Energy Commission and the California Air Resources Board (CARB) in shaping the meeting. The forum featured a cross-section of individuals representing technology providers, original equipment manufacturers, fleets, and regulators. SCAQMD Governing Board Member Joe Lyou and CARB Member Dean Florez provided an overview for both agencies.

The key takeaway from the forum was that near-zero and zero emission technologies are available today that concurrently reduce criteria and greenhouse gas

emissions, and policy makers need to send strong regulatory signals by adopting specific standards with implementation dates.

A number of specific concerns were also raised and discussed by the Roundtable participants including how to address the need for emerging technologies to reduce NOx emissions while not stifling economic competition. Another concern was how to make sure that incentives to adopt cleaner technologies are designed to drive these technologies into the market as they become available.

East Africa's Air Quality to Benefit from Know-how of SCAQMD Scientists



The "GEOHealth Hub for Research and Training in Eastern Africa - Ethiopia" is a progressive, tiered training program designed to develop researchers and research teams committed to establishing clean air in Eastern Africa. According to Kiros Berhane, a University of Southern California (USC) professor of biostatistics and co-principal investigator of this newly funded international partnership, this effort "will be the first time scientists continuously record air pollution data to investigate its health effects on children in Ethiopia, Kenya, Rwanda and Uganda."

Conducting this research, which is novel for Eastern Africa, requires the installation of air monitoring stations. Training international scientists and students on the study's methods is part of USC's emphasis on research with a global impact. In the first year of the approved five-year research map, experts at USC, SCAQMD and the University of Wisconsin-Madison trained an inaugural Eastern Africa cohort of lead scientists on how to conduct research, including setting up air quality monitoring stations and collecting respiratory health data.

In particular, SCAQMD scientists trained the team regarding how to place air monitoring stations and the different particulate monitoring technologies that can be used. Among these were ones currently used by the SCAQMD monitoring network such as Beta Attenuation Monitors (BAMs) as well as low-cost sensors that are being tested as part of the SCAQMD AQ-SPEC air monitoring program.

The intent is to monitor air quality in each of the region's capital cities to provide data for health assessments. SCAQMD staff also instructed the investigators about processes for translating findings into policy. Although data collection has not yet commenced, the project aims to produce meaningful results that can lead to more healthful air quality in Eastern Africa.



SAVE THE DATE

South Coast AQMD's Environmental Justice Community Partnership presents the
2016 Environmental Justice for All Conference



Join South Coast AQMD for a day-long conference on environmental justice, air pollution, and public health, to discuss how public agencies and the community can better work together to protect everyone's right to breathe clean, healthful air while having access to economic opportunity. Participants will engage in direct dialogue with stakeholders from impacted communities, academic researchers, health professionals, and government agencies.

The event is free and Spanish translation will be available.

November 16, 2016

8:30 AM – 4:00 PM

Center at Cathedral Plaza

555 W. Temple Street

Los Angeles, CA 90012

Breakfast and lunch will be provided.

To register, visit SCAQMDJusticeForAllConference2016.eventbrite.com

Rule Update

The following proposed amended rules and regulations are tentatively scheduled for hearings at upcoming Governing Board meetings. To verify whether scheduling changes have occurred, visit the SCAQMD website at aqmd.gov/home/library/meeting-agendas-minutes 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 aqmd.gov/home/regulations or obtained from SCAQMD's Public Information Center at (909) 396-2039.

October

307.1 - Alternative Fees for Air Toxics Emissions Inventory

Proposed Amendments to Rule 307.1 will update references and add provisions for reimbursement of certain public meetings. *For more information, contact Susan Nakamura at SNakamura@aqmd.gov or (909) 396-3105*

Rule 1401 – New Source Review for Toxic Air Contaminants

Rule 1402 – Control of Toxic Air Contaminants from Existing Sources
Revisions to Rule 1401 are also proposed to revise procedures for adding and revising toxic air contaminants on the Rule 1401 list. Revisions to Rule 1402 are proposed to add a voluntary risk reduction program for certain AB 2588 core facilities and other amendments to streamline and clarify provisions. *For more information, contact Susan Nakamura at SNakamura@aqmd.gov or (909) 396-3105*

Regulation IX – Standards of Performance for New Stationary Sources

Regulation X – National Emission Standards for Hazardous Air Pollutants
Revisions to Regulations IX and X are periodically made to incorporate by reference new or amended federal performance standards that have been enacted by U.S. EPA for stationary sources. *For more information, contact Carol Gomez at cgomez@aqmd.gov or (909) 396-3264.*

Regulation XX – RECLAIM

At the December 4, 2015 Board meeting, the Board directed staff to further analyze shutdown credits and bring a proposal for the Board's consideration. *For more information, contact Philip Fine at pfine@aqmd.gov or (909) 396-2239.*

For more information, contact Tracy Goss at TGoss@aqmd.gov at (909) 396-3106.

