



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

BOARD OF DIRECTORS  
EXECUTIVE COMMITTEE MEETING

COMMITTEE MEMBERS

MARLAND TOWNSEND – CHAIRPERSON  
MARK ROSS – SECRETARY  
SCOTT HAGGERTY  
JULIA MILLER  
BRAD WAGENKNECHT

GAYLE B. UILKEMA – VICE CHAIRPERSON  
MARK DeSAULNIER  
JERRY HILL  
SHELIA YOUNG

WEDNESDAY  
NOVEMBER 30, 2005  
9:30 A.M.

FOURTH FLOOR CONFERENCE ROOM  
DISTRICT OFFICES

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 OCTOBER 12, 2005**
4. **QUARTERLY REPORT OF THE HEARING BOARD** T. Dailey/4965
5. **REPORT OF THE ADVISORY COUNCIL** B. Zamora/4965  
[bzamora@co.sanmateo.ca.us](mailto:bzamora@co.sanmateo.ca.us)
6. **UPDATE ON THE JOINT POLICY COMMITTEE** J. Roggenkamp/4646  
[jroggenkamp@baaqmd.gov](mailto:jroggenkamp@baaqmd.gov)  
*Ted Droettboom, Regional Planning Program Director of the Joint Policy Committee will provide an update on the activities of the Joint Policy Committee.*
7. **CONSIDER RECOMMENDING TO THE BOARD OF DIRECTORS THE CREATION OF A SELF-INSURED RETIREE LIFE INSURANCE PROGRAM** J. Broadbent/5052  
[jbroadbent@baaqmd.gov](mailto:jbroadbent@baaqmd.gov)  
*The Committee will consider recommending to the Board of Directors the creation of a self-insured retiree life insurance program.*
8. **STATUS REPORT OF PHASE ONE IMPLEMENTATION OF VIDEO-CONFERENCING EQUIPMENT INSTALLATION IN THE 4<sup>TH</sup> FLOOR CONFERENCE ROOM** J. McKay/4629  
[jmckay@baaqmd.gov](mailto:jmckay@baaqmd.gov)  
*The Committee will receive a status report on progress being made with regard to the installation of teleconferencing equipment in the 4<sup>th</sup> floor conference room.*

**9. REPLACEMENT OF DATABASE AND IRIS**

**J. McKay/4629**

[jmckay@baaqmd.gov](mailto:jmckay@baaqmd.gov)

*Staff will present an update on the ongoing work on the Production System Replacement.*

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

**11. ADJOURNMENT**

**CONTACT CLERK OF THE BOARDS - 939 ELLIS STREET  
SAN FRANCISCO, CA 94109**

**(415) 749-4965**

**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.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Townsend and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 10, 2005

Re: Executive Committee Draft Minutes

RECOMMENDED ACTION:

Approve attached draft minutes of the Executive Committee meeting of October 12, 2005.

DISCUSSION

Attached for your review and approval are the draft minutes of the October 12, 2005 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) 771-6000**

DRAFT MINUTES

Summary of Board of Directors  
Executive Committee Meeting  
9:30 a.m., Wednesday, October 12, 2005

1. **Call to Order - Roll Call:** Chairperson Marland Townsend called the meeting to order at 9:34 a.m.

**Present:** Marland Townsend, Chairperson, Mark DeSaulnier (9:41 a.m.), Jerry Hill, Julia Miller, Mark Ross, Gayle B. Uilkema (9:43 a.m.), Brad Wagenknecht.

**Absent:** Scott Haggerty, Shelia Young.

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

3. **Approval of Minutes of May 20, 2005:** Director Miller moved approval of the minutes; seconded by Director Hill; carried unanimously without objection.

4. **Report of the Hearing Board:** This item was deferred until the arrival of Hearing Board Chairperson Dailey.

5. **Report of the Advisory Council:**

- a) *Review of previous minutes of the Council;*
- b) *Considered recommendation to the Board of Directors on an appointment to the Regional Park District category position; and*
- c) *Considered recommendation from the Council on Indoor Air Quality.*

Brian Zamora, Chairperson of the Advisory Council, presented the Report of the Advisory Council and provided an update on a formalized Code of Conduct for the Council, provided the Council's recommendation on Indoor Air Quality (IAQ), and provided a review of the presentation made at the last Council meeting by Dr. Richard Jackson on public health and land-use planning.

Director DeSaulnier arrived at 9:41 a.m.

There was a brief discussion on air purifiers.

Director Uilkema arrived at 9:43 a.m.

In response to a question from Director Miller, Mr. Zamora stated he would provide a list of the substances emitted from air purifiers. Mr. Zamora requested the Committee accept the Council's recommendation on IAQ.

William Hanna, Chairperson of the Advisory Council Applicant Selection Working Group, requested that the Committee recommend Board of Director approval of the appointment of Ken Blonski to the Regional Park District category on the Advisory Council for an unexpired term ending December 31, 2005.

**Committee Action:** Director Uilkema moved that the Committee recommend Board of Director approval of the appointment of Ken Blonski to the Regional Park District category on the Advisory Council for an unexpired term ending December 31, 2005; seconded by Director Ross; carried unanimously without objection.

It was noted that the Council's recommendation on IAQ has come back to staff for review.

4. **Quarterly Report of the Hearing Board:** Hearing Board Chairperson Tom Dailey presented the Hearing Board Quarterly Report –April 2005 – June 2005. Dr. Dailey noted that in May, he was re-elected as Chairperson and Christian Colline was re-elected as Vice-Chairperson. Director Miller requested that future reports provide a breakdown of the excess emissions by Applicant.

Dr. Dailey also reported on the Asthma Walk held on October 8, 2005 and noted that Director Miller has participated in this walk in the past.

