



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

**ADVISORY COUNCIL  
RETREAT  
AND  
MEETING OF THE PUBLIC HEALTH COMMITTEE  
MEETING OF THE AIR QUALITY PLANNING COMMITTEE  
MEETING OF THE TECHNICAL COMMITTEE**

**WEDNESDAY  
JANUARY 10, 2007  
9:30 A.M.**

**SEVENTH FLOOR BOARD ROOM  
939 ELLIS STREET  
SAN FRANCISCO, CA. 94109**

**AGENDA**

**CALL TO ORDER**

Opening Comments  
Roll Call

Fred Glueck, Chairperson  
Clerk

**COMMENDATION/PROCLAMATION**

Recognition of Outgoing Chairperson Kurucz

Fred Glueck, Chairperson

**PUBLIC COMMENT PERIOD**

*Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. The public has the opportunity to speak on any agenda item. All agendas for Advisory Council meetings and Committee meetings are posted at the District, 939 Ellis Street, San Francisco, at least 72 hours before a meeting. At the beginning of the meeting, an opportunity is also provided for the public to speak on any subject within the Council's or Committee's purview. Speakers are limited to five minutes each.*

**CONSENT CALENDAR (ITEM 1)**

1. Approval of Minutes of November 8, 2006

**COMMITTEE REPORTS**

2. Public Health Committee Meeting of December 12, 2006
3. Air Quality Planning Committee Meeting of December 14, 2006
4. Technical Committee Meeting of August 9, 2006

Jeffrey Bramlett  
[Jeffrey.Bramlett@SFGOV.org](mailto:Jeffrey.Bramlett@SFGOV.org)

Ken Blonski  
[kblonski@ebparks.org](mailto:kblonski@ebparks.org)

Sam Altshuler  
[altshule@pacbell.net](mailto:altshule@pacbell.net)

## **RETREAT FORMAT**

5. Round Table Discussion with Air District Management on Key Issues Facing the District and Proposed Assignments to the Council  
Jack P. Broadbent  
[jbroadbent@baaqmd.org](mailto:jbroadbent@baaqmd.org)

6. Convene to Working Lunch for Meetings and Discussion Sessions of the Public Health Committee, Air Quality Planning Committee and Technical Committee

*The Council will participate in a working lunch/Standing Committee format in which each Committee will separately meet to discuss and give priority to the study topics discussed by the Executive Committee, District staff and the Council members. The Committees will also establish a meeting schedule for the year.*

7. Reconvene to Full Council Format for Follow-up on Committee Discussion Sessions

*The Advisory Council will reconvene to receive the reports of the Standing Committees on their study topic priorities and meeting schedule, and to conduct any further round table discussion concerning them.*

## **OTHER BUSINESS**

8. Council Member Comments/Other Business

*Council or staff members on their own initiative, or in response to questions posed by the public, may: ask a question for clarification, make a brief announcement or report on their own activities, provide a reference to staff about factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda.*

9. Time and Place of Next Meeting

*10:00 a.m., Wednesday, March 7, 2007, 939 Ellis Street, San Francisco, California 94109.*

10. Adjournment

FG:ct

**CONTACT CAMILLE TAVLIAN - 939 ELLIS STREET SF, CA 94109**

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**FAX: (415) 928-8560**  
**BAAQMD homepage:**  
[www.baaqmd.gov](http://www.baaqmd.gov)

- To submit written comments on an agenda item in advance of the meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- To request special accommodations for those persons with disabilities notification to the Executive Office should be given in a timely manner, so that arrangements can be made accordingly.

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**  
**939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109**  
**(415) 771-6000**

**EXECUTIVE OFFICE:**  
**MONTHLY CALENDAR OF DISTRICT MEETINGS**

**JANUARY 2007**

<b><u>TYPE OF MEETING</u></b>	<b><u>DAY</u></b>	<b><u>DATE</u></b>	<b><u>TIME</u></b>	<b><u>ROOM</u></b>
<b>Board of Directors Regular Meeting</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	3	9:45 a.m.	Board Room
<b>Board of Directors Mobile Source Committee</b> <i>(Meets 2<sup>nd</sup> Monday of each Month)</i>	Monday	8	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Advisory Council Executive Committee - CANCELLED</b>	Wednesday	10	9:00 a.m.	Room 716
<b>Advisory Council Retreat and Regular Meeting</b>	Wednesday	10	9:30 a.m.	Board Room
<b>Board of Directors Personnel Committee Meeting</b> <i>(Meets at the Call of the Chair)</i>	Friday	12	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Regular Meeting &amp; Retreat</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	17	9:45 a.m.	Claremont Resort & Spa Lanai 2 41 Tunnel Road Berkeley, CA 94705
<b>Board of Directors Climate Protection Committee</b> <i>(Meets at the Call of the Chair)</i>	Thursday	18	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Joint Policy Committee</b>	Friday	19	10:00 a.m. – Noon	MetroCenter 101 – 8 <sup>th</sup> Street Oakland, CA 94604
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets 4<sup>th</sup> Wednesday of each Month)</i>	Wednesday	24	9:45 a.m.	4 <sup>th</sup> Floor Conf. Room

**FEBRUARY 2007**

<b><u>TYPE OF MEETING</u></b>	<b><u>DAY</u></b>	<b><u>DATE</u></b>	<b><u>TIME</u></b>	<b><u>ROOM</u></b>
<b>Board of Directors Mobile Source Committee</b> <i>(Meets 2<sup>nd</sup> Monday of each Month)</i>	Monday	5	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Regular Meeting</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	7	9:45 a.m.	Board Room
<b>Board of Directors Regular Meeting</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Board Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets 4<sup>th</sup> Wednesday of each Month)</i>	Wednesday	28	9:45 a.m.	4 <sup>th</sup> Floor Conf. Room

## MARCH 2007

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
<b>Board of Directors Regular Meeting</b> ( <i>Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month</i> )	Wednesday	7	9:45 a.m.	Board Room
<b>Advisory Council Executive Committee</b>	Wednesday	14	9:00 a.m.	Room 716
<b>Advisory Council Regular Meeting</b>	Wednesday	14	10:00 a.m.	Board Room
<b>Board of Directors Regular Meeting</b> ( <i>Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month</i> )	Wednesday	21	9:45 a.m.	Board Room
<b>Board of Directors Budget &amp; Finance Committee</b> ( <i>Meets 4<sup>th</sup> Wednesday of each Month</i> )	Wednesday	28	9:45 a.m.	4 <sup>th</sup> Floor Conf. Room

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Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109

DRAFT MINUTES

Advisory Council Regular Meeting  
10:00 a.m., Wednesday, November 8, 2006

**CALL TO ORDER**

Opening Comments: Chairperson Kurucz called the meeting to order at 10:00 a.m.

