



BOARD OF DIRECTORS  
STATIONARY SOURCE COMMITTEE MEETING

COMMITTEE MEMBERS

BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

SCOTT HAGGERTY – CHAIRPERSON    MICHAEL SHIMANSKY - VICE CHAIRPERSON  
JOHN GIOIA  
JERRY HILL  
JAKE MCGOLDRICK  
NATE MILEY  
JOHN SILVA  
PAMELA TORLIATT  
GAYLE B. UILKEMA

FRIDAY  
JUNE 15, 2007  
9:30 A.M.

FOURTH FLOOR CONFERENCE ROOM

**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 Board's authority. Speakers will be limited to three (3) minutes each.*
3. **APPROVAL OF MINUTES OF APRIL 16, 2007**
4. **STATUS REPORT ON FLARE MINIMIZATION PLANS REQUIRED UNDER REGULATION 12, RULE 12: FLARES AT PETROLEUM REFINERIES**  
**K. Wee/4760**  
[kwee@baaqmd.gov](mailto:kwee@baaqmd.gov)  
*Staff will present petroleum refinery flare emission trends for the five Bay Area refineries and discuss the Flare Minimization Plans submitted by the refineries to reduce the frequency and magnitude of flaring.*
5. **PROPOSED NEW REGULATION 6, RULE 2: COMMERCIAL COOKING EQUIPMENT**  
**H. Hilken/4642**  
[hhilken@baaqmd.gov](mailto:hhilken@baaqmd.gov)  
*The Committee will discuss proposed Regulation 6, Rule 2: Commercial Cooking Equipment work plan.*
6. **COMMITTEE MEMBER COMMENTS/OTHER BUSINESS**  
*Any member of the Board, 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).*
7. **TIME AND PLACE OF NEXT MEETING - AT THE CALL OF THE CHAIR**
8. **ADJOURNMENT**

**CONTACT CLERK OF THE BOARD - 939 ELLIS STREET SF, 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 3 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 Haggerty and Members  
of the Stationary Source Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: June 7, 2007

Re: Stationary Source Committee Draft Minutes

RECOMMENDED ACTION:

Approve attached draft minutes of the April 16, 2007 meeting of the Stationary Source Committee.

DISCUSSION

Attached for your review and approval are the draft minutes of the April 16, 2007 meeting of the Stationary Source Committee.

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  
Stationary Source Committee Meeting  
9:30 a.m., Monday, April 16, 2007

1. **Call to Order – Roll Call:** Chairperson Scott Haggerty called the meeting to order at 9:45 a.m.

**Present:** John Gioia, Jerry Hill, Jake McGoldrick, Nate Miley, Michael Shimansky, John Silva, Pamela Torliatt.

**Absent:** Gayle B. Uilkema.

**Also Present:** Mark Ross, Board Chair.

2. **Public Comment Period:** There was none.
3. **Approval of Minutes of March 8, 2007:** Director Gioia moved approval of the minutes; seconded by Director Hill; carried unanimously without objection.
4. **Status Report Regarding Flare Minimization Plans Required Under Regulation 12, Rule 12: Flares at Petroleum Refineries:** *Staff reported on the status of Flare Minimization Plans.*

Kelly Wee, Director of Compliance and Enforcement thanked the Committee for adopting the first rule of its kind to control petroleum refinery flare emissions.

Through a Flare Minimization Plan (FMP) the rule minimizes the frequency and magnitude of flaring. Petroleum refineries are a complex industry where no flare system is the same. The rule recognizes the different refinery flare systems and allows the FMP's to be uniquely tailored to each refineries operational needs, experience running their systems without flaring and the different flare systems themselves.

The cornerstone of the FMP is the prevention measures the refineries will incorporate into their operations to minimize flaring. These measures can be operational such as taking more time to startup or shutdown a process unit, or the prevention measure can be equipment related; such as adding additional compressor capacity to the flare system.

Compressors compress gas into treatment systems where the gases are cleaned or scrubbed before being used in refinery boilers and heaters. When the gases exceed the capacity of the compressors, or when the vent gases are inappropriate to be used in fuels, the vent gases are released through the water seal and burned in the flare. These flares, the water seals, the

compressor capacities and the gas treatment scrubbing system and also the ability to use the treated fuel are all important components to reducing emissions from flaring of vent gases.

The District's Flare Control Rule Regulation 12, Rule 12: prohibits flaring unless the flaring is caused by an emergency or is consistent with a refinery's Flare Minimization Plan (FMP). Refineries must notify the District when the volume of vent gas flared at the refinery exceeds 500,000 cubic feet. Causal analysis is conducted on flaring events that exceed 500,000, or when emissions have exceeded 500 pounds of sulfur dioxide emissions. Refineries must also monitor their water seals at the flares to ensure that there are no vent gases going to the flare that are undetected.

The rule requires that each of the refineries prepare and submit a FMP. The plan must contain basic design information including process flow diagrams of the refinery flare systems, descriptions of refinery compressor operations, descriptions of refinery fuel gas balance and flare gas recovery system base loads. Annual updates will ensure that new technologies and practices will be implemented and identified in a process of continuous improvement.

