



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

BOARD OF DIRECTORS  
STATIONARY SOURCE COMMITTEE MEETING

COMMITTEE MEMBERS

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

**THURSDAY  
MARCH 8, 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 NOVEMBER 28, 2006**
4. **PROPOSED NEW REGULATION 6, RULE 2: COMMERCIAL COOKING EQUIPMENT**    H. Hilken/4642  
[hhilken@baaqmd.gov](mailto:hhilken@baaqmd.gov)  
  
*Staff will report on proposed Regulation 6, Rule 2: Commercial Cooking Equipment. A second public workshop on the proposal will be held on March 6, 2007.*
5. **PROPOSED AMENDMENTS TO REGULATION 9, RULE 8: NITROGEN OXIDES AND CARBON MONOXIDE FROM STATIONARY INTERNAL COMBUSTION ENGINES**    H. Hilken/4642  
[hhilken@baaqmd.gov](mailto:hhilken@baaqmd.gov)  
  
*Staff will report on proposed amendments to Regulation 9, Rule 8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines. A public workshop on the proposal was held on March 1, 2007.*
6. **COMPREHENSIVE STRATEGY FOR WOOD SMOKE EMISSION REDUCTION**    K. Wee/4760  
[kwee@baaqmd.gov](mailto:kwee@baaqmd.gov)  
  
*Staff will present the District's comprehensive strategy for wood smoke emission reduction from residential wood burning and discuss the proposed regulatory control measures and proposed timeline for rule development.*

7. **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).*

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

9. **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: February 23, 2007

Re: Stationary Source Committee Draft Minutes

RECOMMENDED ACTION:

Approve attached draft minutes of the Stationary Source Committee meeting of November 28, 2006.

DISCUSSION

Attached for your review and approval are the draft minutes of the November 28, 2006, Stationary Source 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  
Stationary Source Committee Meeting  
9:30 a.m., Monday, November 28, 2006

1. **Call to Order – Roll Call:** Board Chair Gayle B. Uilkema called the meeting to order at 9:35 a.m.  
  
**Present:** Gayle B. Uilkema, Board Chair, Tom Bates, Jerry Hill, Janet Lockhart (9:51 a.m.), Jake McGoldrick (9:49 a.m.), Mark Ross, Michael Shimansky, Tim Smith.  
  
**Absent:** Erin Garner, John Silva.  
  
**Also Present:** Pamela Torliatt (9:52 a.m.).
2. **Public Comment Period:** There were none.
3. **Approval of Minutes of September 25, 2006:** Director Shimansky requested his name be added to page two of the minutes indicating his arrival time at 9:48 a.m. Director Hill moved approval of the minutes, as amended; seconded by Director Bates; carried unanimously without objection.
4. **Proposed Amendments to Regulation 9, Rule 9: Nitrogen Oxides from Stationary Gas Turbines:** *Staff reported on proposed amendments to Regulation 9, Rule 9: Nitrogen Oxides from Stationary Gas Turbines. A public hearing on the amendments is scheduled for December 6, 2006.*

Guy Gimlen, Air Quality Engineer, presented the report and noted that there are 155 permitted gas turbines in the Air District and that they emit 6.5 tons/day of NOx. An overview of the rule development process was provided. The Air District received three written comments and staff will develop responses to them.

Amendments are proposed for the largest turbines, large turbines, mid-sized turbines, and small turbines. There are no proposed changes for small turbines that run at less than 55 MM Btu/hr. Staff is currently evaluating written comments and the Board of Directors' public hearing on the regulation is scheduled for Wednesday, December 6, 2006.

In response to a question from Director Smith, Mr. Gimlen stated that the implementation of the rule will reduce emissions from 6.5 tons/day to 5.8 tons/day.

Director Jake McGoldrick arrived at 9:49 a.m., Director Janet Lockhart arrived at 9:51 a.m., and Director Pamela Torliatt arrived at 9:52 a.m.

In response to a question from Director Hill regarding four turbines at San Francisco International Airport (SFO), Brian Bunger, Counsel, stated that the Air District has applications for three turbines, but there is no application for the fourth turbine as yet.

Director Bates requested information with regard to what other air districts are doing on regulations for turbines.