Roll Call: Present: Kraig Kurucz, Chair, Cassandra Adams, Sam Altshuler, P.E., Louise Bedsworth, Ph.D., Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, Harold Brazil (10:20 a.m.), Irvin Dawid, Fred Glueck, William Hanna, Stan Hayes, John Holtzclaw, Ph.D., Janice Kim, M.D.,(10:10 A.M.), Steven Kmucha, M.D., Karen Licavoli-Farnkopf, MPA, Ed Proctor, Linda Weiner, Brian Zamora

Absent: Emily Drennen

**PUBLIC COMMENT PERIOD:** There were none.

Council Member Kim arrived at 10:10 a.m.

**PROCLAMATION/COMMENDATION**

*The Advisory Council presented a Resolution to Stan R. Hayes for his outstanding service on the Council and his dedicated service to the cause of air pollution control.*

Chairperson Kurucz recognized Mr. Hayes for being an excellent role model for Council members and thanked him for his service. Mr. Hayes thanked the Advisory Council for its support and expressed his gratitude for having been part of the Council for 12 years. He applauded the Council for its dedication to the District and to the goal of achieving clean air.

Council Member Brazil arrived at 10:20 a.m.

**CONSENT CALENDAR:**

**1. Approval of Minutes of September 13, 2006.** Mr. Altshuler requested that on Page No. 8, bulleted item No. 2, “Astrow” be changed to “Ostro”; and under Item No. 10, “Adjournment”, time of adjournment should be changed from 12:31 a.m., to 12:38 p.m. Mr. Dawid requested that on Page No. 7, Item No. 8, under the first bulleted item, the word “Air” should be added before the word “District,” and add the words “Environment and” before the word “Economic.” Dr. Holtzclaw moved approval of the minutes, as corrected; seconded by Mr. Glueck; carried unanimously.

## **AIR DISTRICT OVERVIEW**

**2. Report of the Executive Officer/APCO.** On behalf of Mr. Broadbent, Jean Roggenkamp, Deputy Air Pollution Control Officer, reported as follows:

(a) The upcoming Summit is scheduled for Friday, November 10, 2006, at the Yerba Buena Center for the Arts, San Francisco. Registration begins at 8:30 a.m. Approximately 500 people are expected to attend. Vice President Al Gore will be the keynote speaker. The District's Board of Directors' Chair and Executive Officer will also be providing comments. There will be a "Solutions" spotlight to be introduced by Mayor Gavin Newsom, and individuals from around the region will be providing information about their organizations' efforts to implement Climate Protection.

Locally elected officials, representatives from businesses throughout the region, non-governmental organizations, youths and foundations, as well as representatives from the Governor's administration will be in attendance. The Air District has specifically tried to attract a diverse group of people and organizations within the Bay Area to attend the Summit.

In response to Mr. Blonski's inquiry regarding follow-up actions to the Summit, Ms. Roggenkamp explained that one of the key components of the Summit is a session that will involve networking groups representing local government, business, transportation, non-governmental organizations, etc. Each group will have a facilitator who will lead discussions on what is currently being done, what can be done in the future, as well as defining next steps to be taken. The Summit will lead to future actions across the region. The District has its own initiatives that have been approved by the Board of Directors and staff will continue to work on these items.

(b) The Spare the Air Tonight is the Air District's winter time Spare the Air (STA) program, focused on reducing Particulate Matter (PM) because in the winter time there are higher PM levels during the night. The program will start on November 20, 2006 through mid-February, 2007. There will be radio and TV coverage throughout the duration of the program. The focus is on reducing wood burning, reduced driving, etc. It is important to note that there will not be a free transit component of the winter time program; and that the United States Environmental Protection Agency has lowered the PM<sub>2.5</sub> standard from 65 micrograms/cubic meter to 35 micrograms/cubic meter. The trigger level for calling the STA Tonight will be associated with this new standard. Therefore, it is very likely that there will be a number of STA Tonight call-outs. This will be a drastic change from previous years. The Advisory Council members can be of help by helping the public to understand that it does not necessarily mean that air quality in the winter time has become worse. It is related to the new standard and it is important to alert the public to do whatever they can to reduce pollutants on those evenings when the levels are expected to be high.

In response to Dr. Bedsworth's comments and concerns on ozone violations during this summer in the Bay Area, Ms. Roggenkamp explained that there were several days of exceedance. And, even though the trend is still downward, there is still a lot of work to be done in this area. As of now, through the last three years (2004, 2005 and 2006 summers),

the District has still been in attainment of the Federal standard. However, it is unpredictable with regard to the attainment status for the future.

Dr. Holtzclaw noted that on the STA messages, the PM from wood smoke tends to be a little more concentrated in suburban valleys. Dr. Holtzclaw inquired if the District's announcements will target these specific areas or make them general. Ms. Roggenkamp stated that it can be concentrated in certain areas on particular nights, depending on meteorological conditions, but for right now the messages are region-wide. The District will be looking at this issue with regard to wood smoke for the future. Mr. Altshuler stated that there are problems in the inland valleys (e.g., Napa, San Joaquin, Santa Clara, etc.); and it is more severe in those areas when there is an inversion and stagnation. He recommended targeting those specific areas uniquely, rather than the entire Bay Area, for more effective results. Dr. Bornstein stated that modeling could help target areas that are susceptible during those meteorological conditions. Staff noted the comments.

Ms. Weiner stated that AB 32 focused primarily on Kyoto pollutants; however, a number of different organizations are also trying to include contributory pollutants for AB 32's targets to reduce emissions. It is possible that, at some point, there may be a small percentage of ozone or PM that will be included in the implementation plans.

