



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

BOARD OF DIRECTORS  
EXECUTIVE COMMITTEE MEETING

COMMITTEE MEMBERS

PAMELA TORLIATT – CHAIR  
TOM BATES - SECRETARY  
JOHN GIOIA  
YORIKO KISHIMOTO

BRAD WAGENKNECHT – VICE CHAIRPERSON  
CHRIS DALY  
SCOTT HAGGERTY  
MARK ROSS  
TIM SMITH

MONDAY  
NOVEMBER 24, 2008  
9:30 A.M.

4<sup>TH</sup> FLOOR CONFERENCE ROOM  
DISTRICT OFFICE

AGENDA

1. **CALL TO ORDER – ROLL CALL**
2. **PUBLIC COMMENT PERIOD** (*Public Comment on Non-Agenda Items Pursuant to Government Code § 54954.3*) Members of the public are afforded the opportunity to speak on any agenda item. All agendas for regular meetings are posted at District headquarters, 939 Ellis Street, San Francisco, CA, at least 72 hours in advance of a regular meeting. At the beginning of the regular meeting agenda, an opportunity is also provided for the public to speak on any subject within the Committee's subject matter jurisdiction. Speakers will be limited to three (3) minutes each.
3. **APPROVAL OF MINUTES OF SEPTEMBER 29, 2008**
4. **QUARTERLY REPORT OF THE HEARING BOARD –JULY, 2008 – SEPTEMBER, 2008**  
T. Trumbull/5127  
[TerryT1011@aol.com](mailto:TerryT1011@aol.com)
5. **REPORT OF THE ADVISORY COUNCIL: JULY, 2008– NOVEMBER, 2008**  
L. Bedsworth/5127  
[bedsworth@ppic.org](mailto:bedsworth@ppic.org)
6. **CONTINUED DISCUSSION OF THE ROLE OF THE ADVISORY COUNCIL**  
J. Broadbent/5052  
[jbroadbent@baaqmd.gov](mailto:jbroadbent@baaqmd.gov)  
  
*The Committee will receive information from staff on discussions held with the Advisory Council with regard to the proposed role of the Council.*
7. **CONSIDERATION OF COMMUNITY GRANT PROGRAM FUNDING LEVEL**  
J. Broadbent/5052  
[jbroadbent@baaqmd.gov](mailto:jbroadbent@baaqmd.gov)

*The Committee will consider a Community Grant program and funding level.*

8. **PRODUCTION SYSTEM PROJECT UPDATE**

J. McKay/4629  
[jmkay@baaqmd.gov](mailto:jmkay@baaqmd.gov)

*The Committee will receive an update on the Production System project*

9. **JOINT POLICY COMMITTEE UPDATE**

J. Roggenkamp/4646  
[jroggenkamp@baaqmd.gov](mailto:jroggenkamp@baaqmd.gov)

*Staff will provide an update on the activities of the Joint Policy Committee.*

10. **CLOSED SESSION: PUBLIC EMPLOYEE PERFORMANCE EVALUATION**

*Pursuant to Government Code Section 54957 and 54957.6, the Committee will meet in closed session to conduct performance evaluations of the Executive Officer/APCO and the District Counsel.*

11. **OPEN SESSION: COMMITTEE MEMBER COMMENTS/OTHER BUSINESS**

*Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, make a brief announcement or report on his or her own activities, provide a reference to staff regarding 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. (Gov't Code § 54954.2).*

12. **TIME AND PLACE OF NEXT MEETING: AT THE CALL OF THE CHAIR**

13. **ADJOURNMENT**

**CONTACT EXECUTIVE OFFICE- 939 ELLIS STREET SAN  
FRANCISCO, CA 94109**

**(415) 749-5127  
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 Clerk's Office should be given at least three working days prior to the date of the meeting so that arrangements can be made accordingly.
- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District's offices at 939 Ellis Street, San Francisco, CA 94109, at the time such writing is made available to all, or a majority of all, members of that body. Such writing(s) may also be posted on the District's website ([www.baaqmd.gov](http://www.baaqmd.gov)) at that time.

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

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

**NOVEMBER 2008**

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
<b>Board of Directors Legislative Committee</b> <i>(Meets 4<sup>th</sup> Monday of the Month) -</i> <b>CANCELLED</b>	Monday	24	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Executive Committee</b> <i>(At the Call of the Chair)</i>	Monday	24	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Personnel Committee</b> <i>(At the Call of the Chair)</i>	Monday	24	Immediately Following Executive Committee Meeting	4 <sup>th</sup> Floor Conf. Room

**DECEMBER 2008**

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
<b>Advisory Council Technical Committee</b> <i>(Meets 1<sup>st</sup> Monday of every even Month)</i> <b>- CANCELLED</b>	Monday	1	9:30 a.m.	Board Room
<b>Board of Directors Climate Protection Committee Meeting</b> <i>(Meets 3<sup>rd</sup> Thursday Every Other Month)</i> <b>CANCELLED</b>	Monday	1	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	3	9:45 a.m.	Board Room
<b>Advisory Council Air Quality Planning Committee</b> <i>(Meets 1<sup>st</sup> Thursday Even Month)</i> <b>- CANCELLED</b>	Thursday	4	9:30 a.m.	Board Room
<b>Advisory Council Public Health Committee</b> – <i>(Meets 2<sup>nd</sup> Wednesday Even Month)</i> <b>- CANCELLED</b>	Wednesday	10	1:30 p.m.	Board Room
<b>Board of Directors Stationary Source Committee</b> <i>(Meets 3<sup>rd</sup> Monday Quarterly)</i> <b>- CANCELLED</b>	Monday	15	9:30 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	17	9:45 a.m.	Board Room
<b>Board of Directors Legislative Committee</b> <i>(Meets 4<sup>th</sup> Monday of the Month)</i>	Monday	22	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets 4<sup>th</sup> Wednesday of each month)</i> <b>- CANCELLED</b>	Wednesday	24	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room

## JANUARY 2009

<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 Retreat</b> <i>(Meets 2<sup>nd</sup> Wednesday Every Other Month)</i>	Wednesday	14	10:00 a.m.	Board Room
<b>Board of Directors Regular Meeting/Retreat</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	To Be Determined
<b>Board of Directors Mobile Source Committee</b> – <i>(Meets 4<sup>th</sup> Thursday of each Month)</i>	Thursday	22	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Legislative Committee</b> <i>(Meets 4<sup>th</sup> Monday of the Month)</i>	Monday	26	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets 4<sup>th</sup> Wednesday of each month)</i>	Wednesday	28	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room

HL - 11/19/08 (3:47 a.m.)

P/Library/Forms/Calendar/Calendar/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Pamela Torliatt and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 17, 2008

Re: Executive Committee Draft Minutes

RECOMMENDED ACTION:

Approve attached draft minutes of the Executive Committee meeting of September 29, 2008.

DISCUSSION

Attached for your review and approval are the draft minutes of the September 29, 2008 Executive Committee meeting.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109  
(415) 749-5000

**DRAFT MINUTES**

Summary of Board of Directors  
Executive Committee Meeting  
9:45 a.m., Monday, September 29, 2008

1. **Call to Order - Roll Call:** Chair Jerry Hill called the meeting to order at 9:45 a.m.  
**Present:** Jerry Hill, Chair, Chris Daly, John Gioia, Scott Haggerty, Mark Ross, Tim Smith, Pamela Torliatt, Gayle B. Uilkema, Brad Wagenknecht.  
**Absent:** None  
**Others Present:** Terry Trumbull, Hearing Board Member; Ted Droettboom and Bruce Riordan, Joint Policy Committee
2. **Public Comment Period:** There were none.
3. **Approval of Minutes of June 11, 2008:** Director Wagenknecht moved approval of the minutes; seconded by Director Smith; carried unanimously without objection.
4. **Hearing Board Quarterly Reports – April 2008 – June 2008:**  
Terry Trumbull, Hearing Board Member, gave the Hearing Board Quarterly Report for April 2008 through June 2008.  
**Committee Action:** None. This report provided for information only.
5. **Advisory Council Activities and Recommendations:** *Louise Bedsworth, Chairperson of the Advisory Council, provided an update of the Council's activities and recommendations on a Strategy Relative to Asthma and Indoor Air Quality and Principles developed in response to the Air Resources Board's AB 32 Climate Change Draft Scoping Plan request for comments.*

Advisory Council Chairperson, Dr. Louise Bedsworth, reported on the Advisory Council's activities, stating that the Technical Committee is working on climate change and the Air Quality Planning Committee has worked on congestion pricing issues related to reducing vehicle miles traveled and developed recommended principles on AB 32. The Public Health Committee finished their indoor air quality and CARE work and she said minutes from those meetings are provided in the Executive Committee packet.

Dr. Bedsworth said a recommendation was developed by the Public Health Committee on how the Advisory Council could improve its role to interface with the public and other organizations related to indoor air quality and asthma. It focuses on what the Air District can do to improve its responsiveness for those coming to the District looking for questions as it relates to indoor and outdoor air quality. It would more efficiently address concerns, direct callers to the correct place to discuss conditions with health providers, and involve staff participation in the California Indoor Working Group which comprises of state, federal and local organizations. It would also help refer callers to health care providers organize existing information, expand the District's website page on indoor air quality and track the volume and types of calls made.

Committee Member Uilkema suggested that conditions of approval should be developed when subdivisions are being considered for approval. She confirmed ARB has not yet adopted or established indoor air quality standards but this is an area of inquiry and the District will see more of it with SMART growth and transit-oriented development (TOD). Mr. Broadbent reported staff is developing land use guidelines and anticipates a section which will help local cities and counties as developments are approved, and as they are associated with freeways, TOD's and SMART growth.

Committee Member Wagenknecht believed this was a good first step to quantifying where indoor air quality issues are and he made a motion to support the recommendation. Committee Member Gioia seconded the motion and believed that success depends upon interactions with local health departments.

Dr. Bedsworth described the representation of health officials on the Advisory Council and said the sense of the Committee and Council is to increase this interaction, as well as secure a potential Public Health Officer position with the Air District.

**Committee Action:** Director Wagenknecht made a motion to recommend Board of Directors' approval of the Advisory Council's Strategy for Asthma as it relates to indoor air quality; Director Gioia seconded the motion; carried unanimously without objection.

Dr. Bedsworth gave the second part of the report and stating that the Air Quality Planning Committee developed a set of recommended Principles in response to the draft AB 32 Scoping Plan relating to transportation and land use recommendations. A number of recommendations focused on how the State would meet its 2020 goal to 1990 levels, as well as transportation and land use focus on SMART growth. The Committee felt the component in the Scoping Plan was rather modest, and therefore developed the principles for the Air District to consider in making their comments to the ARB. She read the Principles into the record and noted that they were not listed in any priority.

Chair Hill stated that the District had already sent comments to the ARB on the draft plan, and Mr. Broadbent clarified that the proposed Scoping Plan will come out this week and it is appropriate for the Board of Directors to provide comment on it. He said the Principles could be incorporated into the Board's submittal, which will be presented to the Board of Directors at their October 15<sup>th</sup> meeting.

**Committee Action:** Director Wagenknecht made a motion to recommend Board of Directors' approval of the Principles developed in response to the California Air Resources Board's request for comments on its AB 32 Climate Change Draft Scoping Plan; Director Uilkema seconded the motion; carried unanimously without objection.

Chair Hill requested Item 7 be moved up on the agenda for discussion and recommendation.

**7. Discussion and Possible Recommendations on the Advisory Council's Role:** *The Committee discussed the Advisory Council's role and provided direction to staff.*

Mr. Broadbent reported the item involves discussing the role of the Advisory Council and how it can be improved or enhanced. He said ultimately, it would require some changes to the District's Administrative Code which would require consideration and approval at two Board meetings. He said the Advisory Council was established with the creation of the Air District in 1955, it is a 20-member Board which meets every other month with four standing committees. The Council consists of representatives from various public health, community planning, agriculture, engineer, conservation, architect, and college and university groups. It is a robust and diverse Board and the District believes they could be more effective in how the Council supports the Air District staff and its mission.

Specifically, the request is to have the Advisory Council meet four times a year, serve as a body to convene experts in four topic areas: 1) health information on air quality; 2) stationary source technology and mobile vehicle technology; 3) land use and transportation; and 4) climate change. Staff believes the Council would become more effective and staff has developed a set of procedures on how it would determine relevant topics.

Dr. Bedsworth concurred with the goal of improving the Council's overall effectiveness and efficiency, agreed with the four topic areas, discussed each Committee's efforts in taking on a topic, holding speaker presentations and bringing forth recommendations. She believed it is a good idea to focus attention on a single topic in a shorter period of time. She noted that six Council members would soon be either termed out or going off the Council and she believed the change in meeting schedule could assist in recruitment efforts.

Mr. Broadbent also noted that keynote speakers would also be able to be secured in advance, agreed that the Advisory Council over the last year has been very useful, and discussed the increasing amount of time and resources dedicated to staffing the Council and its Committees. If approved by the Executive Committee, the new role of the Advisory Council could be in place starting next year. Mr. Broadbent noted Dr. Bedsworth serves as an ex-officio member of the Executive Committee and could report out items.

Committee Member Smith confirmed with Mr. Bunger that the 20 appointed positions are delineated in the State statute, and the Administrative Code recognizes that the Air District appoints an Advisory Council. Mr. Bunger also discussed the diversity of those serving on the Council, the process of recruiting members and the status of voluntary participation of its members.

Dr. Bedsworth suggested the Executive Committee review the Advisory Council's structure after being in place for one year to determine if the four meetings are working and whether or not further revisions need to be made.

Committee Member Wagenknecht said he believed the District is flexible enough to schedule pertinent topics and he supported the Advisory Council's time and involvement focus on more vital issues that have a lasting effect into the future. Committee members agreed with the need for a review at the end of the year by the Executive Committee



**Committee Action:** By consensus, the Committee supported the request to have the Advisory Council meet four times a year, serve as a body to convene experts in four topic areas: 1) health information on air quality; 2) stationary source technology and mobile vehicle technology; 3) land use and transportation; and 4) climate change, with a review at the end of the year by the Executive Committee.

**6. Joint Policy Committee Update:** *Ted Droettboom provided an update on the activities of the Joint Policy Committee.*

Ted Droettboom provided an update on the activities of the Joint Policy Committee, stating that MTC passed a provisional investment plan for the 2009 RTP and included in it is a doubling of the funding for the Transportation for Livable Communities (TLC) program available to local governments for smart growth. He expects that a significant portion of the money will go to Priority Development Areas (PDA's). He reported that the JPC had recently hired Bruce Riordan to coordinate climate change issues and work with each of the four regional agencies and sort out issues of duplication and identify value-added programs agencies can work on together.

