

# SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

For the Agenda of: April 27, 2006

To: Board of Directors  
Sacramento Metropolitan Air Quality Management District

From: Larry Greene  
Air Pollution Control Officer

Subject: Approval of AB 1222 Remote Sensing Pilot Program Advisory Group Members

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## **Recommendation**

Approve the membership appointments as provided in Table 1 to the Advisory Group for Assembly Bill (AB) 1222 Locomotive Remote Sensing Pilot Program.

## **Purpose**

1. Approve the members that have been appointed to AB 1222 Advisory Group on remote sensory emission technology, as shown in Table 1. South Coast Air Quality Management District (SCAQMD) and Sacramento Metropolitan Air Quality Management District (SMAQMD) to appoint seven members to the advisory group. Five of the members represent the SCAQMD region and two represent the SMAQMD. The members were chosen as provided in AB 1222. The SCAQMD will be taking a similar action relative to the seven appointments shown in Table 1.
2. Authorize and direct the APCO to take all steps necessary to carry out the provisions of this resolution.

**Table 1: AB 1222 Advisory Group Membership Appointments for SCAQMD and SMAQMD.**

<b><u>Member</u></b>	<b><u>Title</u></b>	<b><u>Affiliation</u></b>
James R. Hazelton	SCAQMD Technical Consultant	Hazelton Consulting, Ltd
Douglas Lawson	SCAQMD Technical Consultant	National Renewable Energy Laboratory
Chung Liu Alternate: Dean Saito	Deputy Executive Officer SCAQMD	SCAQMD
Angelo Logan Alternate: Sylvia Betancourt	Community Representative SCAQMD	East Yard Community for Environmental Justice
Penny Newman Alternate: Rachel Lopez	Community Representative SCAQMD	Center for Community Actions and Environmental Justice
Larry Greene Alternate: Tom Christofk or Designated Representative	Executive Officer	SMAQMD
Franklin Weinstein	Community Representative SMAQMD	Sacramento Area Community Member

## **Authority**

AB 1222 (Jones) signed into law in 2005 (Health and Safety Code section 39940 et. seq.), directs California Air Resources Board (CARB) to implement a pilot program to determine the feasibility of using remote sensing technology to quantify emissions from locomotives. The specific objectives of the pilot program are to ascertain whether remote sensing technology can: (1) accurately measure nitrogen oxides (NO<sub>x</sub>), particulate matter (PM), and carbon monoxide (CO) emissions from locomotives, (2) identify applicable Tier 0, 1, or 2 federal certification standards for a locomotive, and (3) determine a locomotive's emission levels relative to its applicable federal emission certification level.

In addition, AB 1222 directs CARB to establish an advisory group to make recommendations regarding the design and implementation of the pilot program. AB 1222 also requires that the SCAQMD and SMAQMD Board of Directors approve the district advisory group. This action is to approve the members serving on the advisory group. The SCAQMD Board of Directors is expected to approve the advisory members at their monthly meeting on April 17, 2006.

The technical consultants and community representatives appointed by the SCAQMD had previous experience working with the SCAQMD. The community representative appointed by SMAQMD was recommended by Tom Christofk for work previous done with the railroads.

## **Discussion**

Remote sensing devices (RSDs) have been traditionally used to measure pollutant levels from light and medium-duty vehicle exhaust while the vehicle is traveling. Unlike other equipment used to measure vehicle emissions, RSDs do not need to be physically connected to the vehicle. RSDs are an efficient tool in the smog check program, where they are used to monitor the vehicle fleet and identify "high-emitting" polluting vehicles.

The potential application of RSD technology to emission sources other than on-road motor vehicles has long been recognized. In particular, the use of RSD technology to measure diesel emissions from locomotives appears to be feasible. Accordingly, AB 1222 directs CARB to conduct a locomotive RSD pilot program, with the objective of determining whether RSDs can accurately measure NO<sub>x</sub>, CO, and PM emissions from locomotives and identify diesel-powered locomotives that do not comply with federal emission standards.

AB 1222 also requires CARB to design and implement the pilot program in consultation with an advisory group established by CARB. The advisory group must include an even number of members, not to exceed 14. The appointees must consist of recognized experts in the field of remote sensing and locomotive engine technology, representatives of citizen community groups and representatives of the SCAQMD and SMAQMD. The advisory group must also include representatives from Union Pacific Railroad and Burlington Northern Santa Fe Railway, if they choose to participate. In that case, the railroads are permitted to appoint one half of the membership and SCAQMD and SMAQMD appoint the remainder.

The two railroads have decided to participate and so far have appointed five members. SCAQMD and SMAQMD staff have, in turn, recommended seven members for appointment. In

order to proceed with the program, the Boards of the two air districts must approve the appointments as required under AB 1222.

**Fiscal Impact**

There will be minimal administrative costs associated with participation in the advisory group. The costs include of travel and per diem to attend meetings and demonstrations.

**Attachments**

None

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Respectfully submitted,

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Larry Greene  
Air Pollution Control Officer

Reviewed By:

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Kathrine Pittard  
District Counsel

Attachments