Mr. Dawid stated that, with reference to ozone, the region is split into five areas, and he inquired if particulates are treated in the same manner. Kelly Wee, Director of Compliance & Enforcement, explained that the same five areas within the region are used for forecasting the air quality index. At the present time, staff is reviewing PM<sub>2.5</sub> future curtailment programs to determine whether they should be region-wide or county-based. Some of the preliminary science indicates that PM<sub>2.5</sub> tends to be airborne for longer periods and can spread to areas other than those in which they are concentrated. The District is looking at a more regional approach to PM<sub>2.5</sub>, and staff is continuing the scientific studies, analysis and possibly future modeling to try and identify whether some of these "hot" spots exist. Mr. Dawid commented that he was very impressed with San Joaquin Valley Air District's approach, using the county-based approach.

## **COMMITTEE REPORTS**

- 3. Public Health Committee Meeting of October 10, 2006.** Mr. Bramlett stated that the Committee discussed the draft recommendations regarding Wood Burning Control Strategies, and recommended that it be presented to the full Advisory Council for adoption. The recommendations will be presented to the full Council today for its adoption.

Mr. Bramlett reported that the Committee is also working on the issue of Indoor Air Quality and Asthma. Dr Kmucha had drafted a letter which was mailed to the city and county health officers in order to respond to a request from District staff that this matter be addressed by the Committee as a priority item. As of this date, no responses have been received to the letter. There is no further information to be reported at this time.

The next Committee meeting is scheduled for Tuesday, December 12, 2006, at 10 a.m.

- 4. Air Quality Planning Committee Meeting of October 11, 2006.** Mr. Hayes stated that, at the last Committee meeting, the Committee discussed the implementation of the resolution

that the Advisory Council adopted at its last meeting, to become carbon neutral and to go beyond in an attempt to achieve the reductions, as adopted in AB 32. The first step the Committee took was to construct a Carbon Footprint Analysis of the Committee and, thereafter, of the full Council. Mr. Hayes distributed a template of the Carbon Footprint Analysis for the Year 2006: BAAQMD Advisory Council, which the Air Quality Planning Committee developed. Mr. Hayes pointed out that there are some placeholder entries on the Carbon Footprint Analysis for the present time. These will be replaced by accurate data from the individual Council members once received. Mr. Hayes requested that each member review the Carbon Footprint Analysis and, if any data is incorrect, submit the accurate data to him so that the correct figures could be incorporated for completion. Mr. Hayes also pointed out that the largest amount of the Council's carbon footprint is attributable to air travel needed to attend the Air & Waste Management Association's annual conference. The Committee is currently addressing the question as to how the footprint could be offset.

Mr. Hayes stated that the Committee felt it could identify an organization which would bundle contributions of money from organizations, such as the District, for the purpose of funding projects to reduce carbon emissions. The Committee will investigate this issue further. However, Mr. Hayes suggested that the Advisory Council review the Committee's future recommendations closely on this matter to ensure that the Council is convinced that the Committee is moving in the right direction proactively, and that it is accomplishing the goals of the resolution. Mr. Hayes explained details of the data required from Council members to complete the Carbon Footprint Analysis. Council members were requested to send their respective data, via email, to Mr. Hayes.

Mr. Hayes stated that the Committee heard a presentation at its last meeting on AB 32, its requirements and implementation schedule. The Committee discussed the possible implications of AB 32's passage for the Air District's Climate Protection Program and future Committee and full Advisory Council actions. Mr. Hayes distributed copies of the PowerPoint presentation to all Council members.

Mr. Hayes informed the Council that the next meeting of the Committee is scheduled for Wednesday, December 13, 2006. However, since some members had a conflict with this date, he requested staff to change the meeting to Thursday, December 14, 2006, starting at 9:30 a.m.

Chairperson Kurucz requested that Dr. Bornstein report briefly on the Technical Committee's plans, even though this item was not on the agenda. Dr. Bornstein stated that the Committee had arranged for a speaker from the South Coast AQMD to make a presentation to the Committee and spend a day meeting with District staff. At the last minute, the speaker was unable to come and it was too late to obtain another speaker. Dr. Bornstein is attempting to reschedule the speaker for the Committee's next meeting (subject to the speaker's availability), probably during the second part of January, 2007.

- 5. Executive Committee Meeting of November 8, 2006.** Chairperson Kurucz stated that the Standing Committee Chairpersons reported on their respective Committee's work plans and noted that the Committee met and unanimously adopted the following slate of Officers for the Advisory Council Officers in 2007: Fred Glueck – Chairperson; Louise Bedsworth, Ph.D. – Vice-Chairperson; Harold Brazil - Secretary. In addition, the following Chairpersons



were selected for 2007: Technical Committee Chairperson: Sam Altshuler, P.E.; Public Health Committee: Jeffrey Bramlett; and Air Quality Planning Committee: Ken Blonski.

Chairperson Kurucz stated that an email will be sent to Advisory Council members in mid-December 2006, requesting their choices for Committee assignments during 2007.

**Speaker:** The following individual spoke on Agenda Item No. 6:

Jenny Bard  
American Lung Association of California  
Santa Rosa, CA 95404

## **COMMITTEE RECOMMENDATION**

- 6. The Public Health Committee Presented its Recommendations on Wood Burning Control Strategies.** *The Advisory Council considered the Public Health Committee's recommendation on Wood Burning control Strategies.*

Mr. Bramlett presented the following draft recommendations to the full Advisory Council for its consideration:

### **Topic**

Recommendations that the Bay Area Air Quality Management District (District) can make to expand the wood smoke emissions reduction program in an effort to address wood smoke emissions in Bay Area communities and reduce particulate matter concentrations.

### **Importance/Implications**

Particle pollution is the most lethal of air pollutants. It can lodge deep in the lungs and trigger asthma attacks, increase hospital admissions and cause people to die early. More than 2,000 peer-reviewed studies link particle pollution to lung disease. These studies show that tens of thousands of Americans are dying before their time because of exposure to particle pollution. Both short-term and long-term exposure is harmful.

