

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
AIR QUALITY TECHNICAL ADVISORY COMMITTEE MEETING

Thursday, September 30, 2004
MAG Office
Phoenix, Arizona

MEMBERS PRESENT

Stephen Cleveland, City of Goodyear, Chairman
Avondale: Stephanie Leusner for Michael Powell
*Buckeye: Carroll Reynolds
Chandler: Jim Weiss
Gilbert: Brian Townsend for Tami Ryall
Glendale: Doug Kukino
Mesa: Scott Bouchie
Phoenix: Joe Gibbs for Gaye Knight
#Scottsdale: Larry Person
Surprise: Jim Nichols for Jerry Huston
Tempe: Oddvar Tveit
*Citizen Representative: Walter Bouchard
*American Lung Association of Arizona: Bill Pfeifer
*Salt River Project: Chris Janick
Southwest Gas Corporation: Brian O'Donnell
*Arizona Public Service Company: Jim Mikula
#Western States Petroleum Association: Gina Grey
Valley Metro: Randi Alcott
Arizona Motor Transport Association: Dave Berry
Maricopa County Farm Bureau: Jeannette Fish
Arizona Rock Products Association: Steve Trussell
for Rusty Bowers
*Greater Phoenix Chamber of Commerce: Michelle Rill

*Associated General Contractors: Amanda McGennis
*Homebuilders Association of Central Arizona:
Connie Wilhelm-Garcia
*American Institute of Architects - Central Arizona:
Stephen J. Andros
*Valley Forward: Peter Allard
*University of Arizona - Cooperative Extension:
Patrick Clay
Arizona Department of Transportation: Beverly
Chenausky for Mark Wheaton
Arizona Department of Environmental Quality:
Peter Hyde
Maricopa County Environmental Services
Department: Jo Crumbaker
Arizona Department of Weights and Measures:
Duane Yantorno
Federal Highway Administration: Ed Stillings
*Arizona State University: Judi Nelson
Salt River Pima-Maricopa Indian Community: Ondrea
Barber for B. Bobby Ramirez
*Citizen Representative: David Rueckert

*Members neither present nor represented by proxy.
#Participated via telephone conference call.

OTHERS PRESENT

Lindy Bauer, Maricopa Association of Governments
Dean Giles, Maricopa Association of Governments
Julie Hoffman, Maricopa Association of
Governments
Cathy Arthur, Maricopa Association of Governments
Ruey-in Chiou, Maricopa Association of
Governments
Scott Di Biase, Maricopa Association of Governments
Brenda Day, Maricopa Association of Governments
Paul Ward, Maricopa Association of Governments

#Wienke Tax, Environmental Protection Agency
Bill Buck, Arizona Auto Hobbyist Council
Jermaine Hannon, Federal Highway Administration
Tami Stowe, House of Representatives
#Susie Stevens, Stevens & Stevens, P.C.
Jeff Baxter, Stevens & Stevens, P.C.
Steve Trussell, Arizona Rock Products Association
Diane Arnst, Arizona Department of Environmental
Quality

1. Call to Order

A meeting of the MAG Air Quality Technical Advisory Committee was conducted on September 30, 2004. Stephen Cleveland, City of Goodyear, Chairman, called the meeting to order at approximately 1:40 p.m. Wienke Tax, Environmental Protection Agency, Susie Stevens, Stevens and Stevens, P.C., Larry Person, City of Scottsdale, and Gina Grey, Western States Petroleum Association, attended the meeting via telephone conference call. Members of the Committee participating via telephone conference call were faxed copies of the materials distributed at the meeting.

2. Call to the Audience

Mr. Cleveland stated that, according to the MAG public comment process, members of the audience who wish to speak are requested to fill out comment cards, which are available on the table adjacent to the doorway inside the meeting room. Citizens are asked not to exceed a three minute time period for their comments. Public comment is provided at the beginning of the meeting for nonagenda items and nonaction agenda items. Mr. Cleveland noted that no public comment cards had been received.

3. Approval of the June 3, 2004 Meeting Minutes

The Committee reviewed the minutes from the June 3, 2004 meeting. Doug Kukino, City of Glendale, moved and Jim Weiss, City of Chandler, seconded and the motion to approve the June 3, 2004 meeting minutes carried unanimously.