**Committee Action:** None. This report provided for information only.

6. **Update on the Joint Policy Committee:** *Ted Droettboom, Regional Planning Program Director of the Joint Policy Committee provided an update on the activities of the Joint Policy Committee.*

Mr. Droettboom updated the Committee on the activities of the Joint Policy Committee (JPC). Mr. Droettboom stated that a work program was approved by the JPC in September that includes working closely with local government to increase Bay Area housing. Mr. Droettboom provided information on each of these aspects of the work program.

**Committee Action:** None. This report provided for information only.

7. **Update to Affirmative Action Plan:** *The Committee received a report on the Update to the Affirmative Action Plan.*

Michael Rich, Human Resources Officer, presented the report and reviewed the background on the Air District's Affirmative Action Plan. Mr. Rich discussed highlights of the updated Plan and presented some of the actions and goals on which the District is working. Mr. Rich noted that the District has a diverse workforce, but is taking actions to address the underutilization of females and other minorities.

**Speaker:** Julian Elliott  
Employees' Association

**Committee Action:** None. This report provide for information only.

- 8. Informational Report on Organizational Changes:** *The Committee received a report on organizational realignment of various divisions.*

Jack Broadbent, Executive Officer/APCO, discussed the organizational realignment of several divisions. Mr. Broadbent reviewed specific changes and noted that the Committee will receive additional information on these changes at a later date, specifically on compensation of the Human Resources Officer position.

Mr. Broadbent introduced Jack Colburn as the Acting Director of the Outreach and Incentives Division.

**Committee Action:** None. This report provided for information only.

- 9. Closed Session: Public Employee Performance Evaluation:** *Pursuant to Government Code Section 54957 and 54957.6, the Committee met in closed session to conduct performance evaluations of the Executive Officer/APCO and the District Counsel.*

The Committee convened to Closed Session at 10:40 a.m.

- 10. Open Session: Committee Member Comments/Other Business:**

The Committee reconvened to Open Session at 11:33 a.m.

Brian Bunger, Legal Counsel, reported that the Committee met in Closed Session on Item 9 to conduct performance evaluations of the Executive Officer/APCO and the District Counsel. The Committee will report to the Board of Directors on this item at the next Board meeting.

There were no Committee member comments or other business.

- 11. Time and Place of Next Meeting:** 9:30 a.m., Wednesday, November 30, 2005, 939 Ellis Street, San Francisco, CA 94109.

- 12. Adjournment.** The meeting was adjourned at 11:34 a.m.

Mary Romaidis  
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

**TO:** Chairperson Marland Townsend and Members of the Executive Committee  
**FROM:** Chairperson Thomas M. Dailey, M.D., and Members of the Hearing Board  
**DATE:** November 14, 2005  
**RE:** Hearing Board Quarterly Report – JULY 2005 – SEPTEMBER 2005

**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/Newark	PECHINEY PLASTIC PACKAGING, INC. (Appeal – Docket No. 3495) – Appeal regarding Reopening for Cause of Specific Terms and Conditions of the Revised MFR Permit for Facility # A0273	Title V	Withdrawn	===	===
Alameda/San Leandro	BEACON SERVICE STATION (Variance – Docket No. 3501) – Variance from regulation limiting emissions of organic compounds from gasoline dispensing facilities (APCO not opposed.)	8-7-302.3	Granted	8/12/05-9/25/05	===
Contra Costa/Antioch	TRC (CONTRA COSTA SANITARY LANDFILL) (Variance - Docket No. 3499) – Variance from regulation requiring compliance with permit conditions and from regulation limiting emissions of non-methane organic compounds and methane from the waste decomposition process at solid waste disposal sites (APCO opposed.)	8-34-301, 303 & 305 2-1-307 (Condition ID # 2112, Item Nos. 1 & 11a)	Withdrawn	===	(VOC) and (NMOC)
Contra Costa/Byron	UNIMIN CORPORATION-BYRON PLANT (Variance – Docket No. 3502) – Variance from regulation requiring compliance with permit conditions.	2-1-307	Withdrawn. Applicant made modifications to its facilities which resulted in compliance with its permit	===	===

<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>
Santa Clara/Mountain View	SHORELINE LANDFILL, CITY OF MOUNTAIN VIEW, CA. (Variance – Docket No. 3498) – Variance from regulation requiring compliance with MFR permit conditions and from regulation limiting emissions of non-methane organic compounds and methane from the waste decomposition process at solid waste disposal sites (APCO not opposed.)	8-34-301.1, 301.2, 303 & 305 MFR Permit Condition No. 16065, Parts 2, 3 & 5C	Granted	7/26/05 to 7/25/06 * See explanation below	1700 # (VOC) 13 # (TAC)
	* Limited to 120 hrs.of actual downtime and 12 hrs. maximum downtime per day. Applicant will have an additional 180 hrs. maximum per shutdown event. Total downtime & total time to regain compliance is 300 hrs, or 12.5 days				

**NOTE: During the third quarter of 2005, the Hearing Board dealt with two Dockets on two hearing days. A total of \$3,058.31 was collected as excess emission fees during this quarter.**

**EXCESS EMISSION DETAILS**

<u>COMPANY NAME</u>	<u>DOCKET NO.</u>	<u>TOTAL EMISSIONS</u>	<u>TYPES OF EMISSIONS</u>	<u>PER UNIT COST</u>	<u>TOTAL AMT COLLECTED</u>
International Paint, Inc.	3431	683 lbs.	VOC	\$ 1.25/lb	\$ 853.75
Shoreline Landfill, City of Mountain View	3498	1700 lbs 12.75 lb	VOC/NMOC TAC	\$ 1.25/lb \$ 6.24/lb	\$2,125.00 \$ 79.56
			<b>TOTAL COLLECTED:</b>		<b><u>\$3,058.31</u></b>

Respectfully submitted,

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

Prepared by: Neel Advani  
Reviewed by: Mary Romaidis

FORWARDED: \_\_\_\_\_  
NA:na (11/14/05HBEXQURT)



BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Townsend and Members of the Board of Directors Executive Committee

From: Brian Zamora, Advisory Council Chairperson

Date: November 17, 2005

Re: Report of the Advisory Council: August 18 – November 8, 2005

RECOMMENDED ACTION:

Receive and file.