The United States Environmental Protection Agency (EPA) has proposed new fine Particulate Matter (PM) standards to better address particle pollution be effective December 2006. Continuing studies show that fine particles adversely impact public health. Research indicates that wood smoke is a significant contributor to PM levels. The District estimates wood smoke may contribute up to 23% of the District's PM inventory, and it is unlikely that the San Francisco Bay Area will meet the new standard for PM<sub>2.5</sub>.

### **Recommendations**

The District should continue current efforts and immediately develop and implement a program to further reduce wood smoke emissions. This program should be a multi-pronged effort and be phased in over the next few years. Characteristic goals of this program should include:

- 1) Support of the existing Wood Smoke Program through completion of the following elements.
  - a) Continue promotion of the Model Wood Smoke Ordinance.
  - b) Continue studying wood smoke emissions related to PM levels.
  - c) Continue monitoring of localized and community PM levels.
  - d) Continue the use of public outreach techniques that use languages representative of our diverse community.
  - e) Expand the existing public outreach to increase awareness of wood smoke impacts on PM levels and the harmful effects of elevated PM.
  - f) Expand the existing use of incentives to accelerate elimination of conventional wood burning devices. Develop partnerships with Pacific Gas and Electric and the Hearth, Patio, & Barbecue Association for change-outs of older conventional wood burning devices with lower-emitting models.
  - g) Develop and include, as a part of the existing public outreach, a list of fuels that should not be burned in residences. This list should include garbage, plastics, and construction debris and scrap materials that may contain or be covered with hazardous materials. Consider adding to the list of prohibited fuels wood products having moisture content greater than 20%.
  - h) Consider a wood stove crushing program.
- 2) Adopt Two-Stage Wood Smoke Curtailment program to follow the District's existing voluntary curtailment "Spare the Air Tonight" program and include a mandatory curtailment program as the second-stage.
  - a) Reduce the current threshold for Spare the Air Tonight events so that more events are called per season.
  - b) Consider setting the mandatory curtailment threshold at 25 micrograms per cubic meter for PM<sub>2.5</sub>.
  - c) Create a rule to define and prohibit improper emissions from wood burning to provide enforcement officers a tool to prevent individuals creating emissions at the expense of public health.
  - d) Enact an opacity element applicable to residential wood burning emission to aid mandatory curtailment enforcement options.
- 3) Keep the Advisory Council informed as the wood smoke program reaches significant milestones in its development and implementation.

### **Key Issues**

PM is one of the six criteria pollutants for which national and state standards have been established. It is already regulated from stationary sources through emission limits and from mobile sources through lower-emission vehicles, incentive buy-back programs, transportation control measures and smart growth policies. In addition to PM, carbon monoxide and carbon dioxide, wood smoke emissions contain toxic air contaminants.

Control measures that are effective and reduce wood smoke have already been adopted by other state and regional air quality agencies, such as the Puget Sound Clean Air Agency. The District can benefit from their experience with programs, such as burning curtailment, regulatory standards on opacity and enforcement, increased public outreach, and incentives and grants implementation.

### **Information Considered**

Members considered reports to the Committee from:

Jack Colbourn, Director, Outreach and Incentives Division, BAAQMD

Janet Glasgow, Air Quality Program Manager, Compliance and Enforcement Division,  
BAAQMD

Jami Aggers, Compliance Manager, Compliance Division, San Joaquin Valley Unified Air  
Pollution Control District

Jim Nolan, Director of Compliance, Puget Sound Clean Air Agency

Kathy Hayes, Government Affairs Director, North Bay Association of Realtors

John Crouch, Director of Affairs, Hearth, Patio and Barbecue Association (HPBA)

Judy Goldblatt, Public Information Officer, Outreach and Incentives Division, BAAQMD

Jenny Bard, Communications Director, American Lung Association of California

### **Deliberative Process**

The Public Health Committee was asked to consider this topic by the Council as part of its work starting in 2006. The Committee met on February 14, April 11, May 10, July 18 and September 6, 2006, to receive and discuss presentations on the issues. The Committee unanimously arrived at its recommendation for forwarding to and consideration by the full Advisory Council. A chronology of the Committee's deliberations, and the presentations received on this matter, is available upon request.

Mr. Bramlett stated that he would like changes made to the above recommendations as follows:

- a) Change No. 2, Item (c) to read: “Consider a process that defines improper emissions from wood burning and provides a tool for District staff to address emissions harmful to the public’s health.”
- b) In No. 2, add the word “a” after the word “Adopt.”
- c) In No. 2, Item (d), delete the words “enforcement options”, and replace them with “efforts by the District staff.”

A motion was made by Ms. Adams to adopt the recommendations, with the altered language, as presented by Mr. Bramlett; seconded by Dr. Holtzclaw. A lengthy discussion followed. It was decided to discuss each of the three proposed changes made by Mr. Bramlett. Several Advisory Council members commented on the proposed changes.

The following changes to the proposed recommendations and the altered language were agreed upon:

- a) In the second paragraph, under “Importance/Implications,” the first sentence should read “Particle pollution is a lethal air pollutant.”
- b) Wherever “PM” is mentioned, it should be indicated as “PM<sub>2.5</sub>.”
- c) Under “Recommendations”, Item No. 2, add the word “a” after “Adopt,” and at the end of the sentence after the words “second-stage,” add “and consider the following.”
- d) In No. 2, Item (b), delete the words “Consider setting”; start the sentence with “Set the mandatory.....” Add “(24-hour average) after PM<sub>2.5</sub>.”

- e) In No. 2, Item (d), delete the word “mandatory” before “curtailment enforcement options.”

Advisory Council members suggested the following supplemental changes to Mr. Bramlett’s revised proposed recommendations:

- a) Under “Importance/Implications”, second paragraph to read “The United States Environmental Protection Agency (EPA) has proposed lower new fine Particulate Matter.....” (Sam Altshuler)
- b) Under “Importance/Implications”, Paragraph No. 1, third sentence, add the words “and cardiovascular” before the word “disease” (Sam Altshuler).
- c) Under “Importance/Implications”, in the last sentence, change “23%” to read “30% to 40% of peak winter PM<sub>2.5</sub> levels;” delete the words “of the District’s PM inventory” (Sam Altshuler).