4. Evaluation of Proposed PM-10 Certified Street Sweeper Projects for FY 2005 CMAQ Funding

Dean Giles, Maricopa Association of Governments, presented the evaluation of proposed PM-10 Certified Street Sweeper Projects for FY 2005 Congestion Mitigation and Air Quality Improvement (CMAQ) Funding. The FY 2005 Unified Planning Work Program and FY 2004-2007 MAG Transportation Improvement Program contain \$1,920,000 in FY 2005 CMAQ funding for the purchase of PM-10 certified street sweepers, which would fund eleven of the twenty-four sweeper projects submitted. Mr. Giles added that a local match of 5.7 percent is required. A copy of the Evaluation of Proposed PM-10 Certified Street Sweeper Projects for FY 2005 CMAQ Funding was at each place.

Dave Berry, Arizona Motor Transport Association, inquired about the variation in total cost among the sweeper projects. Mr. Giles responded that there are approximately fifty-three models of PM-10 certified street sweepers for the agencies to choose from, and the variation in cost may be due to the type of sweeper selected for roadway conditions. He added that MAG notifies the agencies that only equipment options that make the sweeper PM-10 certified are reimbursed.

Beverly Chenausky, Arizona Department of Transportation, stated that ADOT is requesting narrow PM-10 certified street sweepers to sweep HOV lanes. She added that options such as purchase agreements and warranties can cause the total cost of the sweeper projects to vary. Jo Crumbaker, Maricopa County Environmental Services Department, stated that the total cost also varies between broom and vacuum PM-10 certified street sweepers.

Peter Hyde, Arizona Department of Environmental Quality (ADEQ), commented on the daily emission reductions of the sweeper projects. Mr. Giles responded that some of the sweeper projects evaluated would replace noncertified street sweepers, expand the number of lane miles swept, and increase the frequency of sweeping. This may result in a larger number of daily emissions reduced.

Diane Arnst, ADEQ, expressed concern regarding the process used to evaluate the sweeper projects. Lindy Bauer, Maricopa Association of Governments, stated that the Draft MAG Methodologies for Evaluating Congestion Mitigation and Air Quality Improvement Projects were made available for agency and modal committee review on December 16, 2003, and a workshop was held on January 5, 2004. She added that ADEQ staff did not attend the workshop or provide comment on the Draft Methodologies.

Ms. Arnst stated that the evaluation of sweeper projects should be made available one week before the Committee is asked to make a recommendation. Ms. Bauer stated that MAG staff met with Ms. Arnst and Nancy Wrona, ADEQ, to discuss the CMAQ evaluation process on August 20, 2004. She indicated that this region is a little different from Shelby County in Tennessee in that MAG develops the methodologies and performs the modeling in-house, based on input provided by the MAG member agencies. Ms. Bauer added that the CMAQ evaluation process is guided by the Transportation Improvement Program and the Regional Transportation Plan. This time, MAG staff was pleased to be able to complete the evaluation of the sweeper projects and three years worth of CMAQ projects by the meeting. It was a massive work effort in a short time frame.

Brian O'Donnell, Southwest Gas Corporation, suggested that the sweeper project evaluations should focus on where violations of the PM-10 standard are occurring. Mr. Giles stated that one of the City of Chandler sweeper projects evaluated will sweep adjacent to the Chandler monitor, which has reported exceedances. Cathy Arthur, Maricopa Association of Governments, stated that the City of Phoenix sweeper projects specifically address monitors that have exceeded the PM-10 standard in the Salt River Study Area.

Ms. Arthur provided a followup response to an earlier comment made by Mr. Hyde regarding the daily emission reductions. Ms. Arthur stated that traffic data can also cause variation in emission reductions. Mr. Hyde requested that additional information on the sweeper projects be provided to the Committee in the future. He also suggested taking into account ambient data. Ed Stillings, Federal Highway Administration, asked if the daily emission reductions represent the difference between the new sweeper and the one being replaced. Mr. Giles responded that was correct.

Mr. Cleveland asked which sweeper projects would be funded with the \$1.92 million in federal funds available. Ms. Bauer responded that Page 1 of the table provided shows the sweeper projects that would be funded, in order of cost-effectiveness. Mr. Berry commented on using the cost-effectiveness of the last sweeper project to be funded on Page 1 as a benchmark for next year.

Jeannette Fish, Maricopa County Farm Bureau, commented that using the monitors that have recently exceeded the PM-10 standard as a focus in evaluating the projects may change the order of the prioritized list of sweeper projects. Mr. Weiss stated that two of the Chandler sweeper projects evaluated would replace sweepers that are no longer sufficient.

Mr. Hyde indicated that the evaluation of street sweeper projects should be linked to PM-10 concentrations. Ms. Bauer stated that Mr. Hyde made an excellent point for future consideration. The U.S. EPA states that the measures should be implemented region wide, throughout the whole nonattainment area; however, it is also important to look at ambient concentrations at monitors where exceedances occur. Joe Gibbs, City of Phoenix, stated that more silt loading measurements would be helpful since the averages being used are not adequate.