DISCUSSION:

At the November 9, 2005 Regular meeting of the Advisory Council, the calendar year Council Officers were elected. Chairperson Brian Zamora will announce the slate of Advisory Council Officers for 2006 at the November 30<sup>th</sup> meeting.

Attached for your review are the minutes of the following Advisory Council meetings:

a) Executive Committee Meeting of September 14, 2005.

The Committee reviewed the progress of the Standing Committees in their work plans.

b) Regular Meeting of September 14, 2005.

The Council received a presentation on urban sprawl and land-use planning by Dr. Richard Jackson, former California State Health Director.

c) Joint Air Quality Planning & Technical Committee Meeting of October 12, 2005.

The Committee received an update on the Community Air Risk Evaluation (CARE) program.

d) Public Health Committee Meeting of October 24, 2005.

The Committee discussed topics for its work plan in 2006.

Respectfully submitted,

Brian Zamora  
Advisory Council Chairperson

Prepared by: James N. Corazza

**FORWARDED BY:** \_\_\_\_\_

G:Acreports/2005

AGENDA: 5a

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

DRAFT MINUTES

Advisory Council Executive Committee Meeting  
9:00 a.m., Wednesday, September 14, 2005

- 1. Call to Order – Roll Call.** 9:15 a.m. Present: Brian Zamora, Chairperson, Elinor Blake, Stan Hayes, John Holtzclaw, Ph.D., Victor Torreano. Absent: Fred Glueck.
- 2. Public Comment Period.** There were no public comments.
- 3. Approval of Minutes of July 13, 2005.** Mr. Torreano moved approval of the minutes; seconded by Ms. Blake; carried unanimously.
- 4. Work Plan Review with Committee Chairs.** Dr. Holtzclaw reported that the Air Quality Planning Committee and Technical Committees met jointly last month to receive a presentation on the California Climate Action Registry. The Committees hope to jointly review the forth-coming Ozone Strategy and accompanying Environmental Impact Report documentation, as well as staff guidelines for California Environmental Quality Act (CEQA) that are scheduled for development in the near future. The Committees could review this early on. Mr. Torreano reported that the Public Health Committee has been revising its recommendations on Indoor Air Quality (IAQ) and these will be considered today by the full Advisory Council. Mr. Hayes reported that the Technical Committee has reviewed issues jointly with the Air Quality Planning Committee, including greenhouse gas emissions and climate change. The Technical Committee will jointly meet with the Air Quality Planning Committee in October to receive a staff presentation on the Community Air Risk Evaluation (CARE) program. Peter Hess, Deputy Air Pollution Control Officer, indicated that staff will be prepared to deliver the presentation on the CARE program at the October 12, 2005 joint committee meeting.

**5. Committee Member Comments.** Mr. Hayes expressed appreciation to Ms. Blake for her years of service on the Advisory Council.

**6. Time and Place of Next Meeting.** 9:00 a.m., Wednesday, November 9, 2005, 939 Ellis Street, San Francisco, CA 94109.

**7. Adjournment.** 9:58 a.m.

James N. Corazza  
Deputy Clerk of the Boards

AGENDA: 5b

## **BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

939 ELLIS STREET - SAN FRANCISCO, CALIFORNIA 94109

Draft Minutes: Advisory Council Regular Meeting – September 14, 2005

### **CALL TO ORDER**

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

Roll Call: Present: Brian Zamora, Chair, Cassandra Adams, Sam Altshuler, P.E., Diane Bailey, Louise Bedsworth, Ph.D., Elinor Blake, Bob Bornstein, Ph.D., Jeffrey Bramlett, Harold M. Brazil, Irvin Dawid, Emily Drennen, William Hanna, Stan Hayes, John Holtzclaw, Ph.D., Kraig Kurucz, Victor Torreano, Linda Weiner.

Absent: Fred Glueck, Kevin Shanahan.

**PUBLIC COMMENT PERIOD:** There were no public comments.

### **CONSENT CALENDAR:**

**1. Approval of Minutes of July 13, 2005.** Mr. Dawid requested “and” replace the dash mark on page five, Item No. 9, line two, and moved approval of the minutes as corrected; seconded by Dr. Holtzclaw; carried unanimously.

Chairperson Zamora called Item No. 9 out of order.

### **COMMENDATION/PROCLAMATION**

**9. Resolution in Honor of Outgoing Advisory Council “Public Health Agency”**

**category member Elinor Blake.** Chairperson Zamora presented Ms. Blake with Resolution No. 90, in the Matter of Expressing Esteem and Appreciation to Elinor Blake for her Outstanding Service on the Advisory Council from April 1996 to October 2005. Council members proffered their congratulations on her year of service to the District. Ms. Blake expressed her appreciation for the opportunity to serve.

## **PRESENTATION:**

**2. Public Health and Land-use Patterns.** Dr. Richard Jackson, former California State Health officer, presented “Urban Sprawl and Public Health.” Dr. Jackson opined that the purpose of public health is to fulfill society’s interest in assuring the conditions in which people live can be healthy. After having observed an elderly woman in Atlanta carrying a heavy shopping bag on a hot day without access to public transportation, he concluded that had she died of heat stroke, the official cause of death would have been heat stroke without any reference to the lack of public transportation or other references to the environment in which one lives.