A motion was made by Ms. Licavoli-Farnkropf to adopt the revised recommendations, as presented by Mr. Bramlett earlier, along with the above supplemental changes; seconded by Dr. Holtzclaw. A further lengthy discussion ensued on the changes that were proposed.

It was agreed to discuss additional, further changes proposed by the Advisory Council members, and to make a motion on each of the proposed further changes. The following motions were made:

- i) A motion was made by Mr. Altshuler to (1) remove the words “and carbon dioxide” under “Key Issues,” last sentence. The revised sentence would read as “In addition to PM<sub>2.5</sub> and carbon monoxide, wood smoke emissions contain toxic air contaminants;” (2) Under “Importance/Implications,” second paragraph, the first sentence to read “The United States Environmental Protection Agency (EPA) has adopted more stringent Particulate Matter (PM<sub>2.5</sub>) standards.....;” and (3) Under “Importance/Implications,” last sentence to read “The District estimates wood smoke may contribute up to 30% to 40% of peak winter PM<sub>2.5</sub> levels and it is unlikely that the San Francisco Bay Area will meet the new standard for PM<sub>2.5</sub>,” seconded by Mr. Hanna; unanimously carried.
- ii) A motion was made by Mr. Hanna to add the words, “or conversion” after the words “accelerate elimination” under “Recommendations,” No. 1, Item (f); seconded by Ms. Weiner; unanimously carried.
- iii) A motion was made by Mr. Dawid to change Recommendation No. 2 to read as “Adopt a Two-Stage Wood Smoke Curtailment program to follow the District’s existing voluntary curtailment “Spare the Air Tonight” program, e.g. declaration of “no-burn” days, as the second stage;” seconded by Dr. Holtzclaw. The motion failed.

**Advisory Council’s Final Action:** A motion was made by Dr. Holtzclaw that the Advisory Council accepts and adopts the revised recommendations, along with the changes agreed to, and the motions that were unanimously carried, on the Wood Burning Control Strategies; seconded by Ms. Weiner; unanimously carried.

The attached revised recommendations, as amended by the Advisory Council at today's meeting, will be forwarded to District staff for presenting them to the Board of Directors' Executive Committee for its consideration.

### **OTHER BUSINESS**

**7. Report of the Advisory Council Chair.** Chairperson Kurucz reported that he had presented his report under Agenda Item No. 5.

**8. Council Member Comments/Other Business.**

- Mr. Altshuler stated that, as a result of his attendance at the Air & Waste Management Association's (AWMA) Annual Conference in June, 2006, he submitted comments to the Critical Review Committee that were, thereafter, published in AWMA's October, 2006 Journal under Particulate Matter. Mr. Altshuler suggested that if any of the Advisory Council members publish any articles as a result of their activity, it should be noted for the betterment of the Advisory Council and for the Board of Directors' review. Chairperson Kurucz stated that a number of Council members attended the AWMA's Annual Conference and had either presented papers or participated on panel discussions.
- Mr. Dawid noted that the World Meeting on Climate Change is being held in Nairobi, when the Kyoto Plan will be reviewed.
- Mr. Dawid noted that the Supreme Court discussion on Indirect Source Review had ended, and based on the Justice's comments, it does not appear to be very promising.
- Mr. Dawid suggested that either the Technical Committee or the Planning Committee should be aware of the onslaught of diesel. Even though California presently has only ultra low sulfur diesel, it is expected that diesel cars are going to outnumber hybrid vehicles in the future. Chairperson Kurucz stated that this would be a good topic to address at the Council's January 2007 Retreat. One of the Committees could find out more details on the issue.

**9. Time and Place of Next Meeting.** 10:00 a.m., Wednesday, January 10, 2007, 939 Ellis Street, San Francisco, CA 94109.

**10. Adjournment.** The meeting was adjourned at 12:05 p.m.

Neel Advani  
Deputy Clerk of the Boards

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California

November 8, 2006

**To: Chair Uilkema and Members of the Executive Committee**

**From: Kraig Kurucz, Chairperson, Advisory Council**

**Subject: Wood Burning Control Strategies**

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### **Topic**

Recommendations that the Bay Area Air Quality Management District (District) can make to expand the wood smoke emissions reduction program in an effort to address wood smoke emissions in Bay Area communities and reduce particulate matter concentrations (PM<sub>2.5</sub>).

### **Importance/Implications**

Particle pollution is a lethal air pollutant. It can lodge deep in the lungs and trigger asthma attacks, increase hospital admissions and cause people to die early. More than 2,000 peer-review studies link particle pollution to lung and cardiovascular disease. These studies show that tens of thousands of Americans are dying before their time because of exposure to particle pollution. Both short-term and long-term exposure is harmful.

The United States Environmental Protection Agency (EPA) has adopted more stringent fine Particulate Matter (PM<sub>2.5</sub>) standards to better address particle pollution effective December 2006. Continuing studies show that fine particles adversely impact public health. Research indicates that wood smoke is a significant contributor to PM<sub>2.5</sub> levels. The District estimates wood smoke may contribute up to 30% to 40% of peak winter PM<sub>2.5</sub> levels, and it is unlikely that the San Francisco Bay Area will meet the new standard for PM<sub>2.5</sub>.