Rule 1325 – Federal PM2.5 New Source Review Program

Amendments may be necessary to address U.S. EPA's Final Ruling to reclassify the Los Angeles South Coast Air Basin (South Coast) from Moderate PM2.5 nonattainment area to Serious PM2.5 nonattainment for the 2006 National Ambient Air Quality Standards. *For more information, contact Tracy Goss at TGoss@aqmd.gov or (909) 396-3106.*

December

**219 - Equipment Not Requiring a Written Permit Pursuant to Regulation II
222- Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II**

Amendments to Rules 219 and 222 may be proposed in tandem to exclude equipment with de minimis emissions from the requirement to obtain written permits by adding additional equipment categories to the streamlined file/ registration program of Rule 222. *For more information, contact Tracy Goss at TGoss@aqmd.gov at (909) 396-3106.*

November

Rule 1302 – Definitions

Proposed Amended Rule 1302 is being added to address specific issues raised by U.S. EPA regarding corrections to major source thresholds and improving rule clarity and consistency.



Dates Set for 2016 Lawn Mower Exchange

Residents living within SCAQMD's four-county jurisdiction are eligible to participate in the 2016 Electric Lawn Mower Exchange Program, with exchanges to be held from September 17 to October 15.

Each year SCAQMD holds a lawn mower exchange to enable residents to turn in an old operable gasoline-powered mower and get a rebate on the purchase of a new, cordless electric lawnmower that produces zero emissions. This year there are seven models to choose from.

The exchanges will take place on the following dates and locations:

- **September 17: Long Beach, Veterans Memorial Stadium**
- **September 24: Van Nuys, Airport Parking Lot**
- **October 1: Ontario, Citizens Business Bank Arena**
- **October 8: Riverside, Bourn's Inc.**
- **October 15: Costa Mesa, Orange County Fair and Event Center**

Quantities are limited. To participate, residents must pre-register online at aqmd.gov/lawnmower or by calling 1-888-425-6247.

CLEAN AIR *People* Laki Tisopulos

Earlier this year, one of SCAQMD's own, Dr. Laki Tisopulos, received a U.S. Department of State invitation to present at the Indo-U.S. Workshop Series on Combating Air Pollution in North India. Laki traveled to four major cities in India to participate in a series of workshops where he shared his knowledge and perspectives on the air quality challenges and successes in Southern California and how those can be applied in India. He was part of a group of select experts from U.S. federal agencies, academia, research organizations, utilities, and private industry that joined with Indian governmental agencies, industries, citizens and environmental advocacy organizations to develop concepts to assist India with its air quality challenges and sustainability strategies.

But if serving as part of an international delegation were not enough, Laki was also honored this year with the Air and Waste Management Association's 2016 S. Smith Griswold Outstanding Air Pollution Control Official Award. Laki was recognized for his distinguished, multi-faceted 28 year career with SCAQMD. The Air and Waste Management Association is a nonprofit, nonpartisan professional organization that enhances knowledge and expertise for more than 5,000 environmental professionals in 65 countries. The award is given in memory of S. Smith Griswold, the first chief air pollution control officer (1954-1965) for the Los Angeles Air Pollution Control District, one of SCAQMD's predecessor agencies.

In 1988, Laki was recruited to SCAQMD while he was completing his PhD in Chemical Engineering at USC. He also has a Master's Degree in chemical engineering from USC and Bachelor's Degree in chemical engineering from Istanbul University. He began at SCAQMD as an Assistant Air Quality Engineer, and has held senior level positions in Rule Development, Transportation, Planning and Technology Advancement.

This June, Laki was promoted to the position of Deputy Executive Officer for Engineering and Permitting. He now oversees 160 staff who permit all of the region's stationary sources. His challenge is to reduce the backlog of permit applications by improving efficiency and modernizing processes.



Laki lives in Claremont with his wife Tara. They have three children, Alexa (who attends UC Berkeley), Kyra and Melina. Their Labrador retriever Brandy is also part of the Tisopulos family. Laki's favorite non-work time is spent playing the guitar, hiking, jogging, watching movies and traveling.