He noted that as a former member of the Center for Disease Control in the 1990’s, he reviewed public health issues for the current millennium. The diseases of the 21<sup>st</sup> century include the costs of care for aging populations, excess weight, diabetes, heart disease, mental disorders such as depression, anxiety, developmental problems and substance abuse. From a systemic perspective, the management of wealth is a key problem, since Americans “supersize” and over-consume everything and create threat to their health. During Saturday morning cartoons, there are 200 food advertisements in first four hours. California children are in desperate physical shape, such that only one quarter of the state’s ninth graders can run a 12-minute mile. The supersizing of homes creates a tremendous burden on electric utilities. This over burdening also occurs with larger cars and the creation of sound walls to mitigate the additional noise. Sound walls cost \$1.5 million per mile to construct.

There is a similar supersizing of capital investments in roadways and highways now occurring, along with a corresponding increased consumption of land (equivalent in size to the State of Georgia) that has been rendered impervious due to paving and other covering. In 1946, Los Angeles was the leading agricultural county in California. The pressure to develop primary agricultural land has not abated. This may lead to the scenario in which California will become an importer of fruits and vegetables one day.

Rapid development in the Central Valley in California will increase that region’s population beyond the City of New York by 2040. This will create even greater bottlenecks on California highways entering into the Bay Area. Four of the ten most polluted cities in the United States are in the Central Valley in California. The large building developments in these areas without corresponding health and government services shows a lack of a long-term view, and this adversely influences air quality simultaneously. As to considerations of causal analysis, in Atlanta in 1996 people

were asked not to drive, and traffic volume decreased by 30% while air pollution improved by the same amount. A dramatic drop off occurred in hospital visits during this same time period.

With regard to the issue of asthma prevalence in California, one person in six has asthma. The rapid paving over of the United States and California has also had a major impact on temperature increases. If this trend continues, temperatures will be six to eight degrees higher in the summer and three to four degrees higher in the winter within the next generation. Similarly, reductions are forecasted in the Sierra Snowpack under such circumstances will mean the loss of this natural reservoir and the need to rebuild the entire water system in the state. This will have extremely significant economic impacts.

Mothers now drive their cars twice as much as in the past, and children do not walk or bike to school but instead are driven under current land-use patterns. The removal of such physical exercise bodes ill for health considerations, and entails the questionable spending of more money on sound walls than on sidewalks. Supersized schools are replacing the smaller schools. Dr. Jackson added that in his view the consumption of Ritalen—which reduces hyperactivity—by today's youth may be related to the withdrawal of a regular physical activity regiment from schools.

The most prevalent disease among Americans is depression. Exercise works as well as chemical treatment for this condition, and creating environments in which walking and biking is discouraged is self-defeating. Obesity is also epidemic in America. In 1990, less than 10% of residents in California were obese. In 1993, that figure rose to 10-14%, and by 2001 that figure rose further to 20-25%. This is a high risk factor for high blood pressure, gall bladder disease, cancer, and many other adverse health conditions. Obesity puts strain on hospitals, which have had to purchase heavier, more sturdy and more costly gurneys, given the increased average weight that Americans have in the last ten years.

An indirect effect of increased 10 pounds of weight in Americans has increased consumption of jet fuel by 350,000 million gallons, and the emissions from this increase may be easily estimated. The most rapidly growing surgery is stomach stapling, including in children. Insurance will pay for this surgery, but a doctor's prescription of health club regimen would not be covered. The distinction between disease response versus prevention cannot be sufficiently emphasized. The epidemic of obesity is linked with diabetes, in which a major increase has been observed. Risks of Type II diabetes increase in particular. In 1993-94, 6-8% of Californians had Type II diabetes, and by 2001, over 10% of the state's population has been diagnosed with this disease. Most instances of adult onset diabetes in children are obesity related. One third to one half of all Type II diabetes in children comes from obesity, and there are children in significant numbers diagnosed with liver disease. Increasing physical activity within the population is as important as reducing obesity.

On the positive side, speculations on the epidemic of heart disease in the 1960's were

proven wrong, by changes in diet, reduced smoking and improved medical care. Cigarette consumption in the state has also decreased from 1980 in 130 million packs a year of cigarettes to 44 million. The change has been due to environmental factors, such as taxes on cigarettes, and anti-tobacco advertising and no-smoking regulations in buildings. Lung cancer has decreased 19.5% in 25 years.

Americans need to change the general pattern of diet and reduce their consumption of high fructose corn sugar. High fructose corn sugar should be taxed, just like cigarettes are taxed. This would generate significant funds that could be applied to programs consonant with the themes developed in this presentation. A strong program of in-fill development should be aggressively sought for the development of healthy living environments.

Increases in incidental exercise need to be achieved in American life. Europeans walk or bike in almost half of their routine errands. Average weight differs by six pounds in sprawl and non-sprawl areas. The Fruitvale model in California, with its emphasis on designing transit oriented development, should be carefully studied and advocated. There are excellent air quality reasons, even as there are sound mental and physical reasons, to create healthy living environments.

### **AIR DISTRICT OVERVIEW:**

#### **3. Report of the Executive Officer/APCO.** Jack P. Broadbent, Executive Officer/Air Pollution Control Officer (APCO), stated:

- a) This year's smog season registered one federal and seven state ozone exceedances. One Spare the Air Day was called, and no ozone exceedances were registered.
- b) In July the Board adopted a flare control rule, which is the first of its kind in the country. Four additional regulations are scheduled to be heard in a public hearing before the Board. These concern pressure relief valves, wastewater systems, tanks and marine vessels.
- c) The District has completed its update of the Ozone Control strategy and will bring this document before the Board for adoption later this year.
- d) The District recently issued a report on potential control measures for particulate matter, in conformity with SB 656.
- e) Public Information & Outreach Director Teresa Lee has announced her retirement at the end of this month after 31 years of service at the Air District.
- f) Information on toxic emission inventories for the Community Air Risk Evaluation (CARE) program will be presented at the next joint meeting of the Advisory Council Air Quality Planning and Technical Committees.