Regarding partnerships, Mr. Droettboom said the JPC has been approached by the Silicon Valley Leadership group who has asked them to participate in a Climate Compact which involves initially the leadership group and the three big cities—San Francisco, San Jose and Oakland. The JPC has also been invited, along with the four regional agencies, the Air District, ABAG, MTC and BCDC to join in and pursue 10 targets for climate change-related initiatives and to help to move that out to other jurisdictions.

Mr. Droettboom stated that a more recent second initiative from the Bay Area Council asks the four regional agencies to participate with them in an Economic Institute. The first priority initiatives are for regional agencies to deal with issues related to AB 32 and SB 375 and assist business groups.

Mr. Droettboom said he recommended to the JPC that it participate with the Silicon Valley Leadership group and the three big cities. He also believes the regional agencies should participate with the Bay Area Council for similar reasons, but noted issues relating to ownership and precedence.

Committee Members discussed concerns relating to the desire to identify each agency's priorities and bring them altogether, support for public/private partnerships, maximization of funding, positive relationships that do not compromise overall goals, the need for the JPC to be proactive and work toward a unified position, the ongoing work of the Air District, and the need to continue working with ARB on AB32 implementation and seek input and collaboration from business groups and environmental organizations.

Bruce Riordan, JPC consultant, noted that he and Mr. Droettboom met with the Executive Directors at each of the four agencies to understand key priorities, identify common barriers, and map out what everyone is doing so there is better understanding. His job is to help all four agencies do better, and he cited as examples the Air District's scheduled Summit, ABAG's work with city governments, BCDC work on adaptation with cities, and he supported a coordinated approach. In response to how the Compact works, Mr. Riordan noted that Silicon Valley Leadership Group clearly wants the JPC to join them and the three big cities and said they have invited the four regional agencies to also sign up in support of the initiative and goals. Mr. Droettboom believed that if the JPC enters into a partnership, a clear context and policy statement should be developed that addresses all involved relationships.

**Committee Action:** There was consensus among the Committee that a JPC Partnership Policy was needed.

**8. Out of State Travel Policy Discussion:** *As directed by the Board of Directors, the Committee discussed and reviewed the Air District's Out of State Travel Policy.*

Committee Member Uilkema said she asked for discussion on the item because of the fact that many agencies are curtailing travel and Advisory Council members are not included in the Air District's policy. She discussed the recent A&WMA Annual Conference & Exhibition in Portland, Oregon, said the Air District's Travel Policy does not address Advisory Councilmember attendance and she asked that it be modified to include the number of members and criteria for attendance.

Mr. Broadbent discussed staff and Advisory Council attendance at the Annual Conference and after a brief description of the benefits derived from the Conference he agreed to update the policy to include the Advisory Council's attendance and limit it to the Advisory Council Chairperson and four (4) members.

**Committee Action:** By consensus, the Committee directed the Executive Officer/APCO to update the travel policy to include the Advisory Council's attendance and limit it to the Advisory Council Chairperson and four (4) members.

**9. Update on Other Post Employment Benefits (OPEB) Liability:** *The Committee received an update and was presented with options on actions to address the Air District's OPEB liability from previous years.*

Human Resources Officer Mike Rich began by addressing the Air District's liability of health care benefits and provided the Committee with an overview of definitions of OPEB (Other-than-pension Post Employment Benefits); ARC (Annual Required Contribution), the normal cost which is the portion of the Annual Required Contribution that represents the value of benefits earned during the year; and UAAL (Unfunded Accrued Actuarial Liability), which is the value of benefits earned but not pre-funded to date. He provided actuarial results, noting that the following numbers assume a discount rate of 6.75%:

- Normal Cost is \$1.4 million per year;
- Unfunded Accrued Actuarial Liability (UAAL) is \$35 million (\$2.5 million per year amortized over 20 years);
- Annual Required Contribution (ARC) is \$3.9 million per year.

He said the Air District has addressed its liability of health care benefits, as follows:

- \$1.4 million per year (\$4.2 million so far) had been approved to pre-fund normal cost;
- The Air District selected CalPERS to administer pre-funding and has executed a contract;
- The Air District sent an initial deposit of \$4.2 million to CalPERS.

Staff then developed options to address unfunded accrued actuarial liability (UAAL) and he discussed each option, as follows:

Option 1: Issue Bonds: The borrowing cost would be at 6% and sent to CalPERS. CalPERS would assume a 7.75% rate of return, there would be a potential savings of \$6 million to \$9 million which varies based on amortization schedule and debt service model used, and the savings figures reflect present value. A 30-year amortization with level debt model would equal \$2.2 million per year. Issuing bonds for half of the UAAL (\$1.1 million) would reduce the short-term budget impact.

Option 2: Increase Pre-Funding Level: Increasing the funding level does not require issuing bonds, it provides more flexibility than bonds and the Board can decide the funding level each year, and a 20-year amortization would yield \$2.4 million per year.

Option 3: Maintain Pre-Funding Level: With this option, there is no short-term budget impact; it foregoes any long-term savings, but results in ballooning payments, where the ratio of benefit payments to payroll roughly doubles in the next 9 years.

Committee Members asked questions regarding retiree health benefits and health care through CalPERS. Mr. Rich said staff has no recommendation for any of the options, and simply wanted to present the Committee with information on each option prior to moving the item onto the Budget and Finance Committee. After brief discussion, Committee members believed Option 2 provided greater flexibility and concern was voiced with issuing bonds at the present time.

**Committee Action:** Director Torliatt made a motion to recommend Option 2 to increase the funding level; seconded by Director Smith; carried unanimously without objection.

**10. Overview and Discussion of Air District's 2009 Clean Air Plan:** *The Committee received an overview of the Multi-Pollutant approach for the Air District's 2009 Clean Air Plan.*

Principal Environmental Planner, David Burch, provided an overview of the Multi-Pollutant approach for the Air District's 2009 Clean Air Plan. He said the Air District updated the 2005 Strategy to attain state ozone standards, noted the California Clean Air Act's basic requirements are to report on progress, update baseline and trends, develop a control strategy including "all feasible control measures to achieve state standards by earliest practicable date, and to reduce transport to neighboring air basins. The District will collaborate with regional agency partners and coordinate the Clean Air Plan with key regional plans such as Transportation 2035, ABAG Projections, and FOCUS.

Mr. Burch said the Control Strategy is an overall plan for Air District actions for the 2010-2012 timeframe and beyond and incorporates the following:

- Stationary Source Control Measures (factories, refineries, dry cleaners) via rules and regulations;
- Transportation Control Measures to reduce vehicle travel and emissions (with partner agencies);
- Mobile Source Measures to promote the use of cleaner vehicles and fuels through incentives and grants.

He discussed the broader scope for the 2009 Clean Air Plan as addressing each pollutant separately, multi-pollutant planning to reduce ozone precursors, PM, air toxics and CO<sub>2</sub>, and developing goals to prioritize control measures to reduce health impacts and maximize co-benefits to reduce greenhouse gases. The goals and benefits of multi-pollutant planning include better integrated efforts, optimizing synergies, minimizing trade-offs among control measures, better justifying potential control measures by

estimating benefits on a multi-pollutant basis, identifying and prioritizing control measures that would provide the greatest health benefit, better integrating planning for land use, transportation, energy and climate protection, and also helping regulated communities to better plan for compliance.

Mr. Burch reported that challenges ahead include addressing the lack of guidance or models, varying pollutants, and how to evaluate control measures on a multi-pollutant basis. He said a potential approach staff is looking into will analyze health impacts through a chain of causation, which focuses on emissions, concentrations, exposure, health effects and costs.

Mr. Burch discussed the planning schedule as follows, stating staff will perform robust public outreach:

Fall 2008

- Identify and review potential control measures
- Work on developing evaluation methodology

Early 2009

- Preliminary control measures and control strategy
- CEQA Notice of Preparation

Summer 2009

- Issue draft Plan and draft CEQA document

Fall 2009

- Adopt final Plan and final CEQA document

Committee members discussed the Clean Air Plan and confirmed that the Air District is likely to be a non-attainment area so the planning will help get us to that, the District will tailor it for federal requirements, and immediate impacts remain a goal.

- 11. Committee Member Comments/Other Business:** None
- 12. Time and Place of Next Meeting:** At the call of the Chair.
- 12. Adjournment.** The meeting was adjourned at 11:44 a.m.

Lisa Harper  
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
 Memorandum

**TO:** Chairperson Pamela Torliatt and Members  
 of the Executive Committee

**FROM:** Chairperson Thomas M. Dailey, M.D., and Members of the Hearing Board

**DATE:** November 20, 2008

**RE:** Hearing Board Quarterly Report – JULY 2008 – SEPTEMBER 2008

**RECOMMENDED ACTION:**

This report is provided for information only.

**DISCUSSION:**

<u>COUNTY/CITY</u>	<u>PARTY/PROCEEDING</u>	<u>REGULATION(S)</u>	<u>STATUS</u>	<u>PERIOD OF VARIANCE</u>	<u>ESTIMATED EXCESS EMISSIONS</u>
Alameda/Livermore	AIR POLLUTION CONTROL OFFICER of the BAY AREA AIR QUALITY MANAGEMENT DISTRICT vs. MASOOD AMINI-FILABAD, aka AMINI FILABAD and HAMID AMINI, individually, and d/b/a LIVERMORE LIVERMORE GAS MART, an unincorporated association – Docket No. 3557 – Accusation and Request for Order of Abatement (Permit to Operate) for Violation of Regulation 2, Rule 1, Section 302, and Request for Order for Abatement (Permit to Operate).	2-1-302	Withdrawn	===	===
Contra Costa/Richmond	CHEVRON PRODUCTS COMPANY – Docket No. 3558 – Emergency Variance from Regulation 2, Rule 1, Section 307 and Regulation 2, Rule 6, Section 307, insofar as they require compliance with (i) Condition No. 15698, Part 1, and Tables II.B and IV-C.3.1 of the Refinery’s Major Facility Review Permit; and (ii) Standard Condition I.B.2 of the Refinery’s Major Facility Review Permit, insofar as it requires compliance with Condition No. 15698, Part 1, and Tables II.B. and IV-C.3.1 of the Refinery’s Major Facility Review Permit.	2-1-307 2-6-307 (Major Facility Review Permit)	Granted	7/9/08 – 8/7/08	===

Solano/Benicia

**VALERO REFINING COMPANY - CALIFORNIA**  
**(Emergency Variance - Docket No. 3547 - Variance from Regulation 8, Rule 5, Sections 328 and 304 (including reference to 8-5-320, 8-5-321 and 8-5-322); Regulations 2-1-307 and 2-6-307, insofar as they require compliance with (i) Condition No. 20762, Table IV-J33 and Table VII-J33 of the Facility's Major Facility Review Permit and (ii) Standard Condition 1.B.2 of the Facility's Major Facility Review Permit, insofar as it requires compliance with Condition No. 20762, Table IV-J33 and Table VII-J33 of the Facility's Major Facility Review Permit.**

**8-5-328**  
**8-5-304**  
**2-1-307**  
**2-6-307**  
**(Major Facility Review Permit)**

Withdrawn

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1. **NOTE: During the third quarter of 2008, the Hearing Board scheduled five (5) hearings but held none due to two (2) Dockets being dismissed and three (3) Dockets being continued into the next Quarter. A total of \$3,086 was collected as Hearing Board fees and no excess emissions fees were collected during this quarter.**

**EXCESS EMISSION DETAILS**

<b><u>COMPANY NAME</u></b>	<b><u>DOCKET NO.</u></b>	<b><u>TOTAL EMISSIONS</u></b>	<b><u>TYPES OF EMISSIONS</u></b>	<b><u>PER UNIT COST</u></b>	<b><u>TOTAL AMT COLLECTED</u></b>
					\$ 0
				<b>TOTAL COLLECTED:</b>	<b><u>\$ 0</u></b>

Respectfully submitted,

Thomas M. Dailey, M.D.  
Chair, Hearing Board

Prepared by: Lisa Harper  
Reviewed by: Mary Ann Goodley

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Pamela Torliatt and Members  
of the Executive Committee

From: Louise Bedsworth, Ph.D.,  
Chairperson Advisory Council

Date: November 20, 2008

Re: Advisory Council Activities and Recommendation

RECOMMENDATIONS:

Recommend Board of Directors approval of the Advisory Council's Resolution Regarding Climate Change and Regional Pollution.

DISCUSSION:

Presented below are summaries of the key issues discussed at meetings of the Advisory Council and its Standing Committees during July through December 2008.

- A) Advisory Council Regular Meeting of July 9, 2008: The Advisory Council received reports from each of its committees. The Council discussed and approved recommendations presented by the Public Health Committee regarding a Strategy for Asthma as it relates to Indoor Air Quality. (Board of Directors approved the Strategy at its October 1, 2008 meeting.) The Committee received an update on the Community Air Risk Evaluation (CARE) Program from Program Manager Dr. Phil Martien. The Council also received a report from APCO Jack Broadbent outlining Air District activities.
- B) Technical Committee Meeting of August 4, 2008: The Technical Committee had a discussion on Climate Change: Synergies and Conflicts of Climate Change on Bay Area Air Quality. The Committee also discussed information received in previous presentations (Update on PM Inventory Development, Modeling and Data Analysis presented on February 11, 2008 by Mr. Saffet Tanrikulu and Mr. David Fairley; Consequences of Changes in Temperature, Inflow Boundary Conditions and Local Emissions on Air Quality in Central California presented on April 7, 2008 by Dr. Rob Harley; and Past and Future Temperature World-Wide, in California and the Bay Area presented on June 9, 2008 by Dr. Philip B. Duffy) and began drafting a recommendation to the full Council.

- C) Air Quality Planning Committee Meeting of August 11, 2008: The Air Quality Planning Committee received a presentation by Environmental Planner Sigalle Michael regarding California Air Resources Board's AB 32 Climate Change Draft Scoping Plan. The Committee drafted Recommended Principles in response to the California Air Resources Board's request for comments on its AB 32 Climate Change Draft Scoping Plan.
- D) Advisory Council Regular Meeting of September 10, 2008. The Council received reports from each of its Committees. The Council discussed and approved recommendations presented by the Air Quality Planning Committee regarding Principles developed in response to California Air Resources Board's request for comments on its AB 32 Climate Change Draft Scoping Plan. (Board of Directors approved the Recommended Principles at its October 1, 2008 meeting.) The Council also received a presentation from Ursula Vogel, Public Information Officer with the Metropolitan Transportation Commission on its Regional Transportation Plan 2035.
- E) Advisory Council Executive Committee Meeting of September 10, 2008: The Committee received reports from each of the Council's standing committees.
- F) Public Health Committee Meeting of October 8, 2008: The Committee received a presentation by Advisory Council Chairperson Louise Wells Bedsworth, PhD on the Public Health Impacts of Climate Change.
- G) Advisory Council Special Meeting of October 21, 2008: The Council discussed the revised Advisory Council Role as proposed by the Board of Directors Executive Committee.
- H) Technical Committee Meeting of October 22, 2008: The Committee continued its discussion of climate change and air quality. It drafted a recommended Resolution Regarding Climate Change and Regional Pollution for approval by the full Council.
- I) Advisory Council Executive Committee Meeting of November 12, 2008: The Committee received reports from each of the Council's standing committees.
- J) Advisory Council Regular Meeting of November 12, 2008: The Advisory Council received reports from each of its Committees. The Council discussed and reviewed recommendations presented by the Technical Committee on a Resolution Regarding Climate Change and Regional Pollution. The Council unanimously agreed to forward the Resolution to the Executive Committee for consideration by the Board of Directors. A copy of the Council's Resolution is attached for Committee review and consideration.



