



South Coast Air Quality Management District

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Airports Air Quality Study Advisory Committee December 2, 2004 Meeting Minutes

Members Present

Todd Campbell
Gretchen Hardison
Mike McDaniel
Rod Merl
Sean Petersen
Dennis Quilliam
Martin Rubin
Lin Wang

Affiliation

Coalition for Clean Air
City of Los Angeles – EAD
Million Air Van Nuys
Santa Monica Airport
Assembly Member Fran Pavley
Los Angeles World Airport
Concerned Residents Against Airport Pollution
Los Angeles World Airport

Others Present

Michael Geller
Ping Ho
Brian Johnson
David Kaplan
Matt Majoli
Paul Brix Nielsen
Maryjane Puffer
Paul Roberts
Martin Tachiki
Robert Trimborn
Joan Winters
Linda Wolin

USC
UCLA
City of Santa Monica
Santa Monica Airport Commission
Santa Monica Airport
Concerned Residents Against Airport Pollution
Concerned Residents Against Airport Pollution
Sonoma Technology, Inc.
Santa Monica City Attorney's Office
Santa Monica Airport
Concerned Residents Against Airport Pollution
Assembly Member Mike Gordon

AQMD Staff

Rudy Eden
Henry Hogo
Jeannette Holtzman
Gale Jones
David Madsen
Bradley McClung
Tom Parsons
Solomon Tefferer
Mark Von Der Au

Clean Air Is Every Body's BusinessSM

1. Introduction

Mr. Henry Hogo began the meeting and briefly described the study. In summary, the study is an air measurements program focusing on the communities around Santa Monica and Van Nuys general aviation airports. Air measurements will be conducted to characterize the current air toxic levels in the airports' vicinity. The study is funded mainly from a U.S. EPA grant. U.S. EPA's interest is to develop a database of air toxics measurements at various urban areas throughout the nation.

Some general questions were asked about the study and were addressed in later staff presentations. Mr. Martin Rubin provided a list of questions and general information that he had collected over the last several years.

Questions were raised regarding ultrafine particles and whether such particles would be measured as part of the current study. Staff indicated that ultrafine particle measurements are beyond the scope of the current study. However, staff will look into whether such measurements could be conducted if additional resources are available. Staff indicated that they will communicate with the California Air Resources Board and UCLA to coordinate efforts at measuring ultrafine particles.

2. Overview of Airports

Mr. Tom Parsons provided a detailed discussion on the study (see attached presentations). The MATES II (Multiple Air Toxics Assessment Study II) was used as an example of the type of toxics air contaminant program AQMD staff has conducted in the past. The MATES III program was also described and basin-wide data from MATES III will be used to compare the study measurement to the air quality in the rest of region.

Sampling for the study is expected to begin sometime in late Spring of 2005 and run during the summer months. Sampling will also be conducted during the late Fall of 2005 to address seasonality concerns. The sampling design will consist of two air toxics platforms similar to a MATES III microscale site and up to three other community sampling sites where more limited number of samplers will be deployed.

Mr. Solomon Teffera then described the actual sampling program. The samplers that will be used in the project will monitor PM_{2.5}, PM₁₀, carbonyls, VOCs, lead, hexavalent chromium and weather parameters. Sampling periods are proposed to be on 24-hour integrated intervals and the frequency of the sampling will be every third day (one day in three schedule).

Questions were raised regarding the 24-hour sampling period given the diurnal nature of airport operations and whether a shorter sampling period would be more appropriate. Staff indicated that they will consider a shorter sampling interval. AQMD staff would like to review the airport activity information and make a decision on the sampling interval.

Many of the questions and comments from the committee and other attendees were discussed as part of Items 1 and 2. Several comments were made about the actual parameters to be measured in this project. Other important pollutants mentioned by attendees were acrolein, continuous BAM particulates, and continuous CO or NOx measurements. The continuous analyzers would better serve to depict the instantaneous spiking of pollutants that would not be easily observed using 24 hour time integrated sampling techniques. Also, continuous data could be synchronized with wind speed and direction data to prove the source of pollutant peaks. Locations to monitor focused on down wind areas where highest fume incidents have been reported by residents.

3. Discussion

Other comments about measurements included: a suggestion to perform an intensive sampling program of a week, or two, with a wider array of instrumentation; a request to continue MATES III monitoring at one site after MATES III is finished to prove that data comparisons to the MATES III averages are valid for the period of the airport sampling program; and coordination of the sampling with the CARB/UCLA LAX sampling program projected to occur in May and November of 2005.

Several airport specific comments were made by attendees of the meeting. One comment was that Van Nuys airport is surrounded by many major pollution sources that operate 24 hours a day, seven days a week and that this will complicate a measurement project at Van Nuys airport. The Van Nuys airport sampling program will require FAA approval should sampling be conducted on airport property. At Santa Monica airport, sampling platforms will need to be located slightly below the grade of the runway on the service road.

4. Action Items

Several action items resulted from this meeting. AQMD staff will prepare and distribute the meeting minutes. In addition, staff will provide a table summarizing the pollutants to be measured, and to investigate the feasibility of acrolein measurements. Staff will consider the question on ultrafine particle measurements. Committee members were requested to provide a list of potential community sampling sites.

5. Future Meeting

The next meeting is set for January 13, 2005 at 10:00 a.m. at the Van Nuys Airport Sound Proofing Office adjacent to the Administration Building.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

**AIRPORTS AIR QUALITY STUDY
ADVISORY COMMITTEE MEETING**

AGENDA

January 13, 2005

10:00 a.m.

**Van Nuys Airport
Sound Proofing Office Conference Room
16525 Sherman Way, Suite C1**

- 1. Welcome** *Henry Hogo*

- 2. Ultrafine Particle Measurement Discussion** *Tom Parsons*

- 3. Airport Sampling Plan Proposal** *Solomon Teffera*

- 4. Proposed Measurement Locations** *Tom Parsons*

- 5. Open Discussion**

- 6. Next Meeting**
Date: February 24, 2005