### **COMMITTEE REPORTS AND RECOMMENDATIONS**

**4. Joint Technical & Air Quality Planning Committee Meeting of August 16, 2005.**

Dr. Holtzclaw stated the Joint Committee received a presentation from Diane Wittenberg of the California Climate Action Registry on the Registry's purpose and work. The Joint Committee will next review the CARE program and the environmental review documentation for the District's Ozone Strategy.

**5. Public Health Committee Meeting of August 15, 2005.**

Mr. Torreano presented the Committee's recommendations on Indoor Air Quality (IAQ), stating the Committee re-affirmed its previous recommendations and has added several new ones. MR. Bramlett moved the Council adopt the Committee's recommendations for forwarding to the Board Executive Committee; seconded by Dr. Holtzclaw; carried unanimously.

**6. Executive Committee Meeting of July 13, 2005.**

Chairperson Zamora stated the Standing Committees provided reports on their current work plans and future agenda items.

**OTHER BUSINESS**

**7. Report of Advisory Council Chair.**

Chairperson Zamora stated application period for the "Regional Park District" and "Public Health Agency" categories on the Council will close today.

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

Ms. Drennen recommended that the categories of gender and racial diversity be looked to in selecting new Council members. Mr. Dawid expressed interest in receiving a report on the proliferation of hybrid and diesel cars, as well as on remote sensing emissions monitoring the South Coast AQMD. Chairperson Zamora suggested that become a part of the Council's work plan for the next year, starting at the Air Quality Planning Committee level.

**10. Time and Place of Next Meeting.**

10:00 a.m., Wednesday, November 14, 2005, 939 Ellis Street, San Francisco, CA 94109.

**11. Adjournment.**

The meeting was adjourned at 11:52 a.m.

James N. Corazza  
Deputy Clerk of the Boards

AGENDA: 5c

939 Ellis Street  
San Francisco, California 94109

DRAFT MINUTES

Joint Air Quality Planning & Technical Committees  
9:30 a.m., Wednesday, October 12, 2005

- 1. Call to Order – Roll Call.** Chairperson Holtzclaw called the meeting to order at 9:42 a.m. Air Quality Planning Committee (AQPC) Members Present: John Holtzclaw, Ph.D., Harold Brazil, Irvin Dawid, Emily Drennen, Kraig Kurucz, Fred Glueck. AQPC Members Absent: Emily Drennen, Kevin Shanahan. Technical Committee Members Present: Sam Altshuler, P.E., Louise Bedsworth, Ph.D., Robert Bornstein, Ph.D., William, Hanna, John Holtzclaw, Ph.D. Technical Committee Members Absent: Diane Bailey, Stan Hayes, Chairperson.
- 2. Public Comment Period.** There were no public comments.
- 3. Approval of Joint Committee Meeting Minutes of August 16, 2005.** Chairperson Holtzclaw deferred this item until the latter part of the meeting.
- 4. Update on the District’s Community Air Risk Evaluation (CARE) Program.** Janet Stromberg, CARE Program Manager, stated that the CARE program objectives are to investigate exposure to air toxics emissions in the Bay Area from outdoor emissions and to reduce the risk associated with them. The focus will be on exposure to toxic air contaminants (TAC) throughout the Bay Area by evaluating the TAC inventory and evaluating supplementary particulate matter (PM) air monitoring analysis. The cumulative risk analysis for a small sub-area that was originally planned will be deferred in order to partner with the California Air Resources Board (CARB) to develop a comprehensive study of the region for all source types. Emission inventory grids will be overlaid on demographic maps in order to assess exposure.

Ms. Stromberg introduced Steven Reid of Sonoma Technologies, Inc. Mr. Reid indicated that the first-draft of the TAC emission inventory uses readily available information for a screening-level assessment of population exposures and the subsequent selection of a study community. A “top down” method will be used that examines activities on a regional scale rather than evaluating individual emitters. The approach begins by using existing criteria pollutant emission inventories, and then applies available chemical speciation profiles along with available cancer and non-cancer unit risk factors to a spatial allocation of emissions on gridded maps.

The study area includes the nine Bay Area counties. Various inventories will be used: the 2000 area- and non-road Total Organic (TOG) compound and PM10 emissions at a county level and an annualized level (in tons per year in a given county). On-road TOG emissions for 2000 were gridded to a 2 km x 2 km grid cell domain from a different data base that contained a summer and winter averaged inventory. These



were averaged in turn to obtain an annualized total. Another inventory for point sources contained TAC emissions by individual facility, including benzene from such point sources as petroleum processing operations and auto body shops.

For area-, on- and off-road sources, the study will extrapolate from criteria to toxic emissions using chemical speciation profiles for given source types. These were obtained from CARB, the US Environmental Protection Agency (EPA) and Desert Research Institute (DRI). Once these are applied, a TAC emission inventory for all source types is created. The next step is to perform a risk weighting procedure for purposes of conducting modeling. Risk factors are used for cancer risk estimation involving a dose-response type of dynamic with a linear relationship. For non-cancer risks, reference concentrations are used: these identify a level below which no health effects are expected. There are two safety margins employed in this context: one for ranges of uncertainty, and another for expert judgment on the part of toxicologists.

The sources of information used to assemble risk factors and reference concentrations include CARB-approved risk assessment health values, EPA Office of Environmental Health Hazard Assessment (OEHHA), EPA integrated risk information system (IRIS) and risk assessment information system. Concentrations were selected, risk-weighted emissions were calculated and uncertainty ranges were identified. A database of risk-weighted emissions by TAC and source category was prepared.

The method of calculating risk-weighted emissions for a variety of compounds and variety of risks attempts to normalize the risk for modeling purposes. The calculation began with a mass-based emission for a given compound, to which a unit risk factor was applied for calculating cancer risk, or a reference concentration for calculating non-cancer risk. This method allows for weighting emissions to assess the greatest risk. Subsequently, exposure to population densities is evaluated in the context of the spatial allocation of emissions over a given area.

