

Bay Area 2009 Clean Air Plan  
 Summary of Preliminary Control Measure Evaluations  
 April 2009

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Background

In the course of developing proposed emission control measures for the Bay Area 2009 Clean Air Plan (CAP), Air District staff has performed evaluation of nearly 800 potential control measures compiled from a variety of sources, including ideas submitted by the public, Air District staff suggestions, and a survey of control measures contained in the most recent California air quality plans as well as selected ozone plans from metropolitan areas outside of California. Staff reviewed stationary source, area source, mobile source, and transportation control measures from the following plans:

<i>Air District</i>	<i>Plan</i>	<i>Date</i>
<i>California Air Quality Attainment Plans</i>		
South Coast Air Quality Management District	2007 Air Quality Management Plan	May 2007
Sacramento Metropolitan Air Quality Management District	Sacramento Regional 8-Hour Ozone Attainment And Reasonable Further Progress Plan	Draft January 2009
San Joaquin Valley Unified Air Pollution Control District	2007 Ozone Plan	April 30, 2007
Monterey Bay Unified Air Pollution Control District	2008 Air Quality Management Plan	August 2008
Santa Barbara County Air Pollution Control District	2007 Clean Air Plan	August 2007
San Diego County Air Pollution Control District	Eight-Hour Ozone Attainment Plan For San Diego County	May 2007
Ventura County Air Pollution Control District	Ventura County 2007 Air Quality Management Plan	May 13, 2008
<i>Out of State Air Quality Attainment Plans</i>		
Houston Galveston Area Council	Houston-Galveston-Brazoria regional SIP Draft control measures under review	April 2010
New York City	NYSIP for Ozone (8-Hour NAAQS) Attainment Demonstration for NY Metro Area	August 9, 2007
Detroit	Proposed Maintenance Plan for Southeast Michigan	February 2009
Chicago	Draft Chicago 8-Hour Ozone Attainment Demonstration and Maintenance Plan	December 2008
Atlanta	Proposed Georgia's State Implementation Plan for the Atlanta 8-Hour Ozone Nonattainment Area	March 29, 2009

### Criteria for Evaluation

An initial screening eliminated measures that have already been implemented through Air District, ARB, US EPA, or other regional agency programs. Measures that clearly fall under the jurisdiction of other agencies were eliminated as well. A subsequent screening applied the criteria outlined in California Health & Safety Code Sec. 40922:

- Cost-effectiveness
- Technological feasibility
- Total emission reduction potential
- Rate of reduction
- Public acceptability
- Enforceability

The 2009 Clean Air Plan will serve to update the Air District's ozone plan per the requirements of the California Health & Safety Code. The Plan will also endeavor to reduce emissions of particulate matter (PM) and air toxics in order to protect public health, as well as greenhouse gases (GHGs) that contribute to climate change. Therefore, staff has evaluated potential control measures based upon their potential to reduce:

- Emissions of ozone precursors, PM, and air toxics
- Population exposure to pollutants in one or more of the "impacted communities" identified in the District's CARE program
- Emissions of greenhouse gases

### Outcomes of preliminary review

The tables below summarize the outcomes of District staff evaluation of potential control measures. *Table One: Measures Not Recommended for Further Review* shows measures that staff recommend for no further review because an equivalent measure exists, implementation of the measure was under jurisdiction of another agency, there were no emissions sources in the Bay Area, the measure would result in de minimus emissions reductions, or the measure was not deemed cost-effective.

**Table One: Measures Not Recommended for Further Review**

<i>Category</i>	<i>Category Definition</i>	<i># of Measures</i>
Equivalent Measure Exists	Measures that have already been implemented or addressed through District, State, Federal, or regional agency programs.	341
Measures Under Jurisdiction of Other Agencies	Measures that are under the jurisdiction State, Federal, or regional agencies, which the District has no authority to implement.	56
Measures for which Emissions are Minimal	Measures for which emissions are de minimus or for which no sources exist in the Bay Area	97
Measures that are not Cost-Effective	Not cost-effective	6
<b><i>Total Recommended No Further Review</i></b>		<b>500</b>

*Table Two: Measures Recommended for Incorporation into Preliminary Control Measures* shows measures that passed initial screenings and are recommended for incorporation into preliminary control measures. It also shows the number of measures that are still under evaluation by category.

**Table Two: Measures Recommended for Further Review or Incorporation into Preliminary Control Measures**

<i>Potentially Viable Measures Category</i>	<i>Category Definition</i>	<i>Measures still Under Evaluation</i>	<i>Measures Recommended for Incorporation into Preliminary Control Measures</i>	<i>Preliminary Control Measures</i>
Stationary/Area Sources	Category includes measures that address industrial /commercial processes, stationary combustion, petroleum products processing and distribution, and area sources.	62	68	15 SSMs  10 Further Study Measures
Mobile Source & Transportation Measures	Category includes mobile source and transportation control measures that address on-road and off-road sources.	32	70	4 MSMs and 17 TCMs
Land Use/Local Impacts	Category includes land use measures that seek to reduce VMT and decrease human exposure to TAC.	0	28	7
Energy/Climate	Category includes measures other than mobile and stationary source that reduce GHG emissions and address the impacts of global warming on air quality.	0	12	3
Potentially Viable Other Measures	Category includes measures that fall into none of the categories above.	8	0	0

Measures in the column above entitled *Measures Recommended for Incorporation into Preliminary Control Measures* have been incorporated into the proposed preliminary control measures that will be discussed at the CAP workshops during the week of April 27, 2009. Please note that the actual number of preliminary control measures in right-hand column is fewer; this is due to elimination of duplicate measures and consolidation of narrow measures into broader categories for purposes of defining the preliminary control measures.

Next Steps

Evaluation of potential control measures will continue as the Air District moves forward to define the control strategy for the 2009 CAP. The Air District invites additional suggestions for potential control measures. A table listing all the individual potential control measures reviewed for the 2009 CAP, and the final outcome of each measure, will be posted on the Air District’s 2009 CAP web page no later than the date that the District issues the 2009 CAP draft control strategy (projected for summer 2009).