Ms. Crumbaker stated that the September 18, 2004 exceedance of the PM-10 standard occurred at the Buckeye site, although the data is still being analyzed. Mr. Kukino requested that more information be provided on how replacement sweeper project emission reductions are calculated. Mr. Hyde moved to recommend the prioritized list of Proposed PM-10 Certified Street Sweeper Projects for FY 2005 CMAQ Funding as presented on Page 1 of the table. Randi Alcott, Regional Public Transportation Authority, seconded the motion. Mr. Weiss moved to amend the motion to include retaining Page 2 of the prioritized list for any additional FY 2005 CMAQ funding that may become available. The amended motion was seconded by Brian Townsend, Town of Gilbert.

Mr. Cleveland asked for clarification on the original motion. Mr. Hyde stated that the motion was to recommend funding Page 1 of the prioritized list of Proposed PM-10 Certified Street Sweepers right away, and if additional funding becomes available, fund the projects listed on Page 2 of the table in the order presented. He added that he does not want to see the methodology changed at this time, but possibly in the future. Mr. Cleveland asked Ms. Alcott if she concurred with the restated motion. Ms. Alcott responded yes. Mr. Cleveland inquired about the amended motion. Mr. Weiss withdrew his amended motion.

Mr. Cleveland asked for a vote on the original motion to recommend the prioritized list of Proposed PM-10 Certified Street Sweeper Projects for FY 2005 CMAQ Funding, and to retain the prioritized list for any additional FY 2005 CMAQ funding that may become available due to year end closeout, including any redistributed obligation authority, or additional funding received by this region from the Revenue Aligned Budget Authority provisions. The motion carried with Mr. Berry voting no.

Mr. Cleveland asked for a motion to form a stakeholder group to further discuss the methodology used in evaluating PM-10 certified street sweeper projects, and bring a recommendation back to the Air Quality Technical Advisory Committee. Mr. Kukino moved, and Mr. Gibbs seconded the motion. Wienke Tax, Environmental Protection Agency, asked if the stakeholder group would evaluate the methodology for all CMAQ projects. Mr. Cleveland responded that only the PM-10 certified street sweeper methodology will be evaluated. The motion carried unanimously.

5. Evaluation of Proposed CMAQ Projects for Federal Fiscal Years 2008, 2009, and 2010

Mr. Giles presented the evaluation of proposed Congestion Mitigation and Air Quality Improvement projects submitted for Federal Fiscal Years 2008, 2009, and 2010. The results of the project evaluation were provided to the Committee in order of cost-effectiveness based on total project cost. At the request of the Committee, the project evaluation was also provided using nonweighted emission reductions by pollutant. In addition, a list of the Air Quality Projects was provided. A copy of the Arizona FY 2003 CMAQ Annual Report was also at each place.

Mr. Berry asked for clarification on the weighting of emission reductions. Ms. Arthur stated that emission reductions are calculated only for months of the year in which violations typically occur for each pollutant. In addition, the emissions are weighted to make the light duty vehicle emission factors in 2010 approximately equal. Mr. Cleveland inquired about the Air Quality Projects. Ms. Bauer responded that the Air Quality Projects are directly related to the air quality plans and that the Committee typically ranks these projects to be forwarded to the MAG Transportation Review Committee.

Mr. Berry commented on future funding for PM-10 certified street sweepers and expressed concern that less effective air quality projects may be funded. Mr. Giles responded that the Regional Transportation Plan provides for eight sweepers to be funded each year in 2008, 2009, and 2010. Ms. Arthur stated that the Revised MAG 1999 Serious Area Particulate Plan calls for half of the fleet to be PM-10 certified by 2006. Ms. Arthur further stated that the Transportation Improvement Program and Regional Transportation Plan provide funding for replacement sweepers through 2010 and additional sweepers for increasing the area and frequency of sweeping through 2026. However, the region may be able to replace the entire fleet by 2010 using additional CMAQ funding made available through the federal fiscal year end closeout process.

Paul Ward, Maricopa Association of Governments, stated that there is specific funding targeted for air quality projects. If the Committee would like to increase the funding of sweeper projects, funds available for other air quality projects would decrease. Mr. Berry commented on the rideshare projects being listed as Air Quality Projects. Ms. Bauer responded that the rideshare projects are included as measures in the air quality plans, implemented for numeric credit in earlier plans, and included as a part of the base modeling for maintenance. Mr. Ward mentioned that the Travel Demand Management projects are included as Air Quality Projects in the Regional Transportation Plan.

Mr. Cleveland asked for a motion to forward the Air Quality Projects, as presented, to the MAG Transportation Review Committee. Ms. Alcott moved, and Mr. Gibbs seconded the motion. Mr. Hyde commented on the projects that pave dirt shoulders. Mr. Cleveland asked if these projects would be considered by the MAG Regional Bicycle Task Force since bicycle lanes would be constructed. Mr. Giles responded that was correct. The motion carried unanimously.

Mr. Berry made a motion that any available funding be used in the most effective way possible at the time of evaluation. Mr. O'Donnell seconded the motion. Mr. Townsend asked for clarification. Ms. Alcott mentioned that projects are divided by mode and that she would oppose the motion since bike projects are not listed as Air Quality Projects. Mr. O'Donnell clarified that the motion would fund the most cost-effective projects. Mr. Gibbs commented that the projects are already presented in order of cost-effectiveness.

Mr. Berry withdrew his motion and moved to fund projects, to the extent CMAQ funds become available, that are the most cost-effective. Mr. Gibbs asked if the motion would fund projects based on cost-effectiveness, regardless of mode. Mr. Berry responded that the goal is to fund projects that will provide the most benefit. Mr. O'Donnell seconded, and the motion carried unanimously.

Mr. Cleveland asked for a motion to forward the CMAQ evaluation to the MAG Transportation Review Committee and modal committees for use in prioritizing projects. Mr. Berry moved, and

Ms. Alcott seconded the motion. Mr. Cleveland asked if the motion was also forwarding the nonweighted emission reductions list. Mr. Berry responded that the motion was to forward the CMAQ evaluation with weighted emission reductions. The motion carried unanimously.

6. Update on Maricopa County Fugitive Dust Control Rules

Ms. Bauer provided an update on PM-10 issues. She indicated that the region must be in compliance by 2006, with no violations in 2004, 2005, and 2006, to reach attainment. Ms. Bauer stated that both the public and private sectors have been working hard to reduce PM-10 concentrations. She mentioned that an Environmental Protection Agency representative came before the MAG Management Committee, Regional Council, and Regional Council Executive Committee to discuss the PM-10 issues facing the region.

Ms. Crumbaker gave a presentation on the efforts being made by the Maricopa County Environmental Services Department to address PM-10. She indicated that the Maricopa County Board of Supervisors approved nineteen new positions to enforce the Maricopa County Dust Control Rules. Ms. Crumbaker mentioned that monitored exceedances occurred on August 13, 2004 and September 18, 2004. She also explained the steps taken once a monitor measures an exceedance.

Mr. Kukino inquired about the total number of staff dedicated to enforcing the Maricopa County Dust Control Rules and the response time to complaints. Ms. Crumbaker responded that there will be twenty inspectors, four supervisors, one program manager, and support staff. She added that overall, the number of complaints received has increased due to West Nile Virus concerns; however, complaints are typically responded to within twenty-four hours. Mr. Cleveland inquired about the online database. Ms. Crumbaker indicated that the complaint database is available online so that people can check the status of complaints.

Mr. O'Donnell inquired about PM-2.5 concentrations. Ms. Crumbaker responded that ADEQ has requested that the region be designated attainment for PM-2.5. Generally the PM-2.5 standard is not exceeded during a dust storm; however, she would have to report back on the PM-2.5 data.

Scott Bouchie, City of Mesa, asked when the new staff will be out in the field and how an exceedance is measured. Ms. Crumbaker replied that the inspectors will start next month and will require two months of training. She added that 40 CFR 50, Appendix K shows how to calculate whether an exceedance has occurred. Natural/Exceptional Events involves determining whether the data should be "flagged" because of weather conditions or events which resulted in the exceedance.

Ms. Arnst stated that commitments and protocols required for the Salt River PM-10 Plan to address reentrained dust emissions from target paved roads are due by September 30, 2004. She added that approximately one-third have been received.

7. Redesignation to Attainment Status for Carbon Monoxide

Ms. Bauer reported that on September 21, 2004, the U.S. Environmental Protection Agency proposed to approve the request to redesignate the region to attainment status for carbon monoxide. There have been no violations of the carbon monoxide standard for the last seven years. Ms. Bauer stated that the U.S. EPA also proposed to approve the Carbon Monoxide Maintenance Plan for the

Maricopa County Nonattainment Area. She added that this represents a great accomplishment for the state and local governments.

8. Call for Future Agenda Items

Mr. Cleveland announced that the next meeting of the Committee is tentatively scheduled for November 4, 2004. He encouraged the Committee to provide MAG staff with suggestions for future agenda items.