The minutes of the above referenced meetings are attached.

Respectfully submitted,

Louise Wells Bedsworth, PhD  
Advisory Council Chairperson

Prepared by: Kristianna Ledesma  
Reviewed by: Mary Ann Goodley

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
(415) 749-5000

### **APPROVED MINUTES**

Advisory Council Regular Meeting  
2:00 p.m., Wednesday, July 9, 2008

#### **Call To Order**

Opening Comment: Vice Chairperson Brazil called the meeting to order at 2:08 p.m.

Roll Call: Sam Altshuler, Harold Brazil, Vice Chair; Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, MPA, Fred Glueck, John Holtzclaw, Ph.D., Robert T.P. Huang, Ph.D., Steven T. Kmucha, Kraig Kurucz, Kendal Oku, Virginia Smyly, Linda Weiner and Brian Zamora.

Absent: Cassandra Adams, Louise Bedsworth, Ph.D., Irwin Dawid, Emily Drennen, William Hanna and Karen Licavoli-Farnkopf.

Oath of Office: The Oath of Office was given to Virginia Smyly, Advisory Council Member, Public Health category, for a term effective immediately, and ending, December 31, 2009.

**Public Comment Period** – There were no public comments.

#### **Consent Calendar**

1. Approval of Minutes of May 15, 2008

Council Member Holtzclaw requested the following amendments:

- Page 4, 4<sup>th</sup> paragraph; “Council Member Weiner referred to the PM 2.5 standards in 2020 and she confirmed...”
- Page 4, 5<sup>th</sup> paragraph; “If it is, this is the strategy that gets put in the SIPs. ~~SIBs~~”
- Page 5, 1<sup>st</sup> paragraph; “...is due to population change, economic activities, VMT ~~VMP~~ or other reasons.”
- Page 7, 4<sup>th</sup> paragraph; “...when Spare the Air day began and ~~the~~ one thought behind it...”

**Committee Action:** Council Member Holtzclaw moved to approve the Minutes of May 15, 2008, as amended; seconded by Council Member Zamora; carried unanimously without objection.

## **Committee Reports**

### **2. Executive Committee Meeting of May 15, 2008**

Vice Chairperson Brazil reported that at the Executive Committee meeting of May 15, 2008, members spoke about the last Board meeting where Dr. Bedsworth was supportive of a work plan for indoor air quality and he also reported that the A & WMA Conference highlights were discussed.

### **3. Technical Committee Meeting of June 9, 2008**

Committee Chair Kurucz reported on Dr. Duffy's presentation on global warming, stating temperature changes were reviewed which found more warming in winter months and less in summer months. Studies show more warming of nighttime minimums marking key summer daytime highs. Climate models cannot presently reproduce well key daytime maximums.

The decreased amount of snow is due to warming and not to precipitation. We see greater temperature gradients due to inland warming which drives coastal cooling. Models indicate that warming is likely to get much worse when viewed on a statewide scale. Bay Area and California trends are similar from 1949 to present and there is greater radiant heating and not more extreme temperatures. Also discussed were 4 area studies, 3 of which showed warming trends and one that did not. The course-scale global models do not include all of the drivers or forcing factors that effect regional scale climate. Some of those are land use change, which includes irrigation and urbanization. In California, irrigation is a very significant driver of regional climate and actually a cooling influence. The other factor that is a cooling is aerosols. Their effects are not well understood and not represented in the global scale models, and agricultural aerosols are not represented at all in the Central Valley. Another factor not in the model is the snow albedo feedback, which has an amplifying effect on warming wherein the loss of snow itself creates warming, and in the course-scale models, there is no snow.

### **4. Public Health Committee Meeting of June 9, 2008**

Committee Chair Zamora reported that the meeting focused on Regulation 6, Rule 3, Wood-Burning Devices. Committee Member Weiner and he testified before the Board of Directors at its July 9, 2008 meeting.

### **5. Air Quality Planning Committee Meeting of June 16, 2008**

Vice Chairperson Brazil reported that Theresa Rommell, Senior Planner/Analyst from Metropolitan Transportation Commission (MTC) and staff from San Francisco Metropolitan Transportation Authority (SFMTA) provided the Committee with a presentation on the current state and future projections of regional transit funding. A revenue panel was convened by the Mayor to study ways to fund Muni and review a zonal fare, and fare free scenarios. David Wiley of the Air District provided a presentation and information on motor vehicle registration fees received by the Air District from surcharges, sources of which are dictated by legislation include \$4 for AB 434, Transportation Fund for Clean Air and \$2 for AB 923, the Mobile Source Incentive Fund. The Committee also discussed the need for a HOT lane policy, the need for congestion pricing to wrap into how the Air District could fund those projects, and a

recommendation from the Committee to support congestion pricing for the Council at their September meeting.

## **PRESENTATION**

### 6. Consideration and Approval of Draft Resolution on Indoor Air Quality.

Committee Member Zamora briefly discussed the background on work to date, regulations and data on indoor air quality, and the purpose of bringing the information to staff and to the Advisory Council. The resolution is intended to be a resource document for Air District staff, state, federal and other agencies. For example, if a call was received on asthma, one could review the appendices and identify a resource to refer to. He noted the document would need to be updated from time to time. Committee members thanked Mr. Zamora for the Committee's work.

Committee Member Glueck questioned how someone could properly screen an indoor air quality or environmental issue versus a true health issue. Committee Member Zamora believed the question was extremely complex and certain health and environmental issues would need to be identified and eliminated to get to the source of the problem, and Committee Member Kmucha agreed the matter was complex in that everyone has their own unique sensitivities, daily exposures, and personal medical history.

Vice Chair Brazil referred to the Recommendation section and he confirmed coordination was also being done with local health departments and the Air District. Committee Member Weiner and other members voiced the importance for resource information to be updated on a regular basis.

**Committee Action:** Council Member Altshuler moved to approve the draft Resolution on Indoor Air Quality and forward it to the Board of Directors; seconded by Council Member Weiner; carried unanimously without objection.

Mr. Broadbent requested Item 8 be taken out of order.

## **AIR DISTRICT OVERVIEW**

### 8. Report of the Executive Officer/APCO

*Mr. Broadbent provided an update on pending and planned Air District activities, policies and initiatives.*

Mr. Broadbent thanked those members who attended the A & WMA Conference in Portland. He said that the Air District is beginning its new budget cycle and monitoring its resources. He also discussed the wood smoke regulation which had just been adopted by the Board of Directors, and he thanked the Advisory Council for their support. He briefly discussed the Port of Oakland's and other port's efforts on the Green Port Initiative, the truck retrofit program, infrastructure bond monies acquired by the Air District, and costs and technical challenges with devices for short haul trucks. He said the Board of Directors has asked the Climate Protection Committee to formulate a work plan that speaks on how the Air District relates to AB32, said the Bay area is

experiencing a very bad summer with 6 violations of air quality and 10 violations over the state standard, and Ms. Roggenkamp noted that today and tomorrow were Spare the Air Days.

Committee Members discussed fires and their impact on ozone, heavy duty trucks outlawed on I-580, trucks entering and leaving the Port of Oakland and their schedule, retrofit/replacement of trucks, incentivizing cleaner trucks and CARB's consideration of an on-road truck rule in October/November. Mr. Broadbent suggested inviting Mr. Richard Sinkoff to a future meeting in order to discuss the Port of Oakland's Maritime Air Quality Improvement Plan.

## **7. Update on CARE Program**

Dr. Phil Martien provided an update on the CARE Program, the West Oakland Health Risk Assessment and implementation of the CARE Mitigation Action Plan. He stated that staff compiled emissions of toxic air contaminants throughout the Bay Area in 2005, discussed the Air District's participation in the West Oakland HRA and presented key findings:

- The West Oakland community is exposed to diesel PM concentrations that are almost three times the estimated background diesel PM concentrations in the Bay Area.
- The estimated lifetime potential cancer risk for residents of West Oakland from exposure to diesel PM emissions is about 1200 excess cancers per million.
- On-road heavy-duty trucks result in the largest contribution to the overall potential cancer risks levels in the West Oakland community, followed (in order) by ships, harbor craft, locomotives, and cargo handling equipment.

Dr. Martien discussed potential cancer risks from Port emissions and non-cancer health impacts from Port diesel PM emissions, CARB findings on risk reduction, the Air District's roles and commitments in West Oakland. He said the CARE Mitigation Action Plan focuses risk reduction activities where they are most needed. It is based on maps of toxic air emissions and sensitive populations. Six impacted communities were identified. The Action Plan includes grant funds, outreach efforts, liaison with local health departments, land use guidance and the Green Ports Initiative.

He discussed incentive funding which includes: \$11 million for replacement and retrofit of heavy-duty diesel engines, \$35 million in Goods Movement Bond (main), \$4 million in Goods Movement Bond (early action), \$11 million in Mobile Source Incentive Fund, \$16 million in TFCA Regional funds, and \$10 million in TFCA County Program Manager funds. He discussed land use guidance, stating that cities and counties have authority over local land-use decisions but that land use guidance will help evaluate health impacts resulting from new development projects and from existing toxic sources, determine when mitigation is required, assist with general plans and project-specific analysis, and provide tools for more informed local decision-making. He said next steps include work with ARB to complete the final West Oakland HRA, conduct truck survey and measurement study, conduct sub-regional and regional modeling, continue to implement the CARE Mitigation Action Plan, and continue dialog with communities.

Committee Members discussed with Dr. Martien the following:

- The number of respiratory cases has risen;

- How ships at ports operate, unload, transfer loads, and the electrification process;
- The existence of possible coding and calculating errors by the Office of Statewide Health Planning and Development (OSHPD) staff which is done by retrospective chart review after the patient has already been discharged and usually by people who are not medically trained, as well as whether data is counted and included for those who go to emergency rooms and receive treatment, and the need for some sort of standardization.
- Modeling and measurement studies which have been done by CARB;
- The Air District's participation in West Oakland HRA;
- The fact that automobile traffic impacts are not factored into the West Oakland HRA which would increase PM emissions;
- Whether the CARE Program was advocating alternative technology and transportation alternatives and looking to streamline efforts of barge distribution of containers to outlining areas to alleviate on-road truck activities. It was noted that Port facilities were not all equipped to handle large volumes of containers;
- The study done by FedEx which tracks data on routes, miles, time delays, and efficiencies for their truck movements;
- Data should be collected based on cumulative or high episodes for non-cancer health impacts rather than averages;
- Sub-regional modeling for the 4 other ports in the Bay Area, focus on review of local scale modeling, and focus on risk reduction activities where they are most needed which include Richmond, Concord, West Oakland, Eastern San Francisco, East Oakland/San Leandro and San Jose;
- Tom Cahill's study on the impacts of landscaping along highways which shows that it can reduce particulate matter. A possible mitigation measure proposed at the State level was to study the effects of vegetation on reducing particles next to housing, and local funding for street tree planting programs;
- Risk from diesel particulate matter and its spatially averaged numbers, benefits of reductions for West Oakland once the on-road truck regulation is adopted;
- Rates of cancers, heart attacks, premature deaths;
- Other strategies used for drayage trucks, the school bus replacement program and approval of a consulting firm to provide outreach and assistance with the application process.

### **OTHER BUSINESS:**

#### **9. Council Member Comments/Other Business**

Committee Members individually reported on their participation at the A & WMA Conference in Portland, their preferred sessions and keynote speakers, Portland's transportation system, Portland's use of streetcars and bicycles.

Committee Members suggested that Professor Schneider from Stanford be contacted to speak at its September or October meeting and that Mr. Sinkoff, Director of Environmental Planning, be contacted to provide a presentation on the Port's MAQIP.

Committee Member Kurucz reported that the Bureau of Automotive Repair Program reimburses up to \$1,000 to purchasers of new, non-polluting vehicles.

**10. Time and Place of Next Meeting:** The next meeting will be held on Wednesday, September 10, 2008, to be held at 939 Ellis Street, San Francisco, CA 94109.

**11. Adjournment:** The meeting adjourned at 4:40 p.m.

*/s/ Lisa Harper*  
Lisa Harper  
Clerk of the Boards

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

**APPROVED MINUTES**

Advisory Council Technical Committee  
9:30 a.m., Monday, August 4, 2008

- 1. Call to Order – Roll Call.** Chairperson, Kraig Kurucz called the meeting to order at 9:35 a.m.

Present: Sam Altshuler, P.E., Robert Bornstein, Ph.D., Fred Glueck, John Holtzclaw, Ph.D., Kraig Kurucz, Chairperson.

Absent: Louise Bedsworth, Ph.D.

- 2. Public Comment Period.** There were no public comments.

- 3. Approval of Minutes of June 9, 2008:**

Dr. Holtzclaw made a motion to approve the minutes. The Committee submitted minor edits to the minutes, discussed the need for speakers to provide a summary of their comments, and suggested that future minutes be summarized to a minimum of 3-4 pages.

Chairperson Kurucz commented that Dr. Duffy did not review the minutes and suggested he be forwarded the draft minutes to edit, for staff to make editorial amendments and resubmit the minutes for approval at the next Technical Committee meeting in October.

- 4. Committee Member Comments/Other Business:**

Mr. Glueck questioned whether or not the Air District could, over the next few months, monitor the differences in air quality due to changes in China during the Olympics and how it affects background here. Gary Kendall, Director of Technical Services, stated that the Air District performs air monitoring and the data are archived and available for such analysis. The Committee then briefly discussed tracking, whether or not background is affected, wind direction and blips up or down which may be caused by meteorology or emissions.

Chairperson Kurucz reported that for the Committee's next meeting, Dr. Schneider has been contacted and is interested in providing a presentation to the Committee. He stated that Board of Directors' Vice Chair Torliatt had expressed interest in Dr. Schneider's presentation. Chair Kurucz asked whether a joint meeting would be possible.

After brief discussion, there was general agreement by the Committee that staff would discuss scheduling of the presentation with Chair Hill for the October 15<sup>th</sup> Board of Directors meeting, Chairperson Kurucz would contact and confirm Dr. Schneider's availability for October 15<sup>th</sup> (with an alternate date of October 20, 2008), and that the presentation focus on the Bay Area, what are the upcoming impacts, and what could the Air District do in taking a leadership role in adaptation and mitigation.