### **Recommendations**

The District should continue current efforts and immediately develop and implement a program to further reduce wood smoke emissions. This program should be a multi-pronged effort and be phased in over the next few years. Characteristics goals of this program should include:

- 1) Support the existing Wood Smoke Program through completion of the following elements:
  - a) Continue promotion of the Model Wood Smoke Ordinance.
  - b) Continue to study wood smoke emissions related to PM<sub>2.5</sub> levels.
  - c) Continue monitoring of localized and community PM<sub>2.5</sub> levels.
  - d) Continue the use of public outreach techniques that use languages representative of our diverse community.
  - e) Expand the existing public outreach to increase awareness of wood smoke impacts on PM<sub>2.5</sub> levels and the harmful effects of elevated PM<sub>2.5</sub>.
  - f) Expand the existing use of incentives to accelerate elimination or conversion of conventional wood burning devices. Develop partnerships with Pacific Gas and

- Electric and the Hearth, Patio, & Barbecue Association for change-outs of older conventional wood burning devices with lower-emitting models.
- g) Develop and include as a part of the existing public outreach a list of fuels that should not be burned in residences. This list should include garbage, plastics, and construction debris and scrap materials that may contain or be covered with hazardous materials. Consider adding to the list of prohibited fuels wood products having moisture content greater than 20%.
  - h) Consider a wood stove crushing program.
- 2) Adopt a Two-Stage Wood Smoke Curtailment program to follow the District's existing voluntary curtailment "Spare the Air Tonight" program and include a mandatory curtailment program as the second-stage, and consider the following:
- a) Reduce the current threshold for Spare the Air Tonight events so that more events are called per season.
  - b) Set the mandatory curtailment threshold at 25 micrograms per cubic meter for PM<sub>2.5</sub> (24-hour average).
  - c) Create a rule to define and prohibit improper emissions from wood burning to provide enforcement officers a tool to prevent individuals creating emissions at the expense of public health.
  - d) Enact an opacity element applicable to residential wood burning emission to aid curtailment enforcement options.
- 3) Keep the Advisory Council informed as the wood smoke program reaches significant milestones in its development and implementation.

### **Key Issues**

PM<sub>2.5</sub> is one of the six criteria pollutants for which national and state standards have been established. It is already regulated from stationary sources through emission limits and from mobile sources through lower-emission vehicles, incentive buy-back programs, transportation control measures and smart growth policies. In addition to PM<sub>2.5</sub> and carbon monoxide, wood smoke emissions contain toxic air contaminants.

Control measures that are effective and reduce wood smoke have already been adopted by other state and regional air quality agencies, such as the Puget Sound Clean Air Agency. The District can benefit from their experience with programs such as burning curtailment, regulatory standards on opacity and enforcement, increased public outreach, and incentives and grants implementation.

### **Information Considered**

Members considered reports to the Committee from:

Jack Colbourn, Director, Outreach and Incentives Division, BAAQMD

Janet Glasgow, Air Quality Program Manager, Compliance and Enforcement Division, BAAQMD

Jami Aggers, Compliance Manager, Compliance Division, San Joaquin Valley Unified Air Pollution Control District

Jim Nolan, Director of Compliance, Puget Sound Clean Air Agency

Kathy Hayes, Government Affairs Director, North Bay Association of Realtors

John Crouch, Director of Affairs, Hearth, Patio and Barbecue Association (HPBA)  
Judy Goldblatt, Public Information Officer, Outreach and Incentives Division, BAAQMD  
Jenny Bard, Communications Director, American Lung Association of California

### **Deliberative Process**

The Public Health Committee was asked to consider this topic by the Council as part of its work starting in 2006. The Committee met on February 14, April 11, May 10, July 18, September 6, and October 10, 2006, to receive and discuss presentations on the issues. The Committee unanimously arrived at its recommendation for forwarding to and consideration by the full Advisory Council. A chronology of the Committee's deliberations, and the presentations received on this matter, is available upon request.

*As amended by the Advisory Council at its meeting on November 8, 2006.*



Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109

DRAFT MINUTES

Advisory Council Public Health Committee Meeting  
10:00 a.m., Tuesday, December 12, 2006

- 1. Call to Order – Roll Call.** Chairperson Bramlett called the meeting to order at 10:05 a.m.  
Present: Jeffrey Bramlett, Chairperson, Cassandra Adams (10:30 a.m.), Janice Kim, M.D., (10:08 a.m.), Steven Kmucha, M.D., Karen Licavoli-Farnkopf, MPH, Linda Weiner.  
Absent: Brian Zamora.
- 2. Public Comment Period.** There were no public comments.
- 3. Approval of Minutes of October 10, 2006.** Dr. Kmucha moved approval of the minutes; seconded by Mr. Bramlett; carried unanimously.
- 4. Discussion on Indoor Air Quality and Asthma:** *The Committee discussed indoor air quality and asthma.*

Councilmember Janice Kim, M.D., arrived at 10:08 a.m.

Chairperson Bramlett opened the discussion on the issue of indoor air quality (IAQ) and asthma and stated that to date no responses had been received by the District staff on the letter that was sent in October, 2006 to the city and county health officers. Mr. Bramlett reviewed two of the proposed items listed in the letter and asked Committee members for their ideas on how the Committee might proceed further on these items: (1) consider collaboration in the creation of seminars/summits with relevant and interested groups to gather information and develop action plans to disseminate this information to address IAQ; and (2) to work to improve the interface between public health and the general medical community about these issues.

Ms. Licavoli-Farnkopf opined that the letter was good background material but that it needed to be more specific with regards to the information that the Committee is trying to obtain from the city and county health officers. It would be helpful to define what the Committee means when discussing collaboration with the various groups. The Committee needs to be more specific about what it is trying to achieve for the District and what the next steps might be in dealing with the complex issue of IAQ and asthma.

There was a lengthy discussion about the development of an agenda for a summit and sharing it with the public health officers to obtain their feedback and input. There could be a key contact person from each county that might review the agenda and provide input with regards to what they might like to include in the seminar/summit. Mr. Bramlett stated that he would prefer not to develop an agenda without engaging the city and county health officers in the process. Mr.

Draft Minutes of December 12, 2006 Public Health Committee Meeting

Bramlett reminded the Committee that the strategy from last year was to try not to recreate new steps but to build on the existing information and programs that were already in place.

Dr. Kmucha commented that there is good evidence that shows that IAQ deteriorates in the winter months when there are a lot of respiratory cases. Also, there is a huge disconnect between the public health department and the medical community. Physicians do not have a lot of time to spend on the public health side. The public health community is working on community issues and a lot of that information does not seem to filter down to the physicians treating individual patients. There are a lot of issues related to IAQ and it would be helpful to get an idea of what questions the District is faced with when they receive phone calls from the public. This might provide the Committee with a better idea on what to focus on while developing recommendations for the District.