The following individual spoke on this agenda item:

Dennis Bolt  
WSPA

**Committee Action:** The Committee received and filed the report.

5. **Proposed New Regulation 6, Rule 2: Commercial Cooking Equipment:** *Staff reported on proposed Regulation 6, Rule 2: Commercial Cooking Equipment. Public workshops on the new rule proposal were held on November 14 and 15, 2006.*

Henry Hilken, Director of Planning, Rules and Research, introduced the item and stated that staff has developed regulatory language for this new rule and two workshops have been held.

Virginia Lau, Senior Air Quality Specialist, presented the report and provided background information on the development of the new rule. Three California air district have rules to control emissions from chain-driven (conveyorized) charbroilers. Workshops on the regulation were held on November 14 and 15, 2006. Ms. Lau provided information on the type of equipment that would be regulated and information on Bay Area restaurant emissions.

Ms. Lau noted that the workshops on the proposed rule allow the restaurants adequate time to comply and minimizes the impact on the restaurant. Ms. Lau provided an overview of additional public outreach done regarding the proposed rule. Sample filter equipment was shown to the Committee. A review of the different requirements for chain-driven charbroilers and Type I hoods was provided.

A number of public comments have been received and staff will respond to all of the comments after the public comment period closes on December 1, 2006. The next steps in the rule development process were highlighted and the public hearing to consider the proposed new rule will be scheduled for early 2007.

**Committee Action:** The Committee accepted the report.

6. **Proposed Amendments to Regulation 9, Rule 8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines:** *Staff reported on the development of proposed amendments to Regulation 9, Rule 8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines.*

Mr. Hilken introduced the item and stated that staff has been working on amendments to Regulation 9, Rule 8 which would reduce emissions from internal combustion engines. Public workshops on the rule will be conducted early next year.

Victor Douglas, Senior Air Quality Engineer, presented the report and described the affected facilities and equipment. Mr. Douglas provided a breakdown of the types of engines in the Bay Area, including prime and emergency standby and noted that the majority of internal combustion engines are diesel engines. The emissions inventory shows that NOx emissions from diesel, natural gas, landfill gas, and digester gas total 20.9 tons per day. This includes emergency standby diesel engines.

The current regulation affects approximately 200 engines. The regulatory activities since the 1993 adoption of the rule were reviewed. Mr. Douglas reviewed the Environmental Protection Agency's (EPA's) off-road tiered NOx emission standards for new diesel engines.

Proposed regulatory concepts were discussed and include lower NOx limits that would expand the number of engines covered under the regulation from 200 to over 700. In addition, smaller engines that are currently exempt would be affected. NOx emissions reductions by engine type were presented, with total reduction from all engines at 13.4 tons per day. The cost per engine is approximately \$7500.

The next steps include a public workshop in January 2007, preparation of the final proposal, preparation of CEQA and economic analyses, and the public hearing to consider the proposed amendments to the regulation will be conducted in the second quarter of 2007.

**Committee Action:** The Committee received and filed the report.

**7. Compliance Program FY 05-06 Year in Review:** *Staff provided an overview of one of the District's core programs, the Compliance Program.*

Kelly Wee, Director of Compliance and Enforcement, presented the report and stated that there are multiple programs that span several Divisions. The figures provided in the report are for fiscal year 2005/2006. Mr. Wee provided a summary of the number of activities completed, such as total inspections, source tests, and laboratory analysis. Mr. Wee noted that a significant portion of air pollution complaints are from odors and that a new category, rail yards, has been added.

The number of inspections completed was reviewed, with asbestos inspections being the greatest number. A total of 359 laboratory analyses were conducted, again with asbestos being the greatest number. Mr. Wee provided a summary of violations, of which there were 801 Notices of Violation issued, 390 Notices to Comply, and 18 Hearing Board cases.

Brian Bunger, Counsel, reviewed small claims cases, penalty settlements and penalties. Mr. Wee then provided figures on violation categories, such as storage tanks and dry cleaners. A chart summarizing the compliance program was reviewed and Mr. Wee noted a new category on Title V deviations. Compliance rates were also reviewed.

The Committee requested that staff provide a comparison of past years to see if there is a trend on inspections and violations issued. Mr. Wee stated that inspections have dropped due to the

Flare Minimization Plans that the inspectors need to review. Also, Pacific Steel Casting is a significant case and there are from six to 12 inspectors assigned to the matter. Director Bates requested a summary of what actions have been taken regarding Pacific Steel Casting. Mr. Wee stated that he can provide a two-page summary of those actions. Director Uilkema requested that the summary be at each Board member's place at the next Regular Board meeting.

**Committee Action:** The Committee received and filed the report.

8. **Committee Member Comments/Other Business:** There were none.
9. **Time and Place of Next Meeting:** At the Call of the Chair
10. **Adjournment:** The meeting adjourned at 11:03 a.m.

Mary Romaidis  
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: February 23, 2007

Re: Proposed Regulation 6, Rule 2: Commercial Cooking Equipment

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

The District committed to study control of emissions from commercial charbroiling in the 2005 Ozone Strategy and further committed to develop such a control measure in the SB 656 Particulate Matter (PM) Implementation Schedule. Staff has investigated potential controls for cooking emissions and has developed draft regulatory language. The District held four public workshops on draft rule language for proposed Regulation 6, Rule 2: Commercial Cooking Equipment on November 14 and 15, 2006. Local restaurant owners as well as major ventilation hood manufacturers and restaurant industry representatives have provided both verbal and written comments on the proposed rule.

Based on the comments received, the District has revised the regulation with respect to under-fired charbroilers. The District posted a Public Workshop Notice and revised rule language on February 14, 2007 and will conduct a public workshop on March 6, 2007.

DISCUSSION:

Staff will provide the Committee with the following information:

- Overview of revised proposed Regulation 6, Rule 2;
- Summary of comments received during the public workshops; and
- Next steps in the rule development process.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Virginia Lau  
Reviewed by: Daniel Belik



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: February 23, 2007

Re: Proposed Amendments to Regulation 9, Rule 8: Nitrogen Oxides and  
Carbon Monoxide from Stationary Internal Combustion Engines

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

Regulation 9, Rule 8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (Rule 9-8) sets standards for emissions of nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) from stationary internal combustion (IC) engines. The 2005 Ozone Strategy includes Further Study Measure 15, which is a commitment to evaluate whether additional controls to further reduce emissions from stationary IC engines are feasible. In addition, the District's SB 656 Particulate Matter (PM) Implementation Schedule includes revisions to Rule 9-8 as a control measure. Stationary IC engines are similar to engines used for mobile sources such as heavy duty trucks, except they are used at stationary sources such as water treatment facilities, sanitation districts, fire and police departments, educational institutions, refineries, chemical manufacturers, commercial and residential buildings, and in agricultural operations. IC engines are used as both primary and backup engines to generate electricity and power pumps and compressors.

Staff discussed the regulatory background and uses of IC engines at the Stationary Source Committee Meeting on November 28, 2006. Staff has developed proposed amendments to Rule 9-8 and will present the proposal for discussion and comment at a public workshop on March 1, 2007. Staff has also met with engine operators, business associations, and engine manufacturers to solicit input on the proposal.

DISCUSSION:

Staff will provide the Committee with the following information:

- Description of the affected facilities and equipment;
- Comparison of compression-ignited (diesel) and spark-ignited (natural gas) engines;
- Proposed regulatory amendments;
- Summary of the March 1, Public Workshop and comments received; and
- Next steps in the rule development process.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Victor Douglas  
Reviewed by: Daniel Belik

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: February 28, 2007

Re: Comprehensive Strategy for Wood Smoke Emission Reduction

RECOMMENDED ACTION:

Receive and file.

BACKGROUND

District regulations have historically excluded fires for residential heating from any air pollution control. However, ambient air monitors indicate that residential wood smoke contributes to an overall wood smoke atmospheric burden comprising up to 30% to 40% of peak PM<sub>2.5</sub> levels during the winter months. Cold, stable winter nighttime inversions allow pollutants to accumulate in the lower levels of the atmosphere. The District's Spare the Air Tonight season started on November 20 and ended on February 16 with 27 occurrences that exceeded the new 35 µg/m<sup>3</sup> 24-hr National standard.

The District will likely be non-attainment for the National standard. The District is therefore proposing a comprehensive wood smoke strategy involving three approaches to reduce residential wood smoke, including: increase public outreach, incentives to replace old, higher emitting wood stoves, and regulatory control measures.

DISCUSSION

Staff will provide the Committee with the following information:

- Applicable regulations and strategies adopted by other California air districts and the Puget Sound Clean Air Agency in Seattle, Washington;
- Ambient PM<sub>2.5</sub> levels in the Bay Area and emissions from wood burning;
- Outreach, incentives and regulatory control measures options; and
- Projected rule development process and timeline.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Janet Glasgow  
Reviewed by: Kelly Wee