

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Inter-Office Memorandum

To: Chairperson Haggerty and
Members of the Executive Committee

From: Peter Hess
Deputy Air Pollution Control Officer

Date: October 22, 2003

Re: Status Report on 2003-04 Ozone Planning: Photochemical Modeling

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

This report provides the status of the photochemical modeling underway for the 2003/04 ozone planning process. This modeling effort will benefit from the extensive field data collected during the Central California Ozone Study. The District has contracted with ENVIRON Corporation's Air Sciences Office in Novato, CA to assist with the modeling effort. A Modeling Advisory Committee, convened by the District, is meeting regularly throughout the planning process to review the work of District staff and the consultants.

DISCUSSION

ENVIRON and District staff have been working intensively with meteorological, emissions, and photochemical models to simulate historical high ozone episodes from July 1999 and July/August 2000. ARB also has been working to simulate the July/August 2000 episode. Difficulties with the modeling (incomplete and inaccurate CCOS meteorological and emissions data, and under-representation of ozone levels by the modeling system) have plagued the process. ENVIRON, the District and ARB are working to resolve issues as they arise. Once the model performance for the historical episodes is satisfactory, the models will be used to assess the need for additional ozone precursor emission reductions and to assess transport to downwind regions.

The delays in achieving satisfactory model performance are affecting the Bay Area planning effort as well as the Sacramento Metropolitan Air Quality Management District and the San Joaquin Valley Air Pollution Control District planning efforts. The Sacramento and San Joaquin districts have indicated that the modeling delays will slow the development of their ozone attainment strategies. The Bay Area will also need to adjust our planning schedule to allow time for ENVIRON, District staff, ARB and the Modeling Advisory Committee to resolve the issues. Our planning process must be based on a sound technical foundation.

Staff will keep the Executive Committee informed of the status of the modeling effort.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Peter Hess
Deputy Air Pollution Control Officer

Prepared by: Jean Roggenkamp

FORWARDED: _____

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Inter-Office Memorandum

To: Chairperson Haggerty and
Members of the Executive Committee

From: Peter Hess
Deputy Air Pollution Control Officer

Date: October 22, 2003

Re: Status Report on 2003-04 Ozone Planning: Public Involvement

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

This report provides the status of the public involvement process for the 2003/04 ozone planning process. Public involvement for this round of ozone planning includes multiple forums for participation by stakeholders and the public. The Modeling Advisory Committee and the Ozone Working Group are meeting regularly throughout the planning process. Staff have also held community scoping meetings and community training meetings regarding the ozone planning process. Information about the planning process is available on the District's website. We will also be holding community workshops and a public hearing during future stages of the planning process.

DISCUSSION

The Modeling Advisory Committee (MAC) reviews the work of the modeling consultants and District staff on a regular basis. The MAC includes representatives from BAAQMD, MTC, EPA, ARB, downwind air districts, industry, environmental groups, community groups, and transportation groups. The MAC has met 13 times to date.

The Ozone Working Group meets with staff of the BAAQMD, MTC, and ABAG throughout the planning process. All interested parties are encouraged to participate. Meeting notices are sent to an extensive list of city and county staff, elected officials, business/industrial groups, environmental and transportation organizations, social equity groups, state and national agencies, members of the public, and others. The agendas, meeting notes, handouts, and other notices are posted on the Air District website at <http://www.baaqmd.gov/pln/Plans/ozone/2003/workgroup/ozoneworkgrp.asp>.

To date, the Ozone Working Group has discussed the overall planning requirements and process, the public involvement process, suggestions for control measures, control measure evaluation criteria, and the ozone modeling process. The October 28, 2003 meeting will include a presentation and discussion regarding MTC's *Transportation 2030 Plan* and transportation-land use initiatives as well as further discussion regarding potential control measures.