Each inventory is handled differently. Spatial allocation factors are used for area and non-road sources. For on-road mobile sources, a gridded emissions inventory was already available, and for point sources the geographic coordinates of facilities were also readily available. For the spatial allocation factors, geographic information systems (GIS) databases were used, including demographic data/population density, land-use/land-cover data sets to distinguish residential from agricultural use, line length (railroad tracks), facility locations and other GIS information. All of these were assembled and overlaid on a gridded domain. With each polygon in the grid, it is then possible to assign emissions to a grid cell based on an appropriate spatial surrogate.

The next step involved the application of the risk-weighted inventory on the gridded map for all source types. For cancer risk weighted emissions in the entire study domain, an estimated 16 pounds per day for all TAC species is emitted, 90% of which is chromium and diesel PM. However, there is a large uncertainty associated with this estimate of chromium insofar as the data assumes it is entirely the more toxic (VI) rather than more benign (III) type. Primary sources of chromium include fugitive

dust from construction as chromium is a constituent in cement. Ambient measurements suggest that the allocation of chromium VI and III is approximately 30/70%, respectively. Mr. Reid added that aircraft are also a large source of chromium.

In discussion, Dr. Bornstein cautioned that taking a conservative approach for chromium may produce overly-dramatic data. Mr. Kurucz urged that chemical speciation profiles be accurate, taking into account regulatory work in this region. Peter Hess, Deputy Air Pollution Control Officer, noted that these will be accounted for in the Quality Assurance-Quality Control (QA/QC) phase. Mr. Reid displayed a map showing where hot spots are for diesel PM emissions from heavy-duty truck traffic near shipping lanes and primary road networks.

For the estimated 25 tons per day of chronic risk-weight emissions, acrolein (which derives mainly from aircraft, on-road sources and combustion processes), phosphorous and formaldehyde constituted approximately 2/3 of the risk-weighted emissions. Source types include on-road mobile sources, construction and demolition, construction equipment, aircraft, livestock waste, fugitive windblown dust, paved road dust and farm equipment.

The strength of the TAC inventory for on-road mobile sources are that estimates were made with EPA-recommended methods and California-specific chemical speciations. Emissions from point sources were directly reported and spatial allocations applied to the modeling grid at a 2km x 2km resolution. Potential weaknesses of the TAC inventories include omission of some TACs, the extent to which uncertainty emerges from the application of chemical speciation profiles which themselves contain uncertainties, and the application of conservative assumptions about chromium emissions as being exclusively the more toxic VI than the benign III type.

Recommendations from these preliminary results include the prioritization of TACs, continued emission inventory development, adding emissions for any omitted TACs, and further investigation of emissions of chromium VI and IV from sources of fugitive dust.

Other geographic analyses can be conducted, such as emission inventory-based site evaluation in which diesel PM is selected and assessed in terms of specific population in a grid. The location of roadways and schools can be plotted for an initial analysis of a sub-region.

Dr. Saffet Tanrikulu, Modeling & Planning Section Manager, stated that staff will investigate the completeness of the data to ensure that all sources and source categories are included. Staff will perform QA/QC of the data, and will look at seasonal variations, annual averages and data variations. Staff will also evaluate uncertainty in the upper and lower bounds in the emission inventory and thereby improve the emission inventory.

Cuong Tran, Atmospheric Modeler, member of the staff's emission inventory

evaluation group, provided examples of QA/QC for the distribution of wood burning fireplace emissions, and on-road exhaust PM<sub>2.5</sub> in the Bay Area. He compared a plot of PM<sub>2.5</sub> emissions from fireplaces in the nine Bay Area counties using survey data and CARB methodology with a second plot based on 2000 Census data concerning homes where the primary heating fuel is wood. The two plots are at rather considerable variance. A separate illustration of different plots of exhaust PM<sub>2.5</sub> emissions from on-road sources leads to the conclusion that the use of the same vehicle miles traveled (VMT) fleet mix for all roadway links is suspect. It is necessary to improve VMT analysis of roadway types. Ms. Stromberg added that six months have been allocated to staff for QA/QC.

Mr. Tran displayed maps plotting population groups most sensitive to poor air quality (over age 64 and under age 18, and homes with incomes less than 185% of the federal poverty level) based on 2000 Census data. The areas with the greatest concentration of sensitive receptors are San Francisco, San Jose and a few areas in the East Bay. When income is included, some parts of East Bay are prominent, and again in the Chinatown and Tenderloin areas of San Francisco. Emission density data for various TACs will be superimposed on these demographic maps in order to study the impact of TACs on public health in the Bay Area.

Mr. Altshuler suggested that the modeling in the study be compared with ambient measurements. Ms. Stromberg replied that this will occur when further analysis is conducted of the District's PM filters by DRI, which is in the process of obtaining new equipment that can read filters for their hydrocarbon content. Gary Kendall, Technical Division Director, stated that the map plotted for San Francisco on PM<sub>2.5</sub> emissions from woodsmoke, based on survey data and the CARB methodology with its assumptions on the amount of wood burned, showed San Francisco with the highest concentration, whereas PM filter samples show San Francisco contributing little to filter mass from wood combustion. The observations do not corroborate estimates on the emission density map. A more extensive survey will be conducted this winter on wood burning in the Bay Area. Mr. Altshuler inquired about whether the program will address asthma, and Mr. Hess replied that the data will be submitted to county health officers.

In reply to questions, Amir Fanai, Senior Atmospheric Modeler, stated that the fleet mix for the motor vehicle emission inventory is not the same for every link in the Bay Area. According to available data, San Francisco has the highest truck level activity in the Bay Area. When areas of secondary concentration are opened up in further detail on the maps, additional areas of interest emerge, and provide a clearer idea of vehicle activity.