The next steps include holding public informational meetings. The purpose of these meetings is to provide additional information to help the public comment on these complex documents. Most documents are more than 100 pages and the Air District hopes to provide information to make the process more meaningful to the public. The public comment period will end on May 31, 2007. A plan will only be approved if the Air Pollution Control Officer (APCO) determines that all feasible flaring prevention measures have been considered and incorporated. The schedule includes 5 upcoming meetings.

There was extensive discussion on this item with regard to prevention measures. The Committee had questions with regard to the FMP process and requested that staff provide a report at a future meeting.

**Committee Action:** Director Gioia requested that data for the refineries be reported by facility, and that the information include before and after, in terms of volume, and percentage reductions and the history prior to 2004 to the extent the Air District has data. In addition, staff will provide a thorough explanation of each facility, their challenges and how others were able to move faster.

**Speakers:** The following individuals spoke on this agenda item:

Jen Ahlskog  
ConocoPhillips  
1380 San Pablo Avenue  
Rodeo, CA 94572

Denny Larson  
National Refinery Reform Campaign  
739 Cortland  
San Francisco, CA 94110

Dennis Bolt  
WSPA  
785 Oak Grove Rd, #306  
Concord, CA 94518

Angelina Martinez  
Communities for a Better Environment (CBE)  
115 Worthing  
Hercules, CA 94547

Rose Marie Castro  
15 Collins Ct.  
Richmond, CA 94801

Carla M. Perez  
CBE  
1440 Broadway #701

Oakland, CA 94612

Walt Gill  
Chevron  
841 Chevron Way  
Richmond, CA 94802

Marleen Quint  
Patient Research Adv.  
Communities for a Better Environment (CBE)

Ruth Gilmore  
Communities for a Better Environment (CBE)  
Richmond, CA 94801

Richard Quiros  
Chevron  
841 Chevron Way  
Richmond, CA 94802

Greg Karras  
Communities for a Better Environment (CBE)  
1440 Broadway  
Oakland, CA 94612

Delphine Smith  
Communities for a Better Environment (CBE)  
1440 Broadway, Ste. 701  
Oakland, CA 94621

Jessica Tovar  
Communities for a Better Environment (CBE)  
Oakland, CA 94612

5. **Committee Member Comments/Other Business:** Director Torliatt stated that her understanding is that the refineries are producing so much gas, that they do not have the capacity to handle the amount of flares or the gases produced to handle it, e.g., not enough compressors. She asked what needs to be built in order to reduce flaring.

Director Ross thanked Mr. Broadbent and staff for their continued efforts on this issue.

Chairperson Haggerty recommended moving Agenda Item 5 to the next meeting.

6. **Time and Place of Next Meeting:** 9:30 a.m., Friday, June 15, 2007 at 939 Ellis Street, San Francisco, CA 94109
7. **Adjournment:** The meeting adjourned at 11:10 a.m.

Vanessa Johnson  
Acting Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Haggerty and Members  
of the Stationary Source Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: June 6, 2007

Re: Status Report on Flare Minimization Plans required under Regulation 12,  
Rule 12: Flares at Petroleum Refineries

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

Emissions from flaring at petroleum refineries have been an ongoing concern to the Bay Area Air Quality Management District and to residents of the communities in the neighborhoods surrounding the refineries. Regulation 12, Rule 12 seeks to reduce emissions at petroleum refineries by minimizing the frequency and magnitude of flaring. As flares are first and foremost safety devices they must be available for use in emergencies. Staff believes that Regulation 12-12 provides the best framework to achieve emissions reductions while providing refineries with sufficient flexibility to operate safely.

The regulation prohibits the non-emergency use of a refinery flare unless that use is consistent with an approved Flare Minimization Plan ("FMP" or "Plan"). Each Flare Minimization Plan must be approved by the District's APCO/EO and must include:

- Information regarding the design and operation of the facility as it relates to flaring;
- Description of the prevention measures previously taken that permanently capture current emission reductions and planned measures to further reduce flare emissions at the refinery; and
- Commitments to implement all additional feasible prevention measures expeditiously.

## DISCUSSION

Staff will provide the Committee with the following information:

- Emission trends at refinery facilities from 2001 to present.
- Major prevention measures that will be implemented as part of flare minimization plans (FMP) at Bay Area refineries.
- Summary of comments received during the 60-day public comment period
- The "next steps" in the FMP process

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Damian Breen  
Reviewed by: Kelly Wee

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Haggerty and Members  
of the Stationary Source Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: June 6, 2007

Re: Further Information on Commercial Cooking Operations

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

On May 16, 2007, the Board of Directors conducted a public hearing to consider adoption of proposed new Regulation 6, Rule 2: Commercial Cooking Operations. The Board referred the item to the Stationary Source Committee for further discussion.

DISCUSSION

At the hearing, a number of questions were raised. Staff will provide the Committee with more information on some of the questions raised and will outline the process for gathering additional information before returning to the Board of Directors for another hearing on the proposed regulation.

Staff will present information on:

- Emission factors from various meats;
- Particulate matter emissions from commercial cooking operations in relation to total particulate matter in the Bay Area;
- Restaurant profit margins;
- Carbon adsorption technology.

In addition, staff intends to survey Bay Area restaurants to collect information about charbroiler grill sizes and meat types and quantities of meat cooked. Staff also will be discussing the proposal with the Golden Gate Restaurant Association, the California Restaurant Association and other interested parties.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Daniel Belik  
Reviewed by: Henry Hilken