Laki says that "the best part of working at SCAQMD is getting to work on things that will improve air quality for millions of Southern Californians and help make this world a better place than the one I inherited."

SCAQMD Internship Program provides practical experience

This year, out of more than 100 students who applied, 40 students were invited to be summer interns at SCAQMD. The internship gives high school students, and college students in graduate and undergraduate programs, the opportunity to gain insight into SCAQMD's mission and operations, and also, according to Human Resources Analyst Kimberly Naucler, to "apply lessons learned in the classroom, make professional connections, and work in the 'real world' under 'real world' conditions."

The 2016 interns began their program with up to three days of training to get to know more about SCAQMD before being placed in their respective units. The training and the work they were assigned provided interns the opportunity to learn how air pollution directly affects residents and SCAQMD's role in helping improve



air quality. Offsite field trips, such as a tour of the Port of Los Angeles and a bus tour of the East Los Angeles neighborhood of Boyle Heights, an environmental justice community, helped enrich the experience of interns who participated in the program.

"The experience I gained while interning was amazing," said Monica Brown, an intern in the Office of

Legislative and Public Affairs/Media.

She said her internship experience "taught me how to be a team player and work with others who have different perspectives than I have." She added, the experience "also gave me insight as to how a real office runs and showed me that each department is a moving part."



South Coast Air Quality Management District

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Briefly...

Rule Compliance Promotion Classes

Rule 403 – Dust Control in the South Coast Air Basin Training

• Every third Wednesday of the month. This class is held at SCAQMD's Diamond Bar Headquarters from 8:30 a.m. to 11:30 a.m. There is no fee. Pre-registration is required and walk-in registrations are not allowed. Visit aqmd.gov/home/programs/business/training-403-403-1-fugitive-dust (and click on "south coast" near the top of the page) for class and registration information. To register, e-mail dustcontrol@aqmd.gov or call toll-free 1-866-861-3878.

Rule 403 & 403.1 – Dust Control in the Coachella Valley Training

• 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 115, 73-710 Fred Waring Dr., Palm Desert, CA, 92260. There is no fee. Pre-registration is required and walk-in registrations are not allowed. Visit aqmd.gov/home/programs/business/training-403-403-1-fugitive-dust (and click on "coachella valley" near the top of the page) for class and registration information. To register, email dustcontrol@aqmd.gov or call toll-free 1-866-861-3787.

Rule 461 – Gasoline Transfer and Dispensing Training Daily Maintenance Inspection Class

• November 4, 2016
The class fee is \$149.62 per person.
Periodic Compliance Inspection Class
• October 28, 2016

Vapor Recovery System Tester Orientation Class

• November 10, 2016
The class fee is \$155.67 per person. Classes meet at SCAQMD headquarters in Room CC6 from 8:30 a.m. to 5:00 p.m. Check-in time is 8:00 a.m. to 8:30 a.m. Pre-registration is required and walk-in registrations are not allowed. Visit aqmd.gov/home/regulations/compliance/gasoline-dispensing2/rule-461-classes for class and registration information. Contact Michele Martinez at 909-396-3058 or MMartinez1@aqmd.gov for more information.

Rule 1403 – Asbestos Demolition and Renovation Compliance Training

• October 12, 2016
• December 14, 2016
Classes are held from 8:00 a.m. to 1:00 p.m. at SCAQMD's Diamond Bar Headquarters (Room CC6). Registration fee is \$83.39 per person. Pre-registration is required and walk-in registrations are not allowed. Visit aqmd.gov/home/programs/business/training-1403-asbestos-demolition for class

and registration information. Contact Sharon Fujimoto via email at SFujimoto@aqmd.gov or call (909) 396-2183 for additional information and to register.

Rule 2202 - Employee Transportation Coordinator (ETC) Training

• September 8, SCAQMD Headquarters, Diamond Bar
• September 22, Courtyard Marriott, Culver City
• October 6, SCAQMD Headquarters, Diamond Bar
• October 20, UC Irvine University Club
• November 3, SCAQMD Headquarters, Diamond Bar
• November 17, Parsons Brinckerhoff, San Bernardino
• December 8, SCAQMD Headquarters, Diamond Bar
Classes are held from 8:00 a.m. to 5:00 p.m. each day. Registration fee is \$172.97 per person. Enrollment is limited. Pre-registration is required and walk-in registrations are not allowed. Visit aqmd.gov/home/programs/business/training-2202-etc for class and registration information. To register, e-mail etctraining@aqmd.gov or call (909) 396-2777.

SCAQMD ADVISOR

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