**5. Discussion of Implications of Climate Change; Synergies and Conflicts of Climate Change on Bay Area Air Quality:** *The Committee discussed the implications of climate change; synergies and conflicts of climate change on Bay Area air quality.*

Mr. Altshuler communicated that he believed there was a conflict between controlling wood smoke and using renewable energy, was surprised the Rule came down hard on perceived cleaner stoves and not as hard on fireplaces and the lack of the argument made for renewable energy. Ms. Roggenkamp, Deputy APCO, explained that this was addressed in the environmental document for the new Rule.

Chairperson Kurucz referred to the format of a recommendation of the Technical Committee and discussed with members recommended actions and important points to identify as “whereas” clauses.

Dr. Bornstein asked staff to identify the last Air District document which would state the position of the Board of Directors and the Air District having to do with climate change in air quality. Ms. Roggenkamp responded that this topic was discussed by the Board at their January Retreat; climate protection is one of the key initiatives of the Air District and since that time the fee schedule for greenhouse gases had been adopted. Staff has also discussed with the Climate Protection Committee about preparing a Work Program for climate protection, which she said was in the planning stages.

Dr. Bornstein recommended that the Air District’s modeling efforts be state-of-the-art and all-encompassing in order to model ozone, PM, climate change and CARE with an integrated set of models, and that the District ensure their modeling group has the tools to carry out this kind of modeling. Ms. Roggenkamp reported that the Air District recently embarked upon a multi-pollutant plan, and she agreed it is important to think about multiple pollutants at the same time and what this means for PM, toxics or greenhouse gases. She said staff held one public workshop to discuss this idea, there was support from those in attendance, and she suggested this as an appropriate avenue. Staff is looking at how to analyze different kinds of control measures, look at benefits and potential conflicts among pollutants which is in concert with what the Committee is suggesting.

Dr. Bornstein reiterated the need to study the local impacts, local observations and conduct modeling to know past conditions, project future conditions, and how to adapt and mitigate.

Chairperson Kurucz suggested the Committee discuss and synthesize the next item in order to develop a recommendation to the Advisory Council.

**6. Discussion of Presentations made to the Advisory Council Technical Committee:**

1. *Update on PM Inventory Development, Modeling and Data Analysis (presented on February 11, 2008 by Mr. Saffet Tanrikulu and Mr. David Fairley);*
2. *Consequences of Changes in Temperature, Inflow Boundary Conditions, and Local Emissions, on Air Quality in Central California (presented on April 7, 2008 by Professor Rob Harley);*
3. *Past and Future Temperature World-Wide, in California, and the Bay Area (presented on June 9, 2008 by Dr. Philip B. Duffy).*

Chairperson Kurucz pointed out the importance of formulating a good summary of the presentations and suggested beginning with “whereas” clauses, which would then lead to recommendations. He suggested one of the actions to recommend be modeling; both multi-pollutant and a regional version of the global models.

Dr. Bornstein said the original global models diverged and people did not believe them until they were able to simulate what happened in the last hundred years. Then they started to believe simulations out for another hundred years. He said if the Committee is recommending some sort of regional modeling, a component of this should be able to reproduce what has happened over the last 40 years and then look at projections out for the next 40 years in a changing climate.

He suggested that an ad-hoc committee be considered, comprised of experts from Livermore Laboratories, Stanford University or other research institutes to meet and form a pool of knowledge on climate change and its impact on the local area. Ms. Roggenkamp noted that there has been some consideration among staff about holding a one-day symposia to discuss potential conflicts as we think about all pollutants at once and representatives of this sort would be invited. She agreed that possibly one of the recommendations out of the symposia could be for representatives to continue to meet.

The Committee discussed at length the following phrases as input to the resolution:

WHEREAS, problem/solution of climate change and regional pollution are inter-related;

WHEREAS, EPA modeling is now becoming multi-scale and multi-pollutant;

WHEREAS, implications of renewable energy involve concentration, energy, conservation, and health;

WHEREAS, climate change can overwhelm and cause unintended consequences and trade-offs (e.g. aerosols and climate, fires, coastal cooling, snowfall, flooding);

WHEREAS, regional reactions to global climate change are varied;

WHEREAS, land use planning strategies impact local climate change;

WHEREAS, Bay Area has unique concentration of analytical capabilities, experts and innovators;

WHEREAS, prediction models need validation on past changes;

WHEREAS, Bay Area has existing observational networks;

WHEREAS, the Bay Area has served as a model in air quality strategies;

THEREFORE, the Technical Committee recommends that the Air District include climate change issues in the Air District’s multi-pollutant, multi-scale air quality management planning process, including:

- Continuing to apply and validate the best available multi-scale and multi-pollutant models to local linked air-quality and climate change issues.

Dr. Bornstein also suggested the clauses reference the individual person who gave the Committee the information/ideas.

Mr. Altshuler recommended that the Air District consider the position of a Climate Protection Officer, similar to the newly approved Public Health Officer, in order to raise the status of the Committee's position. Ms. Roggenkamp reported that employee, Ana Sandoval has been promoted to Senior Policy Advisor in the Executive Office and one of her roles will be working on climate protection issues in a policy-oriented manner and how the Air District works with outside organizations. She also stressed that Planning Division staff currently focus on climate protection, and part of the concept over time is that this be integrated throughout the Air District.

Dr. Bornstein suggested that observations be used to understand what the local climate changes are and that this be a separate recommendation. Chairperson Kurucz stated that this needed to be made in context and not used as a reason to avoid action on a local basis.

In closing, Chair Kurucz expressed thanks to Committee members and agreed to work with two other members of the Committee to wordsmith the draft resolution and bring it back to the full Committee for finalization and submission to the Advisory Council.

**7. Time and Place of Next Meeting:** At the call of the Chair.

**8. Adjournment.** 11:54 a.m.

Lisa Harper  
Clerk of the Boards

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

**DRAFT MINUTES**

Air Quality Planning Committee  
9:30 a.m., Monday, August 11, 2008

**Call to Order:** Chairperson Drennen called the meeting to order at 9:33 a.m.

**Roll Call:** Ken Blonski, Irvin Dawid, John Holtzclaw, Ph.D., Robert Huang, Ph.D., Kendal Oku and Emily Drennen, Chairperson.

**Absent:** Harold Brazil, Irvin Dawid, William Hanna, Kraig Kurucz

**Public Comment Period.** There were no public comments.

**Approval of Minutes of June 16, 2008:** Chair Drennen deferred the approval of the minutes to the end of the meeting or until there was a quorum established of the Committee.

**Presentation by ClimatePlan on the Air Resources Board AB 32 Climate Change Draft Scoping Plan**

Chair Drennen reported that ClimatePlan representatives could not be present to provide a presentation, and she acknowledged receipt of materials which had been forwarded to her for distribution to the Committee.

**Overview of Air Resources Board AB 32 Climate Change Draft Scoping Plan and Discussion and Consideration of Policy Recommendation Regarding AB 32 Climate Change Draft Scoping Plan**

Environmental Planner Sigalle Michael gave a PowerPoint presentation and overview of the Draft Scoping Plan, noting that the draft plan outlines approaches for implementing AB 32. Key elements of the Plan include a cap and trade program to begin in 2012, expanding energy efficiency, increasing a renewable portfolio standard to 33%, and implementing new and existing regulations for vehicle standards and low carbon fuel standard. Transportation measures include: Pavley I & II, low carbon fuel standard, vehicle efficiency, goods movement, high speed rail, local government actions and regional targets, and other sectors such as high GWP gases, forests, recycling and agriculture. Additional measures include vehicle feebates, congestion pricing, pay-as-you-drive insurance, industrial source measures and indirect source rules for new development.

Ms. Michael discussed potential Air District roles in enforcement, tracking relationships between GHG reductions and toxic and criteria pollutants, permitting of new equipment and technologies, collaborating on outreach and education, assisting local government with

Climate Action Plans, assisting in developing and tracking regional GHG reduction targets, and providing CEQA guidance.

She presented the scoping plan schedule as follows:

- June 20, 2008 – Draft Scoping Plan released for public review;
- July 22, 2008 – Technical Appendices released for public review;
- October 2008 – Proposed Scoping Plan to be released;
- November 2008 – ARB Board to consider adoption of Scoping Plan;
- 2009-2012 – ARB to develop and adopt rules for plan implementation.

Chair Drennen reported a number of local and regional agencies are preparing response letters to ARB on the Draft Scoping Plan and she confirmed with Deputy APCO Jean Roggenkamp that a response by the Air District was due by Friday.

Dr. Huang questioned and confirmed with Ms. Roggenkamp that the Air District has the resources to carry out provisions of the draft plan and has been integrating greenhouse gas reduction in its existing work and programs.

Dr. Holtzclaw agreed that the ARB seems to understand and is committed with the land use nexus and design which will result in miles traveled and information on trips; however, he believed that the draft plan ignored some of this. Ms. Roggenkamp noted that transportation and fuel related issues were new for the ARB, but said they recognize there is a need and are waiting to choose a direction until feedback is received.

Mr. Blonski questioned population assumptions in the Draft Plan and he confirmed with Ms. Roggenkamp that population growth is taken into consideration and information is identified on a “per capita” basis.

Mr. Blonski referred to the overview of measures and forests, stating there is a build-up of growth and vegetation; a number of studies have looked at how California deals with wildfires and where we build, but it has been proven that if you keep fire out of these ecosystems, it will return. He said this year out of a total of 120 million acres, approximately 1 million acres had been burned, and he pondered how minimizing damage from wildfire through vegetation management would play out.

Dr. Holtzclaw questioned whether or not there have there been studies of the contribution to global warming of wildfires compared to other contributions, and Mr. Blonski said there are a number of economists looking at it, but he was not up on the studies and would need to research this further. He said interestingly, particulate matter is viewed as a fumigant, and with inversions it can be a contributor of forest health.

Dr. Holtzclaw said it seems to be the location of housing that guides what we protect and do not protect. Mr. Blonski agreed and said people are being allowed to build in areas where it does not make sense in relationship to fires. He noted it is difficult to get cities and counties to limit development and believed people focus on structural protection versus resource protection.

Chair Drennen questioned the reference of \$5 million identified in Table II of the Scoping Plan, noting that breakdown of monies would be as follows: Transportation at 38%; electricity at 23%; industry at 20%; commercial building at 9%, and agricultural at 6%, and other as a very small amount. Ms. Roggenkamp clarified that under cap and trade, sectors include transportation fuels and not fuels used already in cars, and monies would support additional measures to regulations already in place. She believed land use and transportation were strong components of the Draft Plan.

Chair Drennen discussed the need to include and focus on land use and transportation strategies in the Committee's recommendation, noted ClimatePlan's comments relating to reduction targets being too low to spur meaningful change, and she said omitted from the plan were public transportation and congestion relief programs.

Mr. Blonski said bus and train ridership was at an all-time high and he believed this would be an excellent vehicle to weigh in on ridership, such as Caltrain and the San Joaquin Valley. He is dismayed that the United States is the only industrialized nation that does not have high speed rail or a rail network, and except for high speed rail, the Draft Plan does not fully address this.

Dr. Huang believed the Air District could accomplish very little without the participation from its local cities and confirmed with Ms. Roggenkamp that regional agency staff were also collaborating together to arrive at a more comprehensive plan.

Dr. Holtzclaw suggested considering a new revenue source that rewards cities and counties that do the best job, such as an emissions tax that goes back to the cities on their per capita reductions. Mr. Blonski voiced concern in a per capita allocation, as Contra Costa County had significantly less production of greenhouse gases than Sonoma or Marin Counties due to industrial lands and the existence of refineries. Chair Drennen suggested those purchasing high-emitting vehicles could be taxed, and proceeds from the tax could go back to users of non-polluting or low emission vehicles.

Mr. Hilken pointed out the collaborative efforts of the Joint Policy Committee, stating Air District staff and regional agency representatives meet and focus on climate change.

Chair Drennen suggested the Committee work on formulating a list of recommended principles to be passed on as a recommendation to the Advisory Council and thereafter, to the Board of Directors, in response to the Draft AB 32 Scoping Plan. The Committee discussed bullet points from documents received from ClimatePlan, agreed with the need for transportation and land use issues to be included in the recommended set of principles, and reviewed presentations made to the Committee over the last year.

## **BREAK**

The Committee took a break at 11:14 a.m. and reconvened the regular meeting at 11:35 a.m.

Chair Drennen and the Committee agreed to the following eight principles to be forwarded as a recommendation to the Advisory Council, and thereafter, to the Board of Directors in their response to comments on the Draft AB 32 Scoping Plan:

1. Climate protection actions can and should reinforce current efforts to reduce criteria and toxic air contaminants. Other benefits include lower heating and cooling costs, reduced water use and improvements in energy efficiency and public health;
2. Given that the transportation sector contributes approximately 40% of all global warming emissions in California, the Scoping Plan needs to include more aggressive emission reduction targets for land use and transportation. The plan should encourage efficient, non-auto dependent growth and compact development close to resources, jobs and transit;
3. By taking a strong leadership role now, California will realize compounded and co-occurring benefits from future land use and transportation planning undertaken now. Actions not taken will cost all Californians more in the future;
4. Given that bus and train ridership is at an all-time high in California and that transit agencies are chronically underfunded, the Scoping Plan needs to address crucial transit investments and promote transportation efficiency to give Californians better transportation options, including biking and walking;
5. The California Air Resources Board (CARB) should set firm targets for regions but authorize regions and localities to choose from a flexible set of policy tools to achieve the targets. Targets need to be set using a transparent, justifiable methodology, and once set progress should be measured in the same process and reviewed in shorter timeframes in order for it to be consistent over the years;
6. The Air District supports the adoption of a series of key policy tools currently under consideration, including the Indirect Source Rule, Pay-As-You Drive Insurance, Congestion Pricing and incentive programs. Other innovative measures could include alternative parking management practices (e.g. the "SFPark Program), speed reduction measures and new carbon fees to assist and reward jurisdictions successful in meeting planned targets;
7. The plan should make it a top priority to invest in and sustain public transportation and programs to improve transportation efficiency and reduce congestion. In many cases, the state, regions, and local agencies can simply redirect funds they are already going to spend. For instance, the statewide plan should encourage metropolitan planning organizations to re-examine committed funds in their long-term transportation plans;
8. Cities, counties and regions should be given incentives to develop in less fire-prone areas, manage vegetation and conserve forests and agriculture in order to sequester carbon and improve air quality.

**Action:** Mr. Blonski made a motion to approve and recommend that the eight principles be forwarded for consideration to the Advisory Council, and thereafter onto the Board of Directors, and advocate for their inclusion in the CARB Draft Scoping Plan; Dr. Holtzclaw seconded the motion. The motion was approved unanimously.

**Approval of Minutes of June 16, 2008:** Dr. Holtzclaw moved to approve the minutes of June 16, 2008; Mr. Oku seconded the motion. The minutes were approved unanimously.