Chairperson Holtzclaw noted that elected officials from San Francisco and Oakland ought to take particular note of these preliminary results, as it suggests diesel bus emissions may be of greater importance than hitherto known. Mr. Altshuler replied that the installation of particulate traps, which reduce soot emissions, may also create an acute health problem with nitric oxide emissions on streets. Recent literature published in "Atmospheric Environment" has addressed this issue. This may be a

subject for future Advisory Council discussion.

- 3. Approval of Joint Committee Meeting Minutes of August 16, 2005.** Mr. Dawid requested that “clean diesel and hybrids” replace “diesel hybrids” in paragraph two on page five. Dr. Bedsworth requested that “severity” be replaced with “potency” in line eight of paragraph four on page two, with the sentence to end at “measured.” Chairperson Holtzclaw requested that “Dr. Wittenberg stated that” be inserted after “Registry” on line two of paragraph six on page three. Mr. Dawid moved adoption of the minutes, as corrected; seconded by Dr. Bedsworth; carried; with Mr. Altshuler abstaining.
- 5. Committee Member Comments/Other Business.** Mr. Dawid noted that AB 694 was passed by the Legislature. It allows the District’s Transportation Fund for Clean Air (TFCA) funds to be allocated to private fleets. He added that Council member Drennen has asked the Council to look into how the TFCA process could better support walking and non-motorized transportation. Mr. Kurucz stated that this month the 2006 Dow Jones Sustainability Index Review identified Intel as a leader for semi-conductors in the field of environmentalism and pollution prevention.
- 6. Time and Place of Next Meeting.** Air Quality Planning & Technical Committees Joint Meeting, 9:30 a.m., Wednesday, December 14, 2005, 939 Ellis Street, San Francisco, CA 94109.
- 7. Adjournment.** The meeting was adjourned at 11:46 a.m.

James N. Corazza  
Deputy Clerk of the Boards

:jc

AGENDA: 5d

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

DRAFT MINUTES

Advisory Council Public Health Committee Meeting  
1:30 p.m., Monday, October 24, 2005

- 1. Call to Order – Roll Call.** Chairperson Torreano called the meeting to order at 1:50 p.m. Present: Victor Torreano, Chairperson, Cassandra Adams, Jeffrey Bramlett Linda Weiner.
- 2. Public Comment Period.** There were no public comments.

**3. Approval of Minutes of August 15, 2005.** Chairperson Torreano moved approval of the minutes; seconded by Ms. Weiner; carried unanimously.

**4. Discussion of Work Plan Topics for 2006.** The Committee conducted a preliminary discussion of topics for consideration by the Council and the Public Health Committee for calendar year 2006. The Committee will recommend the following issues to the Council:

- Construction equipment and their impact on health.
- Heating, air-conditioning and refrigeration – evacuation of chloro-fluoro carbons (CFCs). It was suggested that Steven Moss, one of the 2005 Clean Air Champions, who founded the San Francisco Community Power Cooperative, make a presentation to the Committee since he is very knowledgeable on this subject.
- Aspects of Particulate Matter.
- Have a joint meeting with the other Committees to receive updates on the CARE Program.
- Receive updates on the status of the District's role on Indoor Air Quality (IAQ).

The Committee will also discuss Work Plan Topics for 2006 at the Council's Retreat in January, 2006, to receive additional ideas from other Council members.

**5. Committee Member Comments/Other Business.** Ms. Adams and Ms. Weiner stated that they will not be able to attend the Advisory Council Regular Meeting on November 9, 2005.

**6. Time and Place of Next Meeting.** The meeting for Monday, December 19, 2005 was cancelled. The Committee will meet next in January, 2006 at the Council's Retreat.

**7. Adjournment.** 2:35 p.m.

Neel Advani  
Deputy Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Townsend and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 16, 2005

Re: Joint Policy Committee Update

RECOMMENDED ACTION:

Receive and file.

DISCUSSION

At the November 30, 2005, meeting of the Executive Committee, Ted Droettboom 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

**BAY AREA AIR QUALITY MANGEMENT DISTRICT**

Memorandum

To: Chairperson Townsend and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 16, 2005

Re: Consider Recommending To The Board Of Directors Creation Of A Self-Insured  
Retiree Life Insurance Program

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RECOMMENDED ACTION:

Recommend to the Board of Directors that the Human Resources Officer move forward with implementation of a self-insured retiree life insurance benefit.

BACKGROUND

The District provides a life insurance benefit for retirees 70 years and older that is equivalent to one times their annual salary as an active employee. The insurance has been provided under the same vendor contract for nearly twenty years. The contract is currently with AIG. Under that contract, the District contributes money into a “pre-retirement” fund so that when the retiree (or active employee if they have not retired) reaches age 70 there is sufficient money set aside to move into a “post-retirement” account for the purpose of purchasing term life insurance. The District conducted an actuarial study that indicates that the same benefit could be provided at far less expense if the District simply held the contributions in an interest-bearing account and paid the death benefit rather than using the contributions to purchase term life insurance. This would amount to self-insuring the benefit.

DISCUSSION

There are at least three issues that would need to be addressed in order for the District to self-insure the retiree life insurance benefit: 1) Current State law is ambiguous as to the ability of public sector employers to self-insure a death benefit and might need to be changed; 2) the current contract with AIG includes a provision that would require the District to surrender up to 10% of the pre-retirement account balance upon cancellation of the policy; 3) the District would need to set up administration of a self-funding model, to include a means for properly investing the contributions.

In recognition of these issues and the length of time it would take to resolve them, staff has in the meantime pursued a more traditional cost-saving approach that involved the District’s broker, Driver Alliant, going out to bid for the retiree life insurance, as well as the regular life insurance and the long-term disability insurance. After receiving bids, the District opted to move all three insurances to Metropolitan Life Insurance, which offered to match the District’s coverage at an annual savings in premium costs of \$240,000. Driver Alliant was able to get a commitment from AIG to not invoke the cancellation charge except on amounts in the pre-retirement account that



are actually withdrawn by the District. Since the pre-retirement account is currently earning 5.25% interest with AIG, withdrawals sufficient to pay Met Life's premiums for retiree life insurance can be withdrawn each year with the expectation that the fund will replenish by the time a subsequent withdrawal is made the following year, thus making the retiree life insurance program self-sustaining using current assumptions.