AGENDA NO 8b

Six community scoping meetings were held in September 2003. These meetings provided an opportunity for residents to meet with staff of the Air District, MTC, and ABAG to discuss the ozone planning process and provide suggestions for control measures. The scoping meetings were specifically requested by the Environmental Justice Air Quality Coalition. The meetings were held in Rodeo, Richmond, West Oakland, East San Jose, South East San Francisco, and East Palo Alto from 6:30 – 8:30 p.m. Representatives of the county health departments participated in the meetings in Richmond, Rodeo, East Palo Alto and San Francisco. Approximately 125 residents attended the community scoping meetings.

Participants at the community meetings suggested 50 control measure ideas. Stationary source measure ideas focused primarily on reducing refinery emissions. Mobile source measure ideas focused primarily on promoting alternative fuel vehicles and reducing diesel emissions. Transportation control measure ideas focused mainly on improving transit service and reducing transit fares. Staff will evaluate each suggested measure.

Other key issues raised at several of the community meetings included:

- Concerns about local health impacts of air pollution, particularly asthma
- Criteria for evaluating control measure suggestions
- Schedule for district rule development for refinery controls
- Schedule for ozone plan
- Health effects of diesel exhaust
- Charging for parking and higher bridge tolls
- Roles of the various agencies, e.g. EPA, ARB, BAAQMD, MTC
- Refinery flare emissions and flare controls
- Indoor air quality
- Cumulative impacts of air pollution in communities of color
- Reducing diesel truck emissions and impacts on neighborhoods
- Lack of health care data and services in communities near refineries, ports
- Access to information about air quality monitoring
- Need for more training and information about the District and its programs
- Freeways as air pollution hot-spots
- More focus on reducing particulate matter emissions

Staff recorded the comments made at each community meeting. We are currently preparing responses and will post the comments and staff responses on the District website and send a copy to the participants at the community meetings.

At the request of local groups, staff also conducted two community training sessions regarding ozone and ozone planning. These training sessions were held in Richmond and San Jose prior to the community scoping meetings in those locations. The training sessions were designed to help residents learn background information about ozone and the planning process to prepare for participation in the community scoping meetings.

Staff will hold additional community meetings when draft ozone strategies are available for public review.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Peter Hess
Deputy Air Pollution Control Officer

Prepared by: Jean Roggenkamp

FORWARDED: _____

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Inter-Office Memorandum

To: Chairperson Haggerty and
Members of the Executive Committee

From: Peter Hess
Deputy Air Pollution Control Officer

Date: October 22, 2003

Re: Status Report on 2003-04 Ozone Planning: Control Measure Evaluation

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

This report provides the status of the control measure evaluation process for the 2003/04 ozone planning process.

DISCUSSION

District staff continue to evaluate the wide range of control measure ideas for stationary and mobile sources. MTC staff are evaluating the transportation control measure ideas (approximately 120). Approximately 350 stationary and mobile source measures have been compiled from the following sources:

- Ozone Working Group
- Community meetings
- Other air districts's regulations, control measures and suggestions
- District Board members and Advisory Council
- Members of the public
- Previous Bay Area air quality plans
- District staff

The evaluation criteria are based on state and federal clean air laws, regulations, and guidance. These criteria include:

- Technological feasibility
- Total likely emission reductions
- Real, quantifiable, permanent, enforceable, and surplus
- Cost-effectiveness
- Rate (and timing) of emission reduction
- Potential adverse environmental impacts
- Socioeconomic impacts
- Public acceptability, including interests and concerns of community members

AGENDA NO 8c

To date, staff have conducted a preliminary review of over half of the measures. The breakdown of the control measure evaluation process is as follows:

	<u># of measures</u>
Already implemented	18
Potentially viable measures	12
Further study needed	7
State or Federal Jurisdiction	67
Need funding	28
Need legislative authority	3
Negligible emission reductions	37
Not technically feasible	8
Not cost-effective	8
Under evaluation	162
TOTAL	350

Staff expect to complete a preliminary evaluation of all control measure ideas by the end of December 2003.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Peter Hess
Deputy Air Pollution Control Officer

Prepared by: Jean Roggenkamp

FORWARDED: _____