Peter Hess, Deputy APCO, stated that the Air District staff is looking at what type of coordination is needed, or how staff should be moving towards interfacing with the health community in the areas of IAQ and asthma. The District receives many inquiries from the public wanting to know the impact and relationship between IAQ, outdoor air quality and their effect on asthma. This topic was given to the Public Health Committee to work on so that the Committee could provide the District with recommendations on how the District might interface with the public, county health officers and non-governmental organizations (NGOs), and what the District's role might be on this issue.

Mr. Hess stated that he and Jack Broadbent, Executive Officer/APCO, had met with the Bay Area County Health Officers Association offering them the opportunity to establish firmer ties between the county health officers and the Air District.

Councilmember Cassandra Adams arrived at 10:30 a.m.

Ms. Weiner suggested that a brief questionnaire be mailed out to the health departments to find out what type of inquiries they receive and what type of tools might help them as a resource. In response to Ms. Weiner's inquiry as to what parameters or authority the Air district has over IAQ and asthma, Mr. Hess stated that in the regulatory area, the District has the authority to regulate certain air contaminants, e.g. paints used in homes, plastic sealers, coatings, consumer products and other types of air contaminants that would go into the ambient atmosphere.

A lengthy discussion ensued regarding possible short-term and long-term recommendations that the Committee might make for IAQ and asthma. Members commented that there are several asthma coalitions in every county and that the District should tap into existing coalitions and work in partnership with them in being a resource to the public. It was also suggested that the Community Outreach Manager of the District should interface with the public health officers. Dr. Kim suggested the California IAQ Working Group's website as a resource, and possibly having the District's web pages linked to other resources.

Mr. Hess suggested the following next steps for the Committee to consider: (1) the District staff would make a presentation to the Committee at its next meeting. The presentation would include items such as what the District is currently engaged in for IAQ and asthma; how many phone calls and other inquiries the District receives; how much time is spent on each inquiry, etc; (2) identify the various health coalitions involved on the issue of asthma in order to tap into those resources; and (3) Mr. Hess would contact Brian Zamora, since he represents the public

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health agencies, to discuss the recent letter that was mailed to the city and county health officers and to find out possible reasons as to why none of the health officers responded to it.

5. **Committee Member Comments/Other Business.** Dr. Kim referred to a new article titled “Wood Smoke Health Effects: A Review” that has recently been published by Informa Healthcare. She could not distribute copies to the Committee members, at this time, because of potential copyright issues; however, she mentioned that she would look into the issue of obtaining copies for the Committee.

Mr. Bramlett requested the members to think of possible issues that they might like the Committee to work on during 2007, and to bring their list of ideas to the Council’s Retreat on January 10, 2007. Mr. Bramlett also mentioned that he would like to change the day when the Public Health Committee meets each month from a Tuesday to some other day during the week, based on his availability.

6. **Time and Place of Next Meeting.** The date for the next meeting will be discussed and finalized at the Council’s Retreat on January 10, 2007.
7. **Adjournment.** The meeting adjourned at 11:24 a.m.

Neel Advani  
Deputy Clerk of the Boards

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109

DRAFT MINUTES

Advisory Council Technical Committee  
1:00 p.m., Wednesday, August 9, 2006

1. **Call to Order – Roll Call.** Chairperson Bornstein called the meeting to order at 1:10 p.m. Present: Robert Bornstein, Ph.D., Chairperson, Irvin Dawid, William Hanna, Stan Hayes, John Holtzclaw, Ph.D. Absent: Sam Altshuler, P.E., Louise Bedsworth, Ph.D.
2. **Public Comment Period.** There were no public comments.
3. **Approval of Minutes of April 12 and June 14, 2006.** Dr. Holtzclaw moved approval of the April 12, 2006 minutes; seconded by Mr. Hanna; carried, with Mr. Dawid abstaining. Dr. Holtzclaw moved approval of the June 14, 2006 minutes; seconded by Chairperson Bornstein; carried unanimously.
4. **Update on the District’s Community Air Risk Evaluation (CARE) Program.** Dr. Phil Martien, Senior Advanced Projects Advisor and CARE Program Manager, stated that the CARE program objectives are to (1) evaluate community cancer and non-cancer health risk from ambient toxic air contaminants, and (2) focus the health risk mitigation measures on locations with higher risk levels and sensitive populations. The program is designed in three phases. Phase I concerns conducting scoping studies of the toxic emission inventory and further refinement of the inventory, along with initial mitigation measures. Phase II concerns modeling pollutant concentrations and continued development of mitigation measures. Phase III concerns exposure assessments and mitigation measures.

Mitigation measures include targeting incentive funds for reducing mobile source emissions; regulating emissions from stationary and indirect sources; advising and collaborating on issues related to development, housing and transportation; sponsoring and supporting applicable legislation; developing model ordinances and enhancing information campaigns. To involve the community and obtain input from other agencies, a Task Force for the CARE program has been created and includes 15 members representing government, business, health and the community.

Phase I of the CARE program is nearing completion. A preliminary toxic air contaminant emission inventory has been developed. Support studies have been conducted, such as a residential wood burning survey that will help to make corrections in the wood smoke inventory. Source apportionment studies for particulate matter (PM) have been conducted, and include refinements that distinguish new from old carbon in the chemical mass balance analyses, which will contribute to the further refinement of source apportionment. Desert Research Institute is assisting with the speciation of the organic portion of the PM. Demographic and health data will be used to target regions for the incentive programs that will reduce emissions within a given locale.

The development of the emission inventory for area and non-road, on-road mobile and point sources required further chemical speciation in order to obtain more accurate speciation profiles and cancer unit risk factors. Data from this effort are then spatially allocated throughout the map of the model domain. Among the findings and results observed to date, data has been generated for cancer toxicity-weighted emissions based on each pollutant—in which diesel particulate ranks as the foremost pollutant at 81%; and by source category in another rendering of the same data, in which on-road sources and construction equipment are the two major source categories.

With respect to diesel PM, the spatial distributions of this pollutant have been plotted, with highest concentrations found in West Oakland and San Francisco, and also in west Alameda County. The same data has been rendered with unit risk-factors applied.