### **Update on Self-Insurance for Workers' Compensation**

For the fiscal year ending June 30, 2005, the District achieved approximately \$700,000 in savings on workers' compensation costs. Of that amount, \$620,000 was due to savings on insurance premiums and \$80,000 was due to the District's demand that State Compensation Insurance Fund re-audit the District's payroll for FY 2004-05 due to staff's discovery of major errors in the original audit; the re-audit resulted in a refund on the premium's paid for FY 2004-05. All District staff is to be commended for working safely last fiscal year.

### **BUDGET CONSIDERATION/FINANCIAL IMPACT**

The change in insurance carriers will result in approximately \$180,000 in savings on benefit costs this fiscal year, and an ongoing savings of approximately \$240,000 annually. Self-insuring the retiree life insurance program could realize additional savings of as much as \$3 million on the value of the benefit for the current population of employees.

### **SUMMARY**

Staff has achieved significant savings moving to a self-insurance model for workers' compensation. An actuarial study indicates that significant savings are possible by using a self-insurance model for retiree life insurance. Certain issues would need to be addressed that would involve an investment of staff and consultant time to move forward with the self-insurance model. In the meantime, staff has re-worked the District's traditional insurance to save money. Staff is asking the Executive Committee to consider recommending to the Board of Directors that staff proceed to attempt implement a self-insurance model for the retiree life insurance benefit.

Respectfully submitted,

Jack P. Broadbent  
Executive Office/APCO

Prepared by: Michael K. Rich

**BAY AREA AIR QUALITY MANGEMENT DISTRICT**

Memorandum

To: Chairperson Marland Townsend and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 18, 2005

Re: Status of Phase One Implementation of Video-Conferencing Equipment and  
Installation in the 4<sup>th</sup> Floor Conference Room

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RECOMMENDED ACTION:

Informational report. Receive and file.

BACKGROUND

At its February 16, 2005 meeting, the Board of Directors approved phase one implementation of video-conferencing in the 4<sup>th</sup> floor conference room, including approval of a purchase order not to exceed \$28,653 to Commercial Video.

The Budget and Finance Committee at its October 28, 2005 meeting requested that this item be referred to the Executive Committee for review once the proposed plans were received by staff. The phase one plan includes two 50" display panels mounted on the West walls, with the camera mounted over one of the panels. The equipment and switchgear will be contained in existing cabinetry and in closet space.

DISCUSSION

Upgrades to the room's lighting are complete and acoustical upgrades will follow with a total cost of approximately \$3,000 out of already budgeted general facilities and maintenance expense. This is a requirement to obtain the best possible video and audio. These costs are additional and not part of the bid.

Additionally, the room requires a dedicated T1 line. The cost of the line is approximately \$700 per month - \$8,400 annually. The monthly fee will apply whether the line is used or not as it will be a dedicated line.

BUDGET CONSIDERATION/FINANCIAL IMPACT

The FY 2004/2005 Capital Budget was increased by \$28,653 and the ISS Budget was increased by \$8,400 with a transfer from the Reserve for Contingency to fund this project. As transfers from reserves, these funds have been carried over into the FY 2005/2006 Budget.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Jeff McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Townsend and Members  
of the Executive Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: November 16, 2005

Re: Replacement of DataBank and IRIS

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

The Air District is in the process of replacing its legacy software applications, DataBank and IRIS. These systems carry out business processes in Planning, Permitting, Inspection and Emission Inventory.

The Air District first implemented the DataBank application in 1977. This application pre-dates relational database technology, and stores information in flat files. In 2001 the District implemented the IRIS application, partially relieving Databank of some function. The migration to modern technology must continue for the District to fulfill its mission.

In prior presentations, the Executive Committee has reviewed the early general direction of this work and approved a pilot process.

DISCUSSION

A review of architectural options produced a “360” view of these options. Expertise was sought from an industry vertical perspective, a Web Services Perspective, and from a Business Process/Document Management perspective.

A review of the District’s functional needs resulted in substantial documentation on the functional capabilities to be sought in vendor products. The resulting field of eight vendors was invited to reply to a Request For Information (RFI).

Based upon the responses to the RFI, four of the eight responding vendors were invited to move to the next step. Each was provided with a detailed District business process scenario script and asked to present a four-hour demonstration of that script with their toolset. Based upon these presentations, two of the vendors, Hyland and Opentext, have been selected to proceed with the Pilot implementations.

Beginning in the first quarter of 2006, these vendors will each build a pilot system based upon specifications provided by the District. These systems will be built within the District facility to ensure that District staff participate in the work and become familiar with the products. Once built, the systems will be used as demonstration platforms for District staff to illustrate the features and functions, as well as any strengths or weaknesses of the products. At the end of this evaluation period the final product will be selected and the final implementation phase will begin. The product selection processes will include contract and financial negotiation with the vendors, and the creation of an implementation schedule.

Simultaneously the District has been working to re-architect its database structure. This work is necessary to facilitate the migration from Databank. The Databank system predates relational database technology.

In a third parallel track, the District has been working on business process re-engineering. This process documentation forms both a key component of the Pilot scenario and also a necessary adjunct to the database architecture design process.

#### BUDGET CONSIDERATION/FINANCIAL IMPACT

In the 04/05 fiscal year the Board approved a transfer of \$140,000 out of the Reserve for Production System. In the current fiscal year, the Board has approved a transfer of \$250,000 out of the Reserve for Production System. \$1,710,000 remains in the Reserve for Production System.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Jeff McKay