

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

Thursday, October 27, 2011
MAG Office
Phoenix, Arizona

MEMBERS ATTENDING

Oddvar Tveit, Tempe, Chairman	Steve Trussell, Arizona Rock Products Association
Elizabeth Biggins-Ramer, Buckeye, Vice Chair	Amy Bratt, Greater Phoenix Chamber of Commerce
# Shirley Gunther for Kristen Sexton, Avondale	# Amanda McGennis, Associated General Contractors
# Jon Sherrill for Jim Weiss, Chandler	*Spencer Kamps, Homebuilders Association of Central Arizona
# Jamie McCullough, El Mirage	*Mannie Carpenter, Valley Forward
Kurt Sharp, Gilbert	*Erin Taylor, University of Arizona Cooperative Extension
Doug Kukino, Glendale	Beverly Chenausky, Arizona Department of Transportation
* Cato Esquivel, Goodyear	Diane Arnst, Arizona Department of Environmental Quality
# Greg Edwards for Scott Bouchie, Mesa	*Environmental Protection Agency
* William Mattingly, Peoria	Jo Crumbaker, Maricopa County Air Quality Department
Phil McNeely, Phoenix	# Duane Yantorno, Arizona Department of Weights and Measures
Tim Conner, Scottsdale	Ed Stillings, Federal Highway Administration
# Antonio DeLaCruz, Surprise	* Judi Nelson, Arizona State University
# Mark Hannah, Youngtown	* Christopher Horan, Salt River Pima-Maricopa Indian Community
Ramona Simpson, Queen Creek	
* American Lung Association of Arizona	
Grant Smedley, Salt River Project	
Brian O'Donnell, Southwest Gas Corporation	
Mark Hajduk, Arizona Public Service Company	
* Gina Grey, Western States Petroleum Association	
Dawn M. Coomer, Valley Metro/RPTA	
* Dave Berry, Arizona Motor Transport Association	
Jeannette Fish, Maricopa County Farm Bureau	

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

OTHERS PRESENT

Lindy Bauer, Maricopa Association of Governments	Joonwon Joo, Arizona Department of Transportation
Dean Giles, Maricopa Association of Governments	Dan Catlin, Fort McDowell Indian Community
Taejoo Shin, Maricopa Association of Governments	Scott DiBiase, Pinal County Air Quality
Matt Poppen, Maricopa Association of Governments	Matt Tsark, Strand Associates, Inc.
Julie Hoffman, Maricopa Association of Governments	Frank Schinzel, Maricopa County Air Quality
Kara Johnson, Maricopa Association of Governments	Joe Gibbs, City of Phoenix
Adam Xia, Maricopa Association of Governments	
Feng Liu, Maricopa Association of Governments	
Cathy Arthur, Maricopa Association of Governments	
Ranjith Dandanayakula, Maricopa Association of Governments	

1. Call to Order

A meeting of the Maricopa Association of Governments (MAG) Air Quality Technical Advisory Committee (AQTAC) was conducted on October 27, 2011. Oddvar Tveit, City of Tempe, Chair, called the meeting to order at approximately 1:35 p.m. Shirley Gunther, City of Avondale; Jon Sherrill, City of Chandler; Duane Yantorno, Arizona Department of Weights and Measures; Jamie McCullough, City of El Mirage; Greg Edwards, City of Mesa; Amanda McGennis, Associated General Contractors; Mark Hannah, Town of Youngtown; and Antonio DeLaCruz, City of Surprise, attended the meeting via telephone conference call.

2. Call to the Audience

Mr. Tveit 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 tables adjacent to the doorways 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. Tveit noted that no public comment cards had been received.

3. Approval of the September 22, 2011 Meeting Minutes

The Committee reviewed the minutes from the September 22, 2011 meeting. Diane Arnst, Arizona Department of Environmental Quality (ADEQ), requested that the minutes be revised to reflect the correct spelling of the word withdrawal in Agenda Item Number 10. Phil McNeely, City of Phoenix, moved and Tim Connor, City of Scottsdale, seconded and the motion to approve the September 22, 2011 meeting minutes, with the correction, carried unanimously.

4. Evaluation of Proposed PM-10 Certified Street Sweeper Projects for FY 2012 CMAQ Funding

Dean Giles, Maricopa Association of Governments, presented the evaluation of proposed PM-10 Certified Street Sweeper Projects for Federal Fiscal Year 2012 Congestion Mitigation and Air Quality Improvement (CMAQ) Funds. Mr. Giles stated that nine street sweeper projects were received by the deadline of September 15, 2011 requesting \$1.8 million in CMAQ funds. He noted that approximately \$1.3 million is available. The FY 2012 Unified Planning Work Program and Annual Budget and FY 2011-2015 MAG Transportation Improvement Program contains \$900,000 in FY 2012 CMAQ funding to encourage the purchase and utilization of PM-10 certified street sweepers. Mr. Giles noted that the remaining CMAQ funding has become available from sweeper projects that have been requested to be deleted and from savings on sweepers that have cost less than anticipated. He explained that a minimum local cash match of 5.7 percent is required for the projects.

Mr. Giles discussed the MAG Programming Principles two-tier review process for the street sweeper projects. On October 11, 2011, the MAG Street Committee conducted a first review of the applications. Mr. Giles mentioned that the nine projects were entered into a table ranked in descending order of cost-effectiveness. A copy of this table and comments by the Street Committee were provided with the agenda packet. Mr. Giles indicated that the estimated emission reduction for each street sweeper is provided in kilograms per day and the corresponding cost-effectiveness is based on CMAQ funds requested per annual metric ton reduced. He mentioned that following this meeting, additional opportunities to comment on the street sweeper projects would be provided at the MAG

Management Committee meeting on November 9, 2011 followed by the MAG Regional Council meeting on December 7, 2011.

Mr. Giles stated that the Committee is requested to recommend a prioritized list of proposed PM-10 Certified Street Sweeper Projects for fiscal year 2012 CMAQ funding. The Committee is also requested to retain the prioritized list for any additional fiscal year 2012 CMAQ funds that may become available due to closeout, including any redistributed obligation authority, or additional funding received by this region.

Brian O'Donnell, Southwest Gas Corporation, inquired how far away the proposed City of Chandler street sweeper would sweep from a PM-10 monitor. Mr. Giles replied that the proposed Chandler sweeper would be sweeping within four miles of a PM-10 monitor. Mr. O'Donnell asked if the exact distance that the street sweeper will be sweeping from a monitor is known. Mr. Giles responded that the sweeper would be sweeping within four miles of the West Chandler Monitor; however, he was unsure of the exact distance. Jeannette Fish, Maricopa County Farm Bureau, commented that the two Tempe street sweepers have identical information except for the daily emission reduction and cost-effectiveness. She inquired if the City of Tempe asked for two sweepers for the same area. Mr. Giles replied that the area being swept by both street sweepers encompasses the city wide area.

Ed Stillings, Federal Highway Administration, noted that he was surprised the Carefree sweeper was not higher on the list considering the Town does not have any street sweepers. Mr. Giles replied that the Town of Carefree does have a contract street sweeper that is being utilized. He commented that he would have to look at the specific data that was provided to see why it ranked lower.

Mr. O'Donnell inquired if it would make sense to move up the replacement sweeper for Chandler since the West Chandler monitor has had several exceedances of the 24-hour PM-10 standard in 2011. Jo Crumbaker, Maricopa County Air Quality Department, replied that the West Chandler monitor is about one and one-half miles west of the area to be swept by this sweeper. Mr. O'Donnell asked Ms. Crumbaker if this street sweeper would benefit the air in that area. Ms. Crumbaker indicated that Chandler would have to address that question. Mr. Giles responded that Chandler does currently have a street sweeper and the one in question is for replacement.

Ramona Simpson, Town of Queen Creek, expressed concern about the eight-year requirement for replacing street sweepers. She mentioned that there are cities and towns that have PM-10 sweepers less than eight years old that are not in service and cannot be repaired cost-effectively. Ms. Simpson noted that this results in a lower level of service. She stated that the Street Committee mentioned they will be reexamining this requirement. Ms. Simpson inquired if the Street Committee had a scheduled date in which to discuss this topic. Mr. Giles replied that he was unaware of a schedule. Mr. Tveit added that Mr. Giles could report back to the Committee to clarify the arguments regarding the eight-year requirement.

Mr. Tveit stated that the Committee is requested to recommend a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2012 CMAQ funding to the MAG Management Committee. Mr. O'Donnell moved and Ms. Simpson seconded the motion to forward the prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2012 CMAQ funding and to retain the prioritized list for any additional FY 2012 CMAQ funds that may become available due to closeout, including any redistributed obligation authority, or additional funding received by this region. The motion carried unanimously.

5. Update on the MAG Five Percent Plan for PM-10

Cathy Arthur, Maricopa Association of Governments, provided an update on the MAG Five Percent Plan for PM-10. Ms. Arthur indicated that MAG staff has produced draft PM-10 emission projections for the 2012 Five Percent Plan. She noted that the projections may change slightly before the plan is submitted.

Ms. Arthur explained that the plan to be submitted in 2012 is different from previous plans. One reason that this plan differs is that there were measures in the 2007 Five Percent Plan for PM-10, which has been withdrawn, that have been implemented for three years. Ms. Arthur stated that EPA has indicated that the region may take emissions reduction credit for the PM-10 measures that have already been in effect since 2007. She stated that the MAG 2012 Five Percent Plan can take credit for the following measures from the MAG 2007 Five Percent Plan which have been implemented: Increased rule effectiveness for Maricopa County Rules 310, 310.01 and 316; PM-10 certified street sweeping of freeways; PM-10 certified street sweepers purchased with CMAQ funds between January 1, 2007 and December 31, 2009; Road, alley, and shoulder paving and stabilization projects completed in 2008 through 2011; Speed limit reductions implemented in 2008 through 2011; and, Rubberized asphalt overlays completed by Arizona Department of Transportation. EPA has indicated that the plan may also take credit for one new measure, Dust Action General Permit and other provisions of House Bill 2208. Ms. Arthur discussed the draft PM-10 emissions for the MAG 2012 Five Percent Plan. She indicated that the draft emissions were based on the revised 2008 Periodic Emissions Inventory published by the Maricopa County Air Quality Department in June 2011.

Ms. Arthur stated that the growth factors are based on projections for the Phoenix metropolitan area released in August 2011 by Marshall Vest from the Economic and Business Research Center at the University of Arizona. She presented the increases and decreases projected for population and construction and manufacturing employment. Ms. Arthur noted that the numbers are different from previous presentations due to the release of the latest projections from Marshall Vest, which will be used in the plan. She added that the projections for both population and construction employment are more optimistic than what was used previously.

Ms. Arthur presented a pie chart of the draft 2012 PM-10 emissions with all plan measures which displays the distribution of PM-10 emissions by source in attainment year 2012. She stated that the chart is similar to the 2008 Periodic Emissions Inventory in terms of percentages, except for paved and unpaved roads. Ms. Arthur explained that the paved and unpaved road percentage is lower due to the credit for paving and stabilizing roads, shoulders, and alleys that has already occurred. Ms. Arthur presented a comparison of the revised 2008 Periodic Emissions Inventory and draft 2012 PM-10 emissions. She indicated that there is an approximate 8,000 ton reduction from 2008 to 2012.

Ms. Arthur stated that, with the exception of H.B. 2208, the measures that have already been implemented will be used to meet the requirements of the MAG 2012 Five Percent Plan. The first requirement of the plan is to show five percent reduction per year until attainment is reached. Ms. Arthur indicated that an effective way to demonstrate attainment is to use the rule effectiveness numbers which have dramatically increased since 2007. The rule effectiveness rates were calculated by the Maricopa County Air Quality Department using actual inspection data and a new methodology developed in consultation with the Environmental Protection Agency. Ms. Arthur stated that the increased rule effectiveness rates between 2007 and 2010 for Rule 310, Rule 310.01 and Rule 316 result in significant benefit. She noted that the rates are increased by one percent in 2012 for the wind

blown dust categories to account for the benefit of the Dust Action General Permit passed by the Arizona Legislature in 2011 as part of House Bill 2208. The credit will be used in the plan to model attainment. She noted that EPA has also recommended that this measure be quantified.

Ms. Arthur stated that the MAG 2012 Five Percent Plan will show the required five percent reductions per year for five years from 2007 to 2012. She presented that, using the baseline of 2007 PM-10 emissions, the goal is 2,969 tons per year with a total reduction of 14,845 tons for the five years. Considering the updated rule effectiveness, the actual tonnage reduced in 2012 is 16,270 tons. Ms. Arthur noted that the Clean Air Act five percent reduction requirement is met in 2012 with an excess of 1,425 tons.

Ms. Arthur discussed that there have been many paving/stabilization/speed limit reduction projects completed in 2008 through 2011 and credit can be taken. She noted that in September, MAG requested that the cities and towns and Maricopa County submit specifications on projects for paving/stabilization/speed limit reductions. MAG staff utilized the information submitted to quantify the mileage by project type for the years 2008 through 2011 as well as the total PM-10 emission reductions based on these projects for 2008-2012.

Ms. Arthur stated that to meet the Five Percent Plan contingency requirement, the plan must identify emission reductions above and beyond the credit used to demonstrate the annual five percent reduction and model attainment. After all the projects are quantified, the contingency requirement of 3,254 tons is met in 2012 with 3,263 tons. Ms. Arthur noted that this number is likely to increase once all of the project information is received from the jurisdictions.

Ms. Arthur stated that in conclusion the Draft 2012 Five Percent Plan for PM-10 will be able to meet the annual five percent reduction and contingency requirements, and will also be able to demonstrate modeling attainment. She indicated that MAG staff and Sierra Research, a MAG consultant, are currently working to demonstrate attainment via modeling. Ms. Arthur stated that two high wind days are being modeled: May 4, 2007 when just the West Forty-Third Avenue monitor exceeded; and, June 6, 2007 when seven monitors in the PM-10 nonattainment area experienced elevated PM-10 concentrations. In summation, Ms. Arthur discussed that the total PM-10 emission reductions in 2012 that are achieved through the measures that have been implemented, and the Dust Action General Permit, is 19,533 tons. This is a 32.9 percent reduction versus 2007. She added that these numbers may change before the draft plan is submitted; however, they should not deviate greatly. Ms. Arthur indicated that MAG staff is currently drafting chapters five and six of the plan.

Doug Kukino, City of Glendale, inquired about the schedule for the plan. Ms. Arthur replied that the tentative schedule has the draft slated for November, the public hearing in December, and submitting the plan to EPA in January 2012. Mr. Kukino asked what the responsibilities of the jurisdictions are and if the jurisdictions will need any further council approvals. Ms. Arthur responded that it does not appear that will be necessary.

Ms. Bauer noted that the dates that Ms. Arthur mentioned for the MAG 2012 Five Percent Plan for PM-10 may change. She indicated that ADEQ is working on the Agricultural Best Management Practice enforceability issues and they are also still working on the Dust Action General Permit. Ms. Bauer stated that MAG staff is currently drafting the parts of the plan in which the information is available. Once the final information is received, MAG staff will draft the remaining sections. She added that she is referring to the modeling part of the plan and the measures needed for modeling

attainment. Ms. Bauer indicated that the plan would need to be submitted in March 2012 for EPA to have the full six months for the completeness finding. She commented that MAG staff is working with ADEQ, Maricopa County, and a stakeholder group. Ms. Bauer mentioned that the draft plan may contain a table that indicates provisions and statutes that are applicable. She provided the example of the statute that requires ordinances from the cities and towns. Ms. Bauer stated that Ms. Arthur's presentation includes what can be modeled to meet the modeling requirements for this plan; Ms. Bauer noted that this plan uses existing measures that are already being implemented to reduce PM-10. This approach also avoids any further economic burden or regulations on the private and public sectors. She stated that this would not have been possible without fairly clean years at the monitors.

Ms. Bauer discussed the PM-10 exceedances from 2009-2011. She indicated that informally EPA has mentioned 2009 may be a clean year with most of the exceedances being exceptional events. In 2010, the region only had one exceedance. In 2011, the region was doing well with only one exceedance until all these exceptional events occurred. The State is currently documenting the exceptional events with assistance from MAG staff and Maricopa County. Ms. Bauer stated that the purpose of Ms. Arthur's presentation was to give the Committee an idea of how MAG is working to meet the requirements.

Ms. McGennis expressed concern about the employment projