

Public Workshop

Potential Measures

May 8, 2017

webcast@valleyair.org

Overview

- District preparing attainment strategy that addresses multiple PM2.5 standards under the federal Clean Air Act
 - 1997 PM2.5 Standard (24-hour 65 $\mu\text{g}/\text{m}^3$ and annual 15 $\mu\text{g}/\text{m}^3$)
 - 2006 PM2.5 Standard (24-hour 35 $\mu\text{g}/\text{m}^3$)
 - 2012 PM2.5 Standard (annual 12 $\mu\text{g}/\text{m}^3$)
- 2006 PM2.5 Standard – Attainment Deadline 2019
- 2012 PM2.5 Standard – Attainment Deadline 2021
- District and ARB agree that integrated ozone/PM2.5 strategy must be pursued to address latest federal standards
 - NOx emission reductions contribute to attainment of both PM2.5 and Ozone
 - Ensure that resources invested to attain PM2.5 standards also advance attainment of new 2015 Ozone Standard
 - Strategy should focus on NOx emission reductions while also leaving no stone unturned for direct PM2.5 emission reductions
- Meeting new standards requires enormous reductions in emissions, particularly from mobile sources that make up 85% of Valley's NOx emissions

Pursue Expeditious Attainment

- District remains committed to leaving no stone unturned to find additional reductions from sources under our jurisdiction
- Work with ARB to ensure that State provides all possible mobile source control strategies that result in additional reductions in emissions
- District will not ask for attainment deadline extension or bump up in classification with delayed attainment unless finding is made by District and ARB that all available and reasonable mobile and stationary control measures are not adequate to achieve attainment by the prescribed deadlines

Robust Public Engagement Process

- District's public process provides multiple opportunities for public and stakeholders to provide comments, ask questions, and request additional information
 - Conduct public workshops
 - Hold multiple Public Advisory Workgroup meetings
 - Provide monthly updates at public meetings of the District Governing Board, Citizens Advisory Committee, and Environmental Justice Advisory Group
- **Public Workshops**
 - December 1, 2016 - ARB workshop
 - December 7, 2016 - District Scoping Public Workshop
 - March 9, 2017 - District Public Workshop
 - May 8, 2017- District Public Workshop
 - May 18, 2017 - District Public Workshop
- **Public Advisory Workgroup Meetings**
 - January 11, 2017 - Air Quality Modeling
 - January 25, 2017 - ARB Mobile Source Measures
 - February 9, 2017 - District measures
 - April 12, 2017 - Update on Air Quality Modeling & Measures



Potential Measures Identified by District Through Public Process

- District has conducted extensive review of emission reduction opportunities
- District has identified potential measures through public process
- Final scope, design and effectiveness of measures subject to comments from Valley businesses and residents through the public participation process

Potential Measures Identified by District Through Public Process (cont'd)

- Replace all almond harvesters in Valley with latest low-emitting harvester technologies
- Install PM control technology on larger under-fired charbroilers installed within last 10-15 years (360 out of 1,800)
- Enhance CMPs for ag operations to reduce directly emitted PM
- Replace 23,628 older high emitting residential wood-burning devices with cleaner devices
- Electrify 1,053 ag pump engines in areas impacting peak PM_{2.5} sites where access to electricity is available
- Lower NO_x limit for container glass plants
- Lower NO_x emissions from various boiler, steam generator, process heaters > 5 MMBtu/hr
- Lower NO_x emissions from various boiler, steam generator, process heaters 2 to 5 MMBtu/hr

Potential Measures Identified by District Through Public Process (cont'd)

- Install ultra-low NOx flare technology and require additional flare minimization practices
- Lower NOx emissions from various non-agricultural engine categories
- Replace 74,912 heavy heavy-duty trucks with upcoming 0.02 g/bhp-hr ultra-low NOx trucks that are 90% cleaner than 2010 trucks recently required by ARB's Truck and Bus Regulation
- Replace 110,000 medium heavy-duty trucks with upcoming 0.02 g/bhp-hr ultra-low NOx trucks that are 90% cleaner than 2010 trucks recently required by ARB's Truck and Bus Regulation
- Replace 102,936 light heavy-duty trucks with upcoming 0.02 g/bhp-hr ultra-low NOx trucks that are 90% cleaner than 2010 trucks recently required by ARB's Truck and Bus Regulation
- Install 2,622 natural gas fueling stations for deployment of 0.02 g/bhp-hr ultra-low NOx heavy duty trucks
- Replace 320,000 passenger vehicles with zero-emission vehicles
- Replace 76 locomotives with new Tier 4 locomotives



HEALTHY AIR LIVING™

Live a Healthy Air Life!

Public Comments

- Are the measures identified by the District effective in reducing air pollution?
- Are the measures identified by the District technology feasible?
- Are the measures identified by the District economically feasible?
- Are there any other feasible measures that the District should consider?

Additional Information

- Up-to-date information available at <http://www.valleyair.org/pmplans/>
- Receive email updates on the development of this plan and future air quality attainment plans at <http://www.valleyair.org/lists/list.htm>
- Email comments to airqualityplans@valleyair.org