For chronic, non-cancer toxicity-weighted emissions, acrolein at 48% and formaldehyde at 20% are the major pollutants when data are weighted by pollutant. For source category, on-road mobile sources at 33% and aircraft at 24% constitute the major sources. When the data for formaldehyde is applied to the map of the study domain, concentrations are highest near major roadways and military airports in the Bay Area.

In terms of acute toxicity-weighted emissions, acrolein is the major pollutant at 94%, and aircraft at 40% and on-road mobile sources at 38% are the major source categories of formaldehyde and acrolein. When acrolein emissions are plotted on the study domain, airports show the highest concentration levels.

Demographic and health data have been plotted on the map of the study domain. Data have been plotted for populations under age 18 and then adjusted with asthma hospitalization rates. The plotted data are consistent with the maps of emissions, with western Alameda as an area of particular attention. However, direct inferences of this data are not to be recommended, except insofar as the plots help identify areas with sensitive populations.

Phase I findings are that (1) 80% of cancer health risk is attributable to diesel PM; (2) 50% of chronic non-cancer risk is from acrolein; (3) more than 90% of acute non-cancer risk is also from acrolein; (4) on-road and off-road diesel emissions, including construction, shipping, and rail are large sources of cancer risk; and (5) gasoline powered vehicles and aircraft are the largest contributors to non-cancer risk. The highest concentrations of diesel PM and acrolein are found in eastern San Francisco and western Alameda and Contra Costa counties. These areas also have large numbers of sensitive receptors.

Policy recommendations from these findings are that (1) a gridded toxic air contaminant inventory will be used as a surrogate for exposure; (2) regional demographic data will be used to identify grid cells with sensitive populations; (3) mitigation measures will be targeted for areas with high concentrations of toxic air contaminant emissions and sensitive populations; and (4) follow-up will be conducted with more sophisticated techniques to evaluate population exposure.

Plots over the study domain of toxic air contaminants for total PM<sub>2.5</sub> weighted by groups under age 18 and over age 64 have been made for identifying projects in areas to which Carl Moyer program grants could be applied to mitigate high concentrations of diesel PM.

With regard to next steps, Phase II will include modeling concentrations and continuing development of mitigation measures. Preliminary modeling on a local and regional scale will also be conducted, along with health risk assessment for the Port of Oakland and large rail yards. Additional mitigation measures for these will be developed.

Phase III will contain the development of exposure assessments, refinement of modeling and measurements, and development of health risk assessments along with continuing work on emission mitigation measures.

In reply to questions, Dr. Martien noted that similar toxic air contaminant analysis has occurred in the South Coast AQMD, and that the plots of data have some degree of parallel with those developed in the Bay Area. Chairperson Bornstein inquired if it might be advisable to request a presentation from the South Coast AQMD staff on its modeling work and then to have a meeting between South Coast and Bay Area staff, as well as Dr. Eric Fujita from the Desert Research Institute (DRI). Dr. Martien replied that this could prove to be productive. The Committee members agreed with this suggestion and requested that the modeling staff of the South Coast be invited to give the Technical Committee a presentation on its toxic air contaminant modeling work to date. Dr. Bornstein suggested that the Public Health Committee be invited join the Technical Committee in receiving this presentation.

5. **Committee Member Comments/Other Business.** Chairperson Bornstein stated that the California Energy Commission is hosting its Third Annual Research Conference on Climate Change in Sacramento on September 13-15, 2006.
6. **Time and Place of Next Meeting.** 1:00 p.m., Wednesday, October 11, 2006, 939 Ellis Street, San Francisco, CA 94109.
7. **Adjournment.** 2:39 p.m.

James N. Corazza  
Deputy Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Glueck and Members of the Advisory Council

From: Jack Broadbent, Executive Officer/Air Pollution Control Officer

Date: January 4, 2007

Re: Key Issues Facing the District and Proposed Assignments to the Council

RECOMMENDED ACTION

During the retreat, the Advisory Council is requested to review the following assignments, assign to the appropriate committees and to establish a work plan to accomplish the tasks.

- 1) Community Air Risk Evaluation (CARE) Program – The District is entering the third year of the multi-year CARE program. During the past two years, the Advisory Council has provided input to the staff on the CARE program. The Executive Officer/APCO is requesting that the Advisory Council continue to track the progress of the CARE program and to provide input as appropriate.
- 2) Particulate Matter Control and Wood Smoke Control Strategy – During 2006, the EPA revised the federal ambient air quality standards for fine particulate matter. The District prepared a control program to move closer to the attainment of the State particulate matter ambient air quality standard. The Executive Officer/APCO is requesting that the Advisory Council review the contribution of emission sources that may lead to the non-attainment of the revised federal and state particulate matter ambient air quality standards and make recommendations on potential control strategies. The Executive Officer/APCO is also requesting that the Advisory Council be available to provide input to staff on the development of programs to implement the wood smoke control strategy.
- 3) Spare the Air Day/Tonight Mitigation Measures – The Spare the Air Day/Tonight programs are an important part of reducing emissions during days/nights when the air quality may become unhealthful. The Executive Officer/APCO is requesting that the Advisory Council review the existing programs of reducing emissions during Spare the Air Days/Nights and make recommendations for new or improved measures.
- 4) Asthma & Indoor Air Quality – Numerous reports link asthma with poor indoor air quality. The Executive Officer/APCO is requesting that Advisory Council continue

the work started in 2006 to review and suggest possible options where the District can best interface with the County and City Health Officers relative to indoor air quality and asthma.

- 5) Climate Protection – During 2006, the Air District and the State legislature moved forward with groundbreaking programs to address greenhouse gas emission reduction programs. The Executive Officer/APCO is requesting that the Advisory Council continue to provide input to the staff on the development of programs to implement greenhouse gas emission reduction programs.

### BACKGROUND

California Health and Safety Code Section 40261 specifies that the Advisory Council, as one of its duties, is to advise and consult with the Air Pollution Control Officer. The issues outlined above are those on which the Air Pollution Control Officer requests advice from the Advisory Council.

### DISCUSSION

During the Advisory Council retreat members of Air District senior management will be available to discuss and answer questions of Council members pertaining to the assignments.

JPB:cmt