**Discussion and Consideration of Agenda for Next Meeting**

Chair Drennen asked members to submit questions and comments on congestion pricing for the next meeting on October 2, 2008.

Dr. Huang requested a professor from UC Davis who is an expert on Environmental Justice speak at the next Committee meeting, and he agreed to send the Chair the professor's contact information.

Dr. Holtzclaw requested the Clerk poll for the next meeting to be held October 16, 2008, stating he would be on vacation until October 10, 2008.

**Time and Place of Next Meeting:** 9:30 a.m., Thursday, October 16, 2008 – 939 Ellis Street, San Francisco, CA 94109.

**Adjournment:** The Committee adjourned at 12:32 p.m.

*/s/ Lisa Harper*  
Clerk of the Boards



Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
(415) 749-5000

## **APPROVED MINUTES**

Advisory Council Regular Meeting  
10:00 a.m., Wednesday, September 10, 2008

### **Call To Order**

Opening Comment: Chairperson Bedsworth called the meeting to order at 10:05 a.m.

Roll Call: Susan Adams, Sam Altshuler, P.E., Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, Harold Brazil, Irwin Dawid, Emily Drennen, Fred Glueck, John Holtzclaw, Ph.D., Robert T.P. Huang, Ph.D., Kraig Kurucz, Karen Licavoli Farnkopf, MPH, Kendal Oku, Virginia Smyly, Linda Weiner and Brian Zamora.

Absent: William Hanna and Steven T. Kmucha.

**Public Comment Period** – There were no public comments.

### **Consent Calendar**

1. Approval of Minutes of July 9, 2008

- Council Member Kurucz requested minor edits be made to the Technical Committee report.

**Committee Action:** Council Member Holtzclaw moved to approve the Minutes of July 9, 2008, as amended; seconded by Council Member Zamora; abstained by Mr. Dawid as he was not in attendance for the July 9<sup>th</sup> meeting; carried unanimously without objection.

### **Committee Reports**

2. **Technical Committee Meeting of August 4, 2008**

Committee Chair Kurucz reported that the Committee had a discussion on presentations received from speakers over the past year. Speakers included Saffet Tanrikulu, David Fairley, both from the Air District, informing the Committee of the data analysis conducted on local pollution and particulate matter. In addition, Professor Rob Harley addressed the Committee on the consequences of changes in temperature, inflow boundary conditions, local emissions on air quality and a presentation from Dr. Phil Duffy on past and future temperature worldwide. Information from these presentations has been synthesized and the Committee is now working

towards a recommendation to the full Council. Mr. Kurucz reviewed the Committee's discussion on climate change and regional pollution. Inter-related subjects discussed include: regional reactions to global climate change; implications of renewable energy involving energy conservation and health; and land use planning strategies. Mr. Kurucz continued stating that the Air District should include climate change issues in its multi-pollutant, multi-scale air quality management planning process, including applying and validating the best available multi-scale, multi-pollutant models to local linkages between air quality and climate change. It was also requested that the Air District stay current and get the best tools available for experts to use in their air quality planning efforts in proposing new regulations.

The Committee discussed whether the Air District should have a Climate Protection Officer, which will be revisited at a future meeting. Mr. Kurucz concluded his reported.

Chairperson Bedsworth stated that Ms. Drennen would provide the Air Quality Planning Committee report with recommendations to AB32 Draft Scoping Plan.

### **3. Air Quality Planning Committee Meeting of August 11, 2008**

Committee Chair Drennen reported that for agenda planning purposes, October 2<sup>nd</sup> or October 16<sup>th</sup>, will be considered as potential dates for the next Air Quality Planning Committee meeting. The topic will include High Occupancy Toll Lanes (HOT Lanes) and congestion pricing policies.

Chair Drennen continued with AB32, stating that at the August 11<sup>th</sup> meeting the Committee decided to tackle this issue due to time sensitivity. Ms. Drennen provided the Council with a brief overview of AB32, stating that the goal of AB 32 is to reduce greenhouse gas emission to 1990 levels by 2020. Ms. Drennen stated that transportation provides the largest amount of emissions of any sector. The California Air Resources Board (CARB) has put together a draft scoping plan. Chair Drennen stated that the plan leaves out some general ideas of measures that might be implemented in the future, to meet the goal of 1990 levels. Ms. Drennen noted that Air District staff provided the Committee with a presentation on AB32 and its implementation plan; in addition the Committee reviewed information materials from a group called Climate Plan. Chair Drennen continued that recommendations from the Air Quality Planning Committee would then to go the Board of Directors' Executive Committee; and if approved would move to the Board of Directors and then to CARB for comment.

In addition, Chair Drennen noted that Air District staff worked on a comment letter. Chair Drennen requested that Ms. Roggenkamp provide the Committee with a summary. Ms. Roggenkamp stated the comment letter focuses primarily on two main aspects of the Scoping Plan; 1) how the Scoping Plan treats stationary sources, which is historically the Air District's regulatory purview for greenhouse gases and climate protection; AB32 provides this authority to ARB, as there is a significant need for coordination on stationary source regulations; and 2) The cap and trade program that is being proposed, there is not much detail about the cap and trade program in the Scoping Plan, so there were several issues raised in particular, how the cap and trade program would be designed in order to make sure it is set up in a way that would not adversely affect the commercial industry. There are also measures that address stationary sources that were in a category that called for further evaluation. The Air District felt that those should be brought forward into the recommended strategies for refineries, cement plants, dock plants and others.

The other topics that the Advisory Council Air Quality Planning Committee addressed in its proposed comments were the linkage between land use, transportation, air quality and greenhouse gases.

Council Member Drennen commented that part of the reason for taking on this issue; is because many felt the Draft Scoping Plan does a pretty good job of looking at fuels and vehicle efficiency, but it leaves the other part nebulous and not completely fleshed out. Council Member Drennen thanked staff for implementing some of the Committee's questions into the letter. Council Member Drennen continued, providing the Committee with an overview of the recommendations.

Council Member Weiner commented that the memo seems to focus on transportation land use, which is fine because the Air District deals with air quality, she was not sure it should be under the same category of cap and trade. In addition, Council Member Weiner stated that whatever measures are taken whether it be cap and trade, or regulatory that they do not increase hot spots in those areas that include multiple sources of pollution; as that is an issue that all are concerned about.

Ms. Roggenkamp outlined the timeframe for document submittal to the Air Resources Board, as the next Executive Committee of the Board of Directors will be held on September 29, 2008. Assuming the Council agrees to move items to the Executive Committee, that would be September 29, 2008; Board of Directors meeting is October 1, 2008 and the Proposed Scoping Plan will be released on October 3, 2008. Ms. Roggenkamp continued stating that CARB is expected to take on this issue at their November 20, 2008 Board Meeting.

After a lengthy discussion Committee members provided their recommendations on the AB 32 Draft Scoping Plan comment letter.

**Committee Action:** Council Member Altshuler moved to approve the recommended changes to the proposed comments to CARB's Draft AB 32 Scoping Plan and forwarding to the Executive Committee for Board of Director approval; seconded by Council Member Holtzclaw; carried unanimously without objection.

## **PRESENTATION**

### 4. Transportation 2035: Change in Motion

Chairperson Bedsworth introduced Ms. Ursula Vogel.

Ursula Vogel, Metropolitan Transportation Commission Public Information Officer, provided an overview and update on MTC's long-range regional transportation plan: Transportation 2035: Change in Motion.

Ms. Vogel presented MTC's RTP Transportation 2035 and addressed the financially constrained investment plan. Ms. Vogel noted that the total Plan revenue amount over the next 25 years is \$223 billion. Transportation funds equal about 90% or \$191 billion. Ms. Vogel stated that MTC looked into revisiting its commitments as asked, but determined that since most of the projects

are mandates or have already had substantial investments made in them, MTC would not uncommit any funds as part of this plan.

Ms. Vogel continued that the revenue is dispersed with:

48% Local - funds come from sales taxes, transit fares, and county sales taxes.

14% Regional – funds come from bridge tolls.

20% State – funds come from gas taxes.

12% Federal

6% Anticipated/Unspecified

Efficiency requests include:

- Lifeline - \$0.4 million;
- Bike - \$1.0 million;
- Climate - \$0.4 million;
- Planning - \$0.3 million;
- TLC - \$2.2 million; and
- FPI - \$1.6 million

MTC is in the process of working on eliminating shortfalls over the upcoming months.

Ms. Vogel continued the presentation showing existing, funded and proposed Freeway Performance Ramp Metering, which was launched in 2007. The Commission is eager to pursue HOT lanes and recognizes that goal can be better met by implement to the program regionally.

Ms Vogel continued her presentation by describing HOT Network Principles that include:

1. Collaboration and cooperation – CMAs, Caltrans, CHP, BATA
2. Corridor-based focus and implementation – user orientation
3. Reinvestment within the corridor – capital and operating
4. Corridor investment plans – guide reinvestment
5. Simple system – consistent design, signage, marketing
6. Toll collection – BATA
7. Financing – could include BATA toll bridge enterprise

Council Member Bramlett requested clarification on whether or not existing HOV lanes are being converted to HOT lanes and asked about taking existing lanes from 101 northbound and converting them directly to a HOT lane. Council Member Bramlett stated that he is extremely surprised and opposed to the continuation of pouring billions of dollars of concrete for these types of projects.

Ms. Vogel continued with the presentation and noted the following:

- Plan Expenditures by Mode - 65% transit and 35% roads;
- Plan Expenditures by Function - 81% maintenance and operations and 19% expansion;
- Plan Expenditures Supporting Focused Growth – 81% maintenance and operations, 12% transit expansion and 7% road expansion;

- Plan Expenditures Supporting Lifeline – 52% transit maintenance and operations, 36% roads and 12% transit expansion; and
- Plan Expenditures Supporting Climate Protection – 81% maintenance and operations, 12% transit expansion and 7% road expansion

Next steps include:

- Identify “Future Actions”, and solicit input from partners and the public through Phase 3 outreach (October/November 2008)
- Conduct environmental assessment (EIR) and transportation/air quality conformity analysis (August-November 2008)
- Release Draft Transportation 2035 Plan & EIR (December 2008)
- Adopt Final Transportation 2035 Plan & EIR (March 2009)

Ms. Vogel concluded her presentation.

Chairperson Bedsworth thanked Ms. Vogel for her presentation.

### **AIR DISTRICT OVERVIEW**

#### 5. Report of the Executive Officer/APCO

*Ms. Roggenkamp provided an update on pending and planned Air District activities, policies and initiatives.*

Ms. Roggenkamp gave an overview of the Summer Ozone Season stating that there were 11 Spare the Air Public Health advisories; 11 exceedances were above the national 8-hour ozone standard; 16 days over the California 8-hour ozone standard; and 9 days over the California one-hour standard. Ms. Roggenkamp continued stating that the season will run through the beginning of October.

Ms. Roggenkamp continued that the Air District is gearing up for the Wintertime STA season, which starts in early November and stated that the Wood Smoke rule was adopted and thanked the Council for its help. The Regulation 6; Rule 3: Wood Smoke Devices is effective November 1, 2008. When there is STA Alert announced the public will be informed that this is not a night when you can burn solid fuels in your fireplace or woodstoves, as there will be extensive outreach. In addition, Ms. Roggenkamp informed the Council that there will be another round of rebates for change-outs to inserts and stoves.

Ms. Roggenkamp said that the state has recommended to EPA that the Bay Area be a non-attainment area for the 35 micrograms per cubic meter Federal 24-hour PM 2.5 standard. EPA has indicated that they plan to accept the states' recommendations that are currently out for public comment and EPA will make determinations of attainment and non-attainment areas by mid December, as the Air District is expected to be designated as a non-attainment area for PM 2.5, 24-hour standard.

Council Member Licavoli-Farnkopf inquired about the criteria for attainment/non attainment designations; Ms. Roggenkamp responded that it is based on a three year average; depending on the pollutant. As an example, Ms. Roggenkamp stated that for the 24-hour PM 2.5 standard, the last three year period indicates that the Air District will be non-attainment.

Ms. Roggenkamp continued that the Air District has conducted a truck count project in the West Oakland area, working with community members through Pacific Institute in the West Oakland Environmental Indicators Project. Truck count data was collected somewhere between 15 and 20 sites in West Oakland. Community members assisted with this project, the collection is completed and being analyzed. This information is relevant to the work of the Air District, Port of Oakland and ARB's work on health risks.

Ms. Roggenkamp concluded that the State Budget has not passed, and that it did not seem that things would particularly affect the Air District's budget, but until the budget is passed the Air District is uncertain.

Council Member Holtzclaw thanked Ms. Roggenkamp for being well informed and for her report.

### **OTHER BUSINESS:**

#### **6. Council Member Comments/Other Business**

Council Member Bornstein stated that he just returned from two days at the 5<sup>th</sup> Annual California Climate Change Conference, sponsored by the California Energy Commission and the conference evolved into a powerful conference with 400+ attendees and 500-600 people participating via webcast.

Dr. Bornstein continued that the images of melting ice caps were dramatic. Most attendees were research and policy individuals. Discussions included climate change and policy, a keynote on transportation, resiliency to climate change and another keynote on the health of ecological systems. That speaker believed we would have to move species so that they can continue to survive, as they are unable to move themselves to regions with the correct climate; in addition the speaker stated that 1/3 of all the species in the world will be extinct. Council Member Bornstein presented a paper on coastal cooling related to per capita energy consumption.

**7. Time and Place of Next Meeting:** The next meeting will be held on Wednesday, November 12, 2008, to be held at 939 Ellis Street, San Francisco, CA 94109.

**8. Adjournment:** The meeting adjourned at 11:55 a.m.

*/s/ Vanessa Johnson*  
Executive Secretary

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109  
(415) 749-5000

**APPROVED MINUTES**

Advisory Council Executive Committee  
Wednesday, September 10, 2008

**1. Call to Order – Roll Call:** Chairperson Louise Bedsworth, Ph.D., called the meeting to order at 9:02 a.m.

**Present:** Louise Bedsworth, Ph.D., Chairperson, Jeffery Bramlett, Emily Drennen, Kraig Kurucz (9:13 a.m.), and Brian Zamora

**Absent:** Harold Brazil

**Also Present:** Sam Altshuler and Fred Glueck

**2. Public Comment Period:** There was none.

**3. Approval of Minutes of May 15, 2008:**

Mr. Glueck provided an edit to be incorporated in the minutes.

**Committee Action:** Ms. Drennen moved approval of the minutes as amended; seconded by Mr. Bramlett; the minutes carried unanimously.

**4. Standing Committee Chair Reports:**

A) Public Health Committee Meeting of June 9, 2008

Mr. Zamora gave the report on behalf of the Public Health Committee, stating that the Committee did not meet on August 13<sup>th</sup>, as there was not a quorum. The next meeting of the Committee is scheduled for October 8, 2008. Mr. Zamora also noted that at the next meeting the Committee will invite Richard Sinkoff from the Port of Oakland or possibly schedule Dr. Iton. Mr. Zamora continued by stating the subject for discussion would be the Air District's CARE Program as it relates to the Port of Oakland.

