



## **Minutes for the STMPR Advisory Group Meeting Wednesday, October 11, 2006**

### **1. Welcome and Introduction**

Mr. Cassmassi, Planning & Rules Manager, Planning, Rule Development and Area Sources, called the meeting to order at 1:30 p.m. and presented a brief overview of the agenda for the meeting. There were no comments on the September 13, 2006 meeting minutes.

### **2. Status of Emissions Inventory**

Dr. Zhang, Air Quality Specialist, gave an update on modeling emissions inventory. The emission inventory was updated to include weekend decreases of 150 tons NO<sub>x</sub> and 50 tons VOC for on-road mobile sources, and substantial weekend increase of VOC due to the use of recreational boats, lawn and garden equipment. From a typical weekday to weekend, NO<sub>x</sub> decreases about 200 tons and VOC increases about 100 tons. It was assumed that biogenic emissions would not change from 2002 to 2020.

### **3. Status on Carrying Capacity Development**

Dr. Kim, Air Quality Specialist, presented the updated annual average emissions for base year 2005, and predicted future emissions for 2014 and 2020. He gave a summary of EPA's new PM<sub>2.5</sub> guidance released by EPA in September 2006. He briefly described Speciated Modeled Attainment Test (SMAT) which was recommended by EPA as a tool to demonstrate attainment. SMAT contains procedures that combine current monitoring data with outputs from simulation models to estimate future concentrations of PM<sub>2.5</sub>. For the test, SMAT requires data for 8 components of PM<sub>2.5</sub> for each quarter at each sampling site in a 3-year period and the use of component-specific design values and relative response factors. Dr. Kim presented the controlled simulation results, annual average and 24-hour average for 2014 and 2020. In addition, he presented the 24-hour average PM<sub>2.5</sub> simulation results based on an alternative test approach allowed by EPA which focused only on the high end of the distribution in each quarter to demonstrate attainment.

### **4. PM<sub>2.5</sub> and Ozone Attainment Demonstration**

Mr. Cassmassi gave a detailed explanation on the development process to determine the carrying capacities and the attainment demonstration for the 2007 AQMP. He presented formula to demonstrate attainment based on design values and relative response factors, and EPA's "sandwich" adjustment to the direct ambient measurements of PM<sub>2.5</sub> compounds for SMAT test. He also pointed out several issues and uncertainties related to SMAT procedures. The estimated relative standardized contribution to PM<sub>2.5</sub> mass from precursors varies and that to meet the PM<sub>2.5</sub> standards in 2014, the District's focus was placed in directly emitted PM<sub>2.5</sub> and SO<sub>x</sub> reductions. He then graphically presented the annual and 24-hour predicted PM<sub>2.5</sub> for year 2015 to demonstrate that the basin would attend the PM<sub>2.5</sub> standards by implementing the proposed control measures.

For ozone attainment demonstration, the criteria to select episode days, the baseline and future predictions of 1-hour and 8-hour ozone implementing all proposed control measures using CAMx 4.2 at various locations were outlined. An isopleth developed for Crestline demonstrated that 50% reduction for NO<sub>x</sub> and VOC would be needed to achieve attainment, and the estimated 2020 carrying capacities for VOC and NO<sub>x</sub> were approximately 304 tpd and 238 tpd, respectively with long-term control measures. In addition, the predicted improving visual range (miles) at Rubidoux in 2015 and 2020 was presented to show the effectiveness of District's proposed control measures.

### **5. Closing Remarks/Scheduling Next Meeting/Adjourn**

There being no additional public comments, Mr. Cassmassi adjourned the meeting at approximately 4:00 p.m.

**Attendance**  
**October 11, 2006 STMPR Advisory Group Meeting**

**MEMBERS PRESENT**

Carol Bohnenkamp, U.S. EPA  
Shep Burton, Consultant  
John DaMassa, California Air Resources Board  
Rob Farber, Southern California Edison  
Rory MacArthur, Western States Petroleum Association  
Ralph Morris, ENVIRON  
Karen R. Polenske, MIT Dept of Urban Studies & Planning

**MEMBERS ABSENT**

Ed Avol, USC  
Bill Dennison, California Small Business Alliance  
Fereidun Feizollahi, California Air Resource Board  
Jane Hall, CSUF  
Deng Bang Lee, SCAG  
Steve Levy, Center for Continuing Study of the California Economy  
Fred Lurmann, Sonoma Technology, Inc.  
Reza Mahdavi, CARB  
Paul Ong, UCLA School of Public Policy & Social Research  
George Treyz, Regional Economic Models, Inc.  
Frank Wen, SCAG

**OTHERS PRESENT**

Jonathan Nadler, SCAG

**AQMD STAFF**

Mark Bassett, Air Quality Specialist  
Elaine Chang, Assistant Deputy Executive Officer  
Joe Cassmassi, Planning & Rules Manager  
Ed Eckerle, Program Supervisor  
Kevin Durkee, Air Quality Specialist  
Bong Kim, Air Quality Specialist  
Patricia Kwon, Air Quality Specialist  
Sang-Mi Lee, Air Quality Specialist  
Satoru Mitsutomi, Program Supervisor  
Minh Pham, Air Quality Specialist  
Laki Tisopulos, Assistant Deputy Executive Officer  
Xinqiu Zhang, Air Quality Specialist