

12/3/2003 RRAC Meeting Summary

The Reactivity Research Advisory Committee (RRAC) met on December 3, 2003 to discuss several VOC reactivity-related topics. Over 20 participants attended the meeting, including ARB staff from Research, Planning and Technical Support, and Stationary Source Divisions. Prior to the meeting, a meeting agenda, several presentations, and other relevant information were posted at <http://www.arb.ca.gov/research/reactivity/reactivity.htm>. Richard Corey (ARB/RD) made introductory remarks and Eileen McCauley (ARB/RD) facilitated the meeting, which is briefly summarized below.

Dongmin Luo (ARB/RD) gave a brief summary of the proposed amendments to the Tables of Maximum Incremental Reactivity (MIR) Values, which was presented at a public hearing prior to this RRAC meeting on December 3, 2003. This proposal is intended to update the MIR values used in the aerosol coatings regulation. Dr. Bill Carter (UCR) reported the status on the ARB's architectural coatings reactivity and low NO_x mechanism evaluation projects. For the architectural coatings project, the first set of chamber experiments for selected petroleum distillates were conducted and data processing and modeling analysis are underway. Based on the modeling result, another set of experiments will be developed and conducted in the near future. At present, analysis and injection methods for Texanol® are being developed. The low NO_x mechanism project is virtually completed and a final report is expected in January 2004. Dr. Carter also summarized a new ARB project entitled "Updated Chemical Mechanism for Airshed Model Application", which was approved by the ARB's Research Screening Committee in November 2003. The objective of this project is to update the SAPRC99 mechanism with the current chamber data and other recent literature results.

In addition, Dr. Carter presented a new SCAQMD project entitled "Environmental Chamber Studies of VOC Species in Architectural Coatings and Mobile Source Emissions", which supplements the ARB's on-going architectural coatings project. The proposed candidates for the chamber experiments, provided by ARB, was discussed at the meeting and the committee agreed that two compounds, i.e., ethylene glycol and propylene glycol, should be tested for this project due to their importance. Additional compounds will be selected at a conference call in the near future after additional information is obtained. As part of this project, potential utility of the UCR/EPA chamber for "availability" study was discussed. Dr. David Morgott (Kodak) briefly described an on-going availability study being conducted by Environment Canada. The committee agreed that this project should be presented to interested parties including ARB and SCAQMD due to its relevance.

Recent activities at ARB and U.S. EPA were discussed at the meeting. Jim Nyarady (ARB/SSD) presented the recent architectural coatings survey and

the preliminary result of reactivity analysis based on the survey result. Stan Tong (U.S. EPA) and Dongmin Luo (ARB/RD) briefly updated the committee on the publication status of the California Aerosol coatings regulation and the Advance Notice of Proposed Rulemaking for VOCs, and the Reactivity Research Working Group, respectively.

The meeting adjourned at 4:30 pm.