Chairperson Bedsworth responded to Mr. Zamora stating that there is a possibility that Dr. Iton would be available in November. In addition, Chairperson Bedsworth stated a need for the Health Department and the Air District to work together on CARE and any other issues.

Mr. Zamora concluded his report.

## B) Air Quality Planning Committee Meetings of June 16, 2008 and August 11, 2008

Emily Drennen, Chairperson of the Air Quality Planning Committee gave the Committee report. The Committee received a presentation on the California Air Resource Board's AB 32 Climate Change Draft Scoping Plan. The Draft Scoping Plan was released to the public and open for public comment. Ms Drennen continued, stating that the Committee was able to come up with recommendations on the Draft Scoping Plan which are included on the agenda for the full Council consideration. The Air District staff has responded to the request for comments on the Draft Scoping Plan.

Jean Roggenkamp, Deputy Air Pollution Control Officer, provided the Committee with an overview of the Air District's comments submitted in a letter to the Air Resources Board. Ms. Roggenkamp stated that the Air Resources Board is now working to prepare the Proposed Scoping Plan, based on comments received.

Ms. Roggenkamp gave an overview of AB 32 stating that the bill was passed by the Legislature and signed by the Governor and is a road map on how California will address climate change. The goal is to reach 1990 levels of greenhouse gases in the state by 2020. Ms. Roggenkamp continued that the Executive Order called for 80% below 1990 levels by the year 2050, but AB 32 specifically focuses on the 2020 target. The Scoping Plan is the framework for how the state would propose to meet the 2020 target; it includes the cap and trade program and early action measures for high global warming potential gases such as voluntary measures, energy sector measures, transportation and land use measures.

Ms. Drennen concluded her report.

## C) Technical Committee Meeting of June 9, 2008 and August 4, 2008

Kraig Kurucz reported that on June 9, 2008 Dr. Duffy provided a presentation on global warming. He summarized Dr. Duffy's key points: temperature change is going to continue and worsen; many factors are masking effects of global warming and current models do not take these factors into account; there are no increases in summertime highs, but there is overall warming as evidenced by increased daytime minimums and wintertime temperatures; the decrease in snowcap is due to warming and not due to a decrease in precipitation; and land use and agricultural practices, for example irrigation and aerosols, are important drivers of temperature but are not incorporated into current models. Effects of aerosols are not well understood and agricultural aerosols are not represented in Central Valley models. The snow albedo effect is also not represented.

Mr. Kurucz reported that on August 4, 2008 the Committee discussed the implications of climate change; synergies and conflicts of climate change on Bay Area air quality.

Based on presentations received over the past year, the Committee is developing resolution language focusing on climate change and regional air pollution, multi-scale and multi-



pollutant modeling, the implications of renewable energy and energy conservation as well as public health.

Mr. Kurucz reported that the Committee considered a recommendation for the Air District to hire a Climate Change Officer.

Mr. Kurucz concluded his report.

**5. Chairperson's Report**

Chairperson Bedsworth apologized for not being able to attend the Executive Committee meeting that was held in May, but thanked Harold Brazil for stepping in on her behalf. Chair Bedsworth continued, stating that the Committee will continue its efforts to have Dr. Iton as a speaker at an upcoming meeting.

**6. Committee member Comment/Other Business:**

There were none.

**7. Time and Place of Next Meeting:** 9:00 a.m., Wednesday, November 12, 2008, 939 Ellis Street, San Francisco, CA 94109.

**8. Adjournment:** The meeting adjourned at 9:20 a.m.

*/s/ Vanessa Johnson*  
Executive Secretary

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

**DRAFT MINUTES**

Advisory Council Public Health Committee  
1:30 p.m., Wednesday, October 8, 2008

**1. Call to Order:** Chairperson Zamora called the meeting to order at 1:37 p.m.

**Roll Call:** Brian Zamora, Chairperson; Jeffrey Bramlett, Steven Kmucha, Karen Licavoli-Farnkopf, MPH, Linda Weiner

**Absent:** Cassandra Adams

**Others Present:** Louise Wells Bedsworth, Ph.D. and Virginia Smyly

**2. Public Comment Period:** There were none.

**3. Approval of Minutes of June 9, 2008:** Ms. Licavoli-Farnkopf moved approval of the minutes, seconded by Ms. Weiner, carried unanimously.

**4. Public Health Impacts of Climate Change:** *The Committee received a presentation by Advisory Council Chairperson Louise Wells Bedsworth, Ph.D. on the Public Health Impacts of Climate Change.*

Dr. Bedsworth gave a PowerPoint presentation on the public health impacts of climate change, responding to those impacts, climate change and local health officers, and a summary of findings on a survey conducted of public health officers.

She reported that global impacts of climate change show an increase in global average temperature of 2.5° F to 10.4° F degrees by 2100, a rise in sea level and an increase in frequency and severity of storms and alterations in regional flora and fauna. Models of climate change in California estimate there will be a temperature increase of 3.6° F to 10.8° F by 2100, as well as sea level rise, increase in frequency and severity of extreme events, reduction in snowpack levels which affect water basins, reduction in agricultural yields and quality which affects high value crops, and shifts in natural flora and fauna. She said there is no clear trend for estimates of future precipitation amounts, but there is a shift from snow to rain.

She presented scenarios over a number of different models, stating it is not known what path of emissions will take and how sensitive they will be to the climate once in the atmosphere.

Dr. Bedsworth discussed the sensitivity of each example and how they differ which she stated has to do with how climate will respond. In looking at the coming century, none of the lines (as presented in the graph) stay at or below zero, so there is some amount of change that will occur. Dr. Bedsworth noted that the lines stay much closer together until the middle of the century and

then they spread. This is due to the number of emissions in the atmosphere already and where differences will be seen at the end of the century. She confirmed the scenario presented was representative of business as usual.

Dr. Bedsworth then discussed and presented results of the PPIC survey which was conducted in July 2008. The following questions and results were included in the survey:

*“How serious a threat is global warming to California’s economy and way of life?”* -- 27% believed the threat was somewhat serious; 52% believed the threat was very serious.

*“When will the effects of global warming start to happen?”* -- 64% believed it was already happening; 5% believed it is within a few years; 8% within my lifetime.

Dr. Bedsworth noted public health impacts can be broken into direct impacts: heat-related morbidity and mortality; and indirect impacts: air quality, vector-borne illness, wildfires, climate refugees, and strain on healthcare services.

She presented a chart on climate change and extreme heat projected in heat wave days to the end of the century and larger changes where currently there are not a lot of heat wave days. In addition to extreme heat deaths, she noted there is data showing an increase in mortality with the increase in temperatures over time. Key vulnerabilities are associated with age, social isolation, pre-existing conditions, those mentally disabled, those who are substance abusers, some who will do daring things during heat events, and some studies also cite young children.

Dr. Bedsworth said the study focuses on ozone pollution where the bulk of analysis was taken, and papers actually show the results of different things over time. There is a consistent trend with ozone and climate change because of increases in temperature, biogenic emissions, changing with mixing depths within the atmosphere, boundary changes, and energy demand changes. This trend results in the “Climate Penalty”, which means that additional emission reductions will be needed to meet the same target and there will be an additional health costs as a result.

Dr. Bedsworth presented results from a modeling study of Dr. Rob Harley which looked at the Bay Area, Sacramento and Fresno. They looked toward 2050 and how climate change would affect air quality. The first is a business as usual future which revealed a 10% to 15% reduction in ozone levels by 2050. In looking at climate change/current emissions without reductions, an increase in pollution of 3% to 10% is projected in ozone levels. The final scenario is climate change with future emissions reductions, which finds that a reduction in ozone ranges from a zero to 9% reduction. The study also found that the Bay Area was found to be the most sensitive.

Dr. Bedsworth then discussed other health impacts, as:

- Vector-Borne Illness: She said while most have been eradicated, there has been dengue seen in Texas. However, one of the higher risks of something like this spreading is globally, through travel inside and outside the United States.
- Wildfires: Studies have shown an increase in frequency and extent and the numbers able to escape in contained boundaries.

- Displacement of Affected Populations: There is a possibility for people to be displaced outside of California or the globe.
- Strain on Health Care Services: With an increase of health related impacts comes more strain on emergency rooms, medical staff and health care providers.

Dr. Bedsworth further reported that California can reduce the public health impacts of climate change through mitigation of emission reductions, adaptation through programs designed to respond to and reduce vulnerability in the face of climate change, and she said both are critical elements of climate policy. Regarding adaptation and public health, the front line actors are the local health agencies and air quality planning agencies. Current programs exist to respond to public health risks, such as heat emergency plans, disease tracking programs vector control, and air quality improvement programs, all of which provide a good foundation for adaptation.

Dr. Bedsworth then discussed heat emergency plans, public education programs addressing energy and water reduction, and technical management tools to track disease and plan for drought, noting the PPIC conducted a survey of 61 local health officers on August 29, 2007. Responses came from 34 jurisdictions covering 32 counties and 2 cities, representing just over  $\frac{3}{4}$  of California's population. The survey was completed October 26, 2007 and she presented the following survey questions and results:

*“Is there a threat of global climate change?”* 55% see it as a very serious health risk, 38% see it as somewhat serious, and there were minimal results for responses of “not at all or not too serious”.

*“What is the largest threat from climate change?”* 35% believe it is from extreme heat; 28% from agriculture; 25% from water shortage; 22% from flooding; 18% from wildfires; 9% from human health; 5% from air quality and water quality, which is interesting because the State early on made air quality a big focus of greenhouse gasses' and vehicles.

*“Do you believe some programs are already in place that can aid in adaptation to climate change?”* While 100% responded there are programs for disease tracking, 88% had heat emergency plans and 12% did not. Very few had transportation to cooling centers, which is a factor that has been found to reduce mortality in extreme heat events.

*“Do you feel that your agency has adequate information to respond to public health emergencies in general and to climate-related health emergencies?”* 65% say yes they do, in general; 25% said no, they do not. 29% said they do and 68% said they do not when it is a climate-related health risk.

All surveyed believed it would be very helpful to have information on regional risk assessment, scientific information, Clearinghouse, Statewide health tracking database, guidance from the Department of Public Health, educational programs for agency staff, vulnerability assessment, and guidance from EOS.

*“Do you feel that your agency has adequate resources to respond to climate change?”* 70% said no and 20% said yes. Resources that would be helpful or very helpful included:

Health impact assessment:	97%
Dedicated funding:	93%
Staff with expertise in climate science:	79%
Vulnerability assessments:	65%
State coordination:	42%
Local coordination:	25%

In summary, Dr. Bedsworth said climate change will have direct and indirect impacts on public health; emissions mitigation will affect level of impacts experienced; adaptation will be needed to respond to the public health risks; local health agencies feel that they lack the resources and information to respond to the public health risks posed by climate change.

Ms. Weiner reported that CARB is developing a partnership with Public Health Department. They are revising the health impacts report and the Lung Association is also working with the health departments on land use policies within AB 32, looking at how SMART growth can impact obesity as well as other health related issues. Dr. Bedsworth noted that the larger survey report has come out and looks at adaptation needs, which has more specific recommendations. However, she said the Department of Public Health is not a member of the Climate Action Team which she believes is an important step that needs to be taken.

Chair Zamora questioned and confirmed with Dr. Bedsworth that work was being done across the country; Environmental Defense coordinated efforts with George Mason University and the National Association of Public Health Officials and surveyed a represented sample of health officials around the country with similar questions and results.

Chair Zamora questioned if Dr. Bedsworth could parse out opinions where communities are already hot versus temperate, and she noted there were 34 communities which were very difficult to break down. However, one interesting result was revealed when attainment and non-attainment areas were further broken down. She asked participants if there was a Spare the Air program or if they work with their air districts to publicize the information. People in non-attainment areas were more likely to work with air districts than attainment areas, which was flip-flopped.

Dr. Bedsworth then discussed a study with Ms. Weiner which assessed vulnerability assessments and extreme heat, and Chair Zamora suggested that further education and outreach was needed to promote cooling centers, especially for vulnerable populations.

Ms. Smyly briefly discussed the Katrina event and transportation and early warning systems not put into place. She suggested a registry be developed as opposed to communication through telephonic alert, as seniors sometimes do not have telephones, pagers, or cell phones. Dr. Bedsworth then discussed San Diego County's 9-1-1 system for those vulnerable which could be implemented and activated during extreme emergencies.

Committee members thanked Dr. Bedsworth for her informative presentation.

## **5. Committee Member Comments/Other Business - None**

6. **Time and place of next meeting:** 1:30 p.m., Wednesday, December 10, 2008, 939 Ellis Street, San Francisco, CA 94109.
7. **Adjournment:** The meeting adjourned at 2:23 p.m.

*/s/Lisa Harper*  
Clerk of the Board

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
(415) 749-5000

**APPROVED MINUTES**

Advisory Council Special Meeting  
9:30 a.m., Tuesday, October 21, 2008

**Call To Order**

Opening Comment: Chairperson Bedsworth called the meeting to order at 9:31 a.m.

Roll Call: Chairperson Louise Bedsworth, Ph.D.; Council Members Cassandra Adams, Sam Altschuler, Vice Chair Harold Brazil, Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, MPA, Emily Drennen, Fred Glueck, William Hanna, John Holtzclaw, Ph.D., Robert T.P. Huang, Ph.D., Kendal Oku, Linda Weiner and Brian Zamora.

Absent: Irwin Dawid, Steven T. Kmucha, Kraig Kurucz, Karen Licavoli-Farnkopf and Virginia Smyly

**Public Comment Period** – There were no public comments.

1. **Discussion of Proposed Advisory Council Role:** *The Committee was provided information on the Board of Directors' consideration of revising the role of the Advisory Council.*

Mr. Broadbent provided a summary of the history of the Advisory Council, its purpose, membership, representation and standing committees, and said that staff has been considering ways to better utilize the talents and resources of the Advisory Council and had discussed concepts with the Board of Directors Executive Committee at its September 29, 2008 meeting. Specifically, the Executive Committee proposed that the Advisory Council meet four times a year and focus on the following topic areas: 1) current developments in health information related to air quality; 2) current developments in technologies and techniques for control of air emissions from stationary sources; 3) current developments in technologies and techniques for control of air emissions from mobile sources; and 4) current developments related to air quality in land use planning and transportation planning.

Mr. Broadbent further explained that the Air District staff includes scientists, engineers and planners capable of researching and developing policy and developing successful programs and principles relating to health impacts and air quality. The Air District's vision for the Advisory Council is to serve as a forum for hearing and facilitating discussions from experts.

Mr. Broadbent further discussed burdens on staff and duplication of efforts and said the Air District is looking to streamline efforts of the Council. He proposed a process similar to a symposium, where a call for papers would be issued ahead of the meeting and proceedings would be held on the four topic areas.

Discussion ensued and comments were received from the Council.

Mr. Broadbent discussed the Advisory Council's comments, stating that he believed the Air District has an extensive public process where stakeholders are involved and cited the CARE Task Force as an example. Moreover, he felt the Advisory Council can serve a greater purpose as a convener of speakers; members could more efficiently provide their expertise to the Council and be able to determine findings that need to be taken into consideration.

Mr. Broadbent noted that the Chair of the Board of Directors serves as an ex-officio member of the Advisory Council and should attend future meetings. He agreed that staff could logistically arrange for speakers and for papers ahead of time. In conclusion, he said staff was open to feedback and the Board of Directors would ultimately adopt the legal framework to implement recommendations.

Vice Chairperson Harold Brazil, acting as Chairperson in the absence of Dr. Bedsworth, confirmed with Mr. Broadbent that next steps would be to have him meet with the Chairperson, Vice Chairperson and Secretary to develop a proposal, which would be presented and discussed with the full Advisory Council at a regular or special meeting.

Mr. Broadbent thanked the Advisory Council for their patience, reiterated their level of expertise and he is optimistic about developing an efficient working model for the Air District.

**OTHER BUSINESS:**

2. **Council Member Comments/Other Business** – None.
3. **Time and Place of Next Meeting:** The next meeting will be held on Wednesday, November 12, 2008 at 10:00 a.m., 939 Ellis Street, San Francisco, CA 94109.
4. **Adjournment:** The meeting adjourned at 11:28 a.m.

*/s/ Lisa Harper*  
Clerk of the Boards



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

**DRAFT MINUTES**

Advisory Council Technical Committee  
9:30 a.m., Wednesday, October 22, 2008

- 1. Call to Order – Roll Call.** Chairperson, Kraig Kurucz called the meeting to order at 1:00 p.m.

Present: Sam Altshuler, P.E., Louise Bedsworth, Ph.D., Robert Bornstein, Ph.D., Fred Glueck, John Holtzclaw, Ph.D., Kraig Kurucz, Chairperson.

Absent: None

- 2. Public Comment Period.** There were no public comments.
- 3. Approval of Minutes of August 4, 2008:** Mr. Glueck made a motion to approve the minutes of August 4, 2008; seconded by Mr. Altshuler; unanimously approved.
- 4. Discussion of Presentations Made to the Advisory Council:** *The Committee discussed presentations made throughout the year.*

Chair Kurucz asked members if they had further comments on presentations made throughout the year. He suggested adding S.T. Rao’s presentation and bringing it in by reference and working it into a recommendation. He referred to Slide number 7; “Managing air quality requires modeling tools that connect among various scales”. He believes this goes right to the heart of what the Technical Committee is recommending, and it justifies it in terms of tying together various impacts at the different scales, and the fact that if you do not have all of the scales, then you cannot use the model as a predictive tool.

He said Slide 8 is the Air Quality Research Framework which shows where models fit into the scheme of developing recommendations. This is a long process and it does not necessarily lead to a new regulation as an output, but it sets us up to review the science and be able to add new data, run additional models, and use the latest thinking to develop a recommendation.

Dr. Bornstein said it also shows the interaction between the modules of this single model which used to be considered models unto themselves and were run independently from the other models.

Chair Kurucz said if the Technical Committee were to recommend one of these models and the Air District bought a multi-scale model or built one, and the Committee later on decided there was another whole factor it was interested in that was not part of the original purchase, he questioned if this is something that would need to be started from scratch or could it already be in there and capable of it, and it would not be used at some future point where it was determined

to be important to know. Dr. Bornstein said CMAC is designed to be similar to a file cabinet where if a new meteorological model comes along, one would pull out that shelf and put in the new one. Therefore, modules can be updated, and in addition, the new trend is to link all of these scientific models with impact models. So, it may not be a module dealing with pollution of streams now, but if such a module comes, CMAC is constructed for it to be plugged in and integrated. He believed EPA staff could add on any adaptation that is necessary.

Director of Technical Services, Gary Kendall, added that he believes Dr. Bornstein has explained it well; the complex models that employ chemistry generally have deposition built into them. It is a matter of taking the deposition calculations and feeding them into a different piece of software that would look at how that might impact the bay, streams and other waterways.

Dr. Bornstein said he did not believe the Committee should be recommending any specific model, but recommending research towards these integrated one atmospheric models. One could mention that EPA is in the lead, and staff could decide which models out there are the best, given their regulatory framework.

**5. Discussion and Consideration of Proposed Recommendation Resolution:** *The Committee discussed and considered a proposed recommendation resolution to the full Council.*

Mr. Glueck suggested considering a Therefore, Be it Resolved, that recognizing that the District has the implementation, enforcement and compliance obligations on behalf of CARB with consideration to AB 32, one of the efforts should be directed toward addressing how the District can encourage participation from the various stakeholder entities. He noted that there is not a lot the District will be able to do with the influence of mobile sources and more so with stationary sources. However, in terms of their outreach policies towards helping trucking groups in reducing their emissions, obtaining funds for switch outs of their power sources, being more aggressive with technological information to Ports and other stationary locations in alternative forms of energizing systems, and since their aspect is implementation and enforcement in nature, he believed part of that outreach effort could be what science has been made available, where to help direct stakeholders and whether there is a way to become more proactive as a resource of information, assistance and funding to those stakeholders who need to be in compliance with AB 32 regulations. He suggested the formation of an Ad Hoc Committee to identify alternatives in order to reach out to get more stakeholders.

Chair Kurucz said procedurally, Mr. Glueck's suggestion would be in the form of a motion to add a couple of "Whereas" or "Therefore" paragraphs. The Committee suggested taking a short break in order to make copies of Dr. Bornstein's revised recommendation and introduction to a resolution. After a 5-minute break, Chair Kurucz reconvened the meeting.

- Dr. Bornstein announced that he changed the order of the "Whereas" paragraphs, revised some words and made other minor changes. He confirmed with Mr. Altshuler that he had added three bullet points to the end of the recommended resolution wording.

**Committee Action:** Dr. Bornstein made a motion to add S.T. Rao's presentation to the recommendation, to accept the revised recommendation prepared by himself and Mr. Altshuler, and work from this document to discuss further revisions; Dr. Holtzclaw seconded the motion; unanimously approved.

The Technical Committee discussed each paragraph of the revised recommendation and proposed the following changes be made for the final version:

- 1<sup>st</sup> WHEREAS:* WHEREAS, the problems and solutions of climate change and regional pollution are inter-related and can potentially be in conflict;
- 4<sup>th</sup> WHEREAS:* WHEREAS, land use planning (e.g., urbanization and irrigation) impact local climate and energy policies;
- 5<sup>th</sup> WHEREAS:* WHEREAS, the implications of air pollution mitigation and climate protection impact energy policy, ecosystems, water resources and public health;
- 9<sup>th</sup> WHEREAS:* WHEREAS, the Bay Area has an unique concentration of analytical capabilities, experts, and innovators; and

*Revised:* THEREFORE, BE IT RESOLVED THAT, the Advisory Council recommends that the Air District use multi pollutant, multi-scale air quality models and include climate change issues in air quality management. These models should include the following capabilities:

- A validation process against past observations for ozone, PM, toxics, and greenhouse gases) scales from regional to urban to street level.
- Downscaled IPCC global climate data for simulations of past and future regional and local climate change.
- Models that link meteorology, ocean, (i.e., coastal and bay) air quality, climate change impacts (e.g. energy, ecosystems, water resources and health).

**Committee Action:** Mr. Glueck made a motion to accept the changes and adopt the revised resolution wording; Dr. Holtzclaw seconded the motion; unanimously approved.

Mr. Altshuler made a motion to consider and add a final paragraph to the recommendation; Mr. Glueck seconded the motion, as follows:

THEREFORE, BE IT FURTHER RESOLVED, that the Air District continue its interactions with the local multi-disciplinary experts to facilitate its transition to an integrated planning framework.

The Committee recommended that District staff explore the idea of convening a group from the Advisory Council to best implement and facilitate recommendations, suggested that Committee meetings be limited to 10 per year, and 4 symposiums a year to convene and bring together local experts. They discussed and recommended that the following final paragraph be added:

THEREFORE, BE IT FURTHER RESOLVED that the Air District Continue Its Interactions With The Local Multi-Disciplinary Experts To Facilitate Its Transition To An Integrated Planning Framework.

Mr. Glueck said since the Committee recognizes that the District has the staff, resources and outreach capabilities, he suggested that the Advisory Council advocate that staff enhance its outreach efforts to obtain voluntary compliance by stakeholders through its efforts of education, information and advice to the stakeholders. Mr. Kendall reiterated the outreach work already being done by the District through its Carl Moyer Program. He said greenhouse gases, the authority to regulate, control and require reductions lie with the State and they are in the process of specifying reduction targets.

**Committee Action:** Mr. Glueck made a motion to accept the proposed changes to the resolution's wording and authorized the Chair to review changes made once drafted and make modifications as needed; Dr. Holtzclaw seconded the motion; unanimously approved.

6. **Committee Member Comments/Other Business:** Mr. Glueck congratulated the Technical Committee on their work over the last year.
7. **Time and Place of Next Meeting:** 9:30 a.m., Monday, December 1, 2008, 939 Ellis Street, San Francisco, CA 94109.
8. **Adjournment.** 3:12 p.m.

*/s/ Lisa Harper*  
Clerk of the Boards

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109  
(415) 749-5000

**DRAFT MINUTES**

Advisory Council Executive Committee  
10:00 a.m.  
Wednesday, November 12, 2008

- 1. Call to Order – Roll Call:** Chairperson Louise Bedsworth, Ph.D., called the meeting to order at 10:00 a.m.

**Present:** Louise Bedsworth, Ph.D., Chairperson; Harold Brazil, Vice Chairperson; Jeffery Bramlett, Secretary; Emily Drennen and Kraig Kurucz

**Absent:** Brian Zamora

**Also Present:** Fred Glueck, Ken Blonski, Sam Altshuler, Karen Licavoli-Farnkopf

- 2. Public Comment Period:** There was none.
- 3. Approval of Minutes of September 10, 2008:**

**Committee Action:** Mr. Kurucz made a motion to approve the Minutes of September 10, 2008; seconded by Vice Chairperson Bramlett; carried unanimously without opposition.

- 4. Standing Committee Chair Reports:**

**A) Public Health Committee Meeting of October 8, 2008 (Zamora, Acting Chair)**

Chairperson Bedsworth noted Mr. Zamora's absence and reported she had given a presentation on the public health impacts of climate change.

**B) Technical Committee Meeting of October 22, 2008 (Chair Kurucz)**

Mr. Kurucz gave the Technical Committee report, stating the Committee had discussed its recommendation and asked that it be brought forward for review by the Advisory Council. The recommendation is for the District to consider a resolution to address climate change, multi-scale and multi-pollutant modeling and regional pollution. Further,

that the District secure a model that can handle multi-pollutants at different scales from local air toxics rules as well as traditional scales, including CO<sub>2</sub>, so that the impacts of climate change could be an input to the model.

He also reported that the Committee completed its agenda, canceled its December meeting, and will be meeting informally as a group for a luncheon.

## **5. Consideration and Discussion of Recommendation for 2009 Slate of Officers**

*The Committee discussed and recommended to the full Advisory Council a Slate of Officers for 2009.*

**Committee Action:** Mr. Glueck made a motion to approve the 2009 Slate of Officers as follows: Chair Harold Brazil and Vice Chairperson Jeffrey Bramlett, and for the Advisory Council to consider and nominate for the position of Secretary at the January retreat; Mr. Bramlett seconded the motion; carried unanimously without objection.

## **6. Chairperson's Report**

Chairperson Bedsworth reported that on November 3, 2008, the Executive Officer/APCO met with Advisory Council Officers to further consider the role of the Advisory Council, which is proposed as follows:

The Advisory Council will have its January retreat and then meet 8 times per year; conducting 4 symposia to receive presentations from leading experts on defined topic areas and 1 meeting following each symposium (a total of 4 meetings) to summarize materials presented at the symposium. The Council will assign lead member(s) to prepare the reports from each symposium; members will be assigned based on their familiarity with topic area(s) covered. The Council chair will make a presentation to the Board of Directors after each summary meeting. Staff will develop a document template for the reports.

Each meeting report will include:

- 1) Summary of symposium;
- 2) Key points;
- 3) Emerging issues; and
- 4) Future information needs.

Outline of Symposia/Meetings:

January 14, 2009 – Advisory Council Retreat

February 2009 – 1<sup>st</sup> Symposium

March 2009 - Discussion of Symposium

April 2009 – 2<sup>nd</sup> Symposium

May 2009 – Discussion of Symposium

July 2009 – 3<sup>rd</sup> Symposium

September 2009 – Discussion of Symposium

October 2009 – 4<sup>th</sup> Symposium

November 2009 – Discussion of Symposium

There will be no meetings held in June, August, and December. The Officers of the Council will meet on an as needed basis to discuss scheduling and coordination issues.

Gary Kendall, Technical Services Division Director will be the liaison to the Council.

Committee Members discussed the proposed schedule, suggested an evaluation component be incorporated into the process, and were presented with an alternate proposal by Ms. Drennen.

**7. Committee Member Comment/Other Business:**

**8. Time and Place of Next Meeting:** 9:00 a.m., Wednesday, January 14, 2009, 939 Ellis Street, San Francisco, CA 94109.

**9. Adjournment:** The Committee adjourned to the Regular Advisory Council meeting at 10:37 a.m.

Lisa Harper  
Clerk of the Boards

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
(415) 749-5000

**DRAFT MINUTES**

Advisory Council Special Meeting  
10:30 a.m., Wednesday, November 12, 2008

**Call To Order**

Opening Comment: Chairperson Bedsworth called the meeting to order at 10:45 a.m.

Roll Call: Chairperson Louise Bedsworth, Ph.D.; Council Members, Sam Altshuler, Vice Chair Harold Brazil, Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, MPA, Emily Drennen, Fred Glueck, William Hanna, John Holtzclaw, Ph.D., Robert T.P. Huang, Ph.D., Kraig Kurucz, Karen Licavoli-Farnkopf, Kendal Oku, Virginia Smyly and Linda Weiner.

Absent: Cassandra Adams, Irwin Dawid, Steven Kmucha, Brian Zamora

**Public Comment Period** – There were no public comments.

**CONSENT CALENDAR**

1. Approval of Minutes of September 10, 2008 and October 21, 2008

Minor corrections were requested for the minutes of September 10, 2008, as follows:

- Page 2, 1<sup>st</sup> paragraph: "...management planning process, including ~~implying~~ applying and..."
- Page 2, header paragraph: "4. 3. Air Quality Planning Committee Meeting of August 11, 2008"
- Page 3, 3<sup>rd</sup> paragraph: "~~be~~ "she was not sure it should be under..." And "that they do not increase ~~HOT~~ hot spots..."
- Page 5, 1<sup>st</sup> paragraph under Item 5; identify number of exceedances as 11.

**Committee Action:** Mr. Altshuler made a motion to approve the minutes of September 10, 2008 and October 21, 2008, as amended; seconded by Dr. Holtzclaw; which carried by unanimously without objection.

**COMMITTEE REPORTS**

2. Public Health Committee Meeting of October 8, 2008

Chairperson Bedsworth, on behalf of Mr. Zamora, reported that she had given a presentation on the public health impacts of climate change at the meeting of October 8, 2008 and noted that there will not be a Public Health Committee meeting in December.



### 3. Technical Committee Meeting of October 22, 2008

Mr. Kurucz gave the Technical Committee report, stating the Committee had discussed its recommendation and asked that it be brought forward for review by the Advisory Council. The recommendation is for the District to consider a resolution to address climate change, multi-scale and multi-pollutant modeling and regional pollution. Further, that the District secure a model that can handle multi-pollutants at different scales from local air toxics rules as well as traditional scales, including CO<sub>2</sub>, so that the impacts of climate change could be an input to the model.

He also reported that the Committee completed its agenda, canceled its December meeting, and will soon be meeting informally as a group for a luncheon.

After discussion by the Advisory Council, the following amendments to the resolution were recommended:

- Under “Discussion”, omit the second list of presentations;
- Revise Bullet 2: “Apply IPCC global climate data, as the boundary conditions for more local simulations of past and future regional and local climate change; and”
- Revise Bullet 3: “Ability to link meteorology, ocean (i.e., coastal and bay), air quality, and climate change impacts (e.g. energy, ecosystems, water resources and health).”
- Revise “THEREFORE, BE IT FURTHER RESOLVED that the Air District continue its interactions with ~~the~~ local multi-disciplinary experts to facilitate its transition to an integrated planning framework.”

**Committee Action:** Mr. Hanna made a motion to approve the recommendation, as amended; Dr. Holtzclaw seconded the motion; unanimously carried without objection.

## **DISCUSSION**

4. **Approval of Executive Committee Recommendation on 2009 Slate of Advisory Council Officers:** *The Council considered approval of the 2009 Slate of Advisory Council Officers.*

**Committee Action:** Dr. Holtzclaw made a motion to approve the 2009 Slate of Officers as follows: Chair Harold Brazil and Vice Chairperson Jeffrey Bramlett, and for the Advisory Council to consider the position of Secretary at the January retreat; Mr. Glueck seconded the motion; carried unanimously without objection.

## **PRESENTATION**

5. Recognition of Outgoing Advisory Council Members

Chairperson Bedsworth recognized the following outgoing Advisory Council Members, thanked them for their long-term commitment in serving on the Advisory Council, and presented each with a plaque: Linda Weiner, Irwin Dawid, Fred Glueck, Sam Altshuler, William Hanna, Brian Zamora.

Council Members thanked outgoing members for their service, dedication and guidance. Deputy APCO, Jean Roggenkamp, recognized Council Members for their service and expertise, thanked Chairperson Bedsworth for her service and leadership as Chairperson, and presented her with a plaque.

## **DISCUSSION**

### 6. Discussion of Proposed Role of Advisory Council

Chairperson Bedsworth reported that on November 3, 2008, the Executive Officer/APCO met with Advisory Council Officers to further consider the role of the Advisory Council, which is proposed as follows:

The Advisory Council will have its January retreat and then meet 8 times per year; conducting 4 symposia to receive presentations from leading experts on defined topic areas and 1 meeting following each symposium (a total of 4 meetings) to summarize materials presented at the symposium. The Council will assign lead member(s) to prepare the reports from each symposium; members will be assigned based on their familiarity with topic area(s) covered. The Council chair will make a presentation to the Board of Directors after each summary meeting. Staff will develop a document template for the reports.

#### Each meeting report will include:

- 1) Summary of symposium;
- 2) Key points;
- 3) Emerging issues; and
- 4) Future information needs.

#### Outline of Symposia/Meetings:

January 14, 2009 – Advisory Council Retreat  
 February 2009 – 1<sup>st</sup> Symposium  
 March 2009 - Discussion of Symposium  
 April 2009 – 2<sup>nd</sup> Symposium  
 May 2009 – Discussion of Symposium  
 July 2009 – 3<sup>rd</sup> Symposium  
 September 2009 – Discussion of Symposium  
 October 2009 – 4<sup>th</sup> Symposium  
 November 2009 – Discussion of Symposium

There will be no meetings held in June, August, and December. The Officers of the Council will meet on an as needed basis to discuss scheduling and coordination issues.

Gary Kendall, Technical Services Division Director will be the liaison to the Council.

Advisory Council members discussed the proposed schedule, suggested an evaluation component be incorporated into the process, and were presented with an alternate proposal by Ms. Drennen.

Council Members discussed and suggested the following changes to the proposal:

- Expansion of items 1-4 on what each meeting will include;
- Include the word, “recommendations” into the meeting report;
- Requested the word, “effectively” be deleted;
- Discussed an alternate proposal by Council Member Drennen;
- Acknowledged that the structure is new and there is the ability for it to be modified;
- An evaluation component be incorporated;
- The opportunity for new Council Member orientation;
- Consideration be given for the alternative proposal;
- A subcommittee meet to work on symposia programming issues.

Mr. Broadbent thanked Council Members for their dialogue and believed that more clarification regarding the structure could be discussed at the January retreat and modifications could be made as needed. He agreed that the Advisory Council should address key concerns and issues from a technical and scientific standpoint and noted that the new Chair of the Board of Directors will also be attending meetings. He said the first symposia topic will focus on County Health Officers and/or designees, and he further discussed the process for amendment to the District’s Administrative Code.

**Committee Action:** Mr. Hanna made a motion to accept the proposal as a guideline and framework by which the Advisory Council will operate in the coming year and modify it as necessary; Mr. Glueck seconded the motion; which passed by the following vote: Ayes: 13; Noes: 1 (Drennen); Abstain: 2 (Weiner and Smyly).

### **OTHER BUSINESS:**

#### **7. Council Member Comments/Other Business**

Committee Members and staff discussed the District’s need to be engaged in the AB 32 Scoping Plan implementation. Mr. Broadbent reported that staff is forwarding the AB 32 principles developed by the Advisory Council to the Board of Directors for their endorsement.

Dr. Bornstein announced that his paper on local California summer daytime coastal cooling has been accepted by the American Meteorological Society's Journal of Climate, the top atmospheric journal worldwide. It will first be posted on-line and then will appear in print.

8. **Time and Place of Next Meeting:** The next meeting will be a Retreat, held on Wednesday, January 14, 2009 at 10:00 a.m., 939 Ellis Street, San Francisco, CA 94109.
9. **Adjournment:** The meeting adjourned at 12:25 p.m.

Lisa Harper  
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Pamela Torliatt and  
Members of the Executive Committee

From: Chairperson Louise Wells Bedsworth, Ph.D. and  
Members of the Advisory Council

Date: November 12, 2008

Re: Consideration of Recommended Resolution developed by the Advisory  
Council Regarding Climate Change and Regional Pollution

RECOMMENDED ACTION

Recommend Board of Directors approval of the Resolution Regarding Climate Change and Regional Pollution.

BACKGROUND

At the August 4 and October 22, 2008 meetings of the Technical Committee, the Committee developed a recommended resolution regarding Climate Change and Regional Pollution.

The Advisory Council at its November 12, 2008 meeting discussed and further refined the recommended resolution for review and approval by the Executive Committee and the Board of Directors.

DISCUSSION

Based on the following presentations to the Advisory Council Technical Committee:

1. *Update on PM Inventory Development, Modeling and Data Analysis (presented on February 11, 2008 by Mr. Saffet Tanrikulu and Mr. David Fairley);*
2. *Consequences of Changes in Temperature, Inflow Boundary Conditions, and Local Emissions, on Air Quality in Central California (presented on April 7, 2008 by Professor Rob Harley);*
3. *Past and Future Temperature World-Wide, in California, and the Bay Area (presented on June 9, 2008 by Dr. Philip B. Duffy);*
4. *Multi-scale and Multi-pollutant Air Quality Modeling Research and Its Applications (presented on May 15, 2008 by Dr. S.T. Rao).*

The Committee discussed at length the following phrases as input to a resolution for consideration by the Executive Committee and thereafter, to the Board of Directors.

Recommendation to Executive Committee and Board of Directors from the Advisory Council:

Introduction to Resolution:

WHEREAS, the problems and solutions of climate change and regional pollution are inter-related and can potentially be in conflict;

WHEREAS, climate change can overwhelm air quality planning gains and cause unintended consequences and trade-offs by its effects such as increased wild fires affecting air quality, summer daytime coastal cooling as a reaction to inland global warming, changing snowfall into rain and coastal flooding;

WHEREAS, regional reactions to global climate change are varied;

WHEREAS, land use planning (e.g., urbanization and irrigation) impact local climate and energy policies;

WHEREAS, the implications of air pollution mitigation and climate protection impact energy policy, ecosystems, water resources and public health;

WHEREAS, the Bay Area has extensive existing air quality and meteorological observational networks;

WHEREAS, EPA modeling is now becoming multi-scale and multi-pollutant;

WHEREAS, prediction models need validation against past changes;

WHEREAS, the Bay Area has an unique concentration of analytical capabilities, experts, and innovators; and

WHEREAS, the Bay Area has historically served as a model for the development of innovative air quality strategies;

THEREFORE, BE IT RESOLVED THAT, the Advisory Council recommends that the Air District use multi pollutant, multi-scale air quality models and include climate change issues in air quality management. These models should include the following capabilities:

- A validation process against past observations for ozone, PM, toxics, and greenhouse gases at scales from regional to urban to street level
- Apply IPCC global climate data, as the boundary conditions for more local simulations of past and future regional and local climate change; and
- Ability to link meteorology, ocean (i.e., coastal and bay), air quality, and climate change impacts (e.g. energy, ecosystems, water resources and health)

THEREFORE, BE IT FURTHER RESOLVED that the Air District continue its interactions with local multi-disciplinary experts to facilitate its transition to an integrated planning framework.

Respectfully submitted,

Dr. Louise Bedsworth,  
Chairperson, Advisory Council

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Pamela Torliatt and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 20, 2008

Re: Continued Discussion on Advisory Council's Role

RECOMMENDED ACTION

None at this time. Item is an update of discussion between the Advisory Council and the Executive Officer/APCO.

BACKGROUND

The Executive Committee at its September 29, 2008, meeting, discussed the role of the Council and considered how to utilize the knowledge and expertise of the Advisory Council more effectively. The Executive Committee proposed that the Advisory Council meet 4 times a year to hold symposia and invite leading experts in the field to focus on the following topic areas:

- 1) Current Developments in Health Information Related to Air Quality;
- 2) Current Developments in Technologies and Techniques for Control of Air Emissions from Stationary Sources;
- 3) Current Developments in Technologies and Techniques for Control of Air Emissions from Mobile Sources; and
- 4) Current Developments Related to Air Quality in Land Use and Transportation Planning.

The Advisory Council at its October 21, 2008, meeting discussed the Executive Committee's proposal and after much discussion requested that the Executive Officer/APCO meet with the Officers of the Council to consider Council member comments and to present an outline to the Council at its next meeting.

On November 3, 2008, the Executive Officer/APCO met with Advisory Council Officers to further consider the role of the Advisory Council.

On November 12, 2008 the Executive Officer/APCO met with the full Advisory Council to update the Council on discussion between the Advisory Council Officers and the Executive Officer/APCO.

## DISCUSSION

At the November 3, 2008 meeting between the Executive Officer/APCO and the Officers of the Advisory Council, issues and questions raised by the full Council during its October 21, 2008 meeting and at its November 12, 2008 meeting were discussed.

Based on these meetings, and discussion, the Advisory Council will meet 9 times per year, to include holding its January retreat; conducting 4 symposia to receive presentations from leading experts on defined topic areas and 1 meeting following each symposia (a total of 4 additional meetings) to summarize materials presented. The Advisory Council will assign lead member(s) to prepare the reports from each symposium. Members will be assigned based on their familiarity with topic area(s) covered. The Advisory Council Chair will make a presentation to the Board of Directors after each summary meeting. These concepts will be incorporated into a revision to the Administrative Code provisions regarding the Advisory Council.

## BUDGET CONSIDERATION/FINANCIAL IMPACT

Staff anticipates that a reduction in the number of meetings and synthesizing of topics considered by the Advisory Council would result in an undetermined savings from reduced demand on staff resources devoted to the Advisory Council.

Respectfully Submitted,

Jack P. Broadbent  
Executive Officer/APCO



BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Pamela Torliatt and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 20, 2008

Re: Consideration of Community Grant Program Funding Level

RECOMMENDED ACTION

Staff is seeking a recommendation from the Executive Committee for approval by the Board of Directors of a \$250,000 funding level for development of a formalized Community Grant Program.

BACKGROUND

The Air District has historically supported community-based projects that reduce emissions, improve energy efficiency, provide air quality education and improve community health, yet not in a formalized process. The District will create a designated fund for these community-based projects which help to forward the District's mission of achieving clean air to protect the public's health and the environment.

The Public Outreach Committee met on October 31, 2008, to provide direction to staff on the development of the Community Grant Program. The Board of Directors at its November 5, 2008, Board meeting, approved the Public Outreach Committee's recommendation to formalize the creation of a Community Grant Program.

DISCUSSION

The Community Grant Program provides an opportunity for the Air District to focus on areas where there is a demonstrated need for resources, and a commitment to the Air District's mission and approach where resources can be utilized to achieve a measurable impact. To achieve these goals this program proposes to award grants that focus on outreach, education, emission reductions, and/or public health in communities.

Staff will establish the criteria, thresholds and target areas for Executive Committee consideration. Once the program is in place, staff will have a call for projects, screen applications, and present projects to the Executive Committee for consideration.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

Staff is seeking a recommendation for approval by the Board of Directors for a \$250,000 funding level for the Community Grant Program. The fiscal year 2008/2009 budget includes funds for incentive programs which could include funding for the Community Grant Program.

Respectfully submitted,

Jack P. Broadbent Executive  
Officer/APCO

**BAY AREA AIR QUALITY MANGEMENT DISTRICT**

Memorandum

To: Chairperson Hill and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 19, 2008

Re: Production System Project Update

RECOMMENDED ACTION:

Receive and File.

DISCUSSION:

Staff will present some of the early capabilities already deployed from the production system project. In addition, the underlying information system's server infrastructure will be described.

BUDGET CONSIDERATION/FINANCIAL IMPACT

No impact.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Jeffrey McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Pamela Torliatt and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 20, 2008

Re: Joint Policy Committee Update

RECOMMENDED ACTION:

Receive and file.

DISCUSSION

At the November 24, 2008, meeting of the Executive Committee, staff will provide an update on the activities of the Joint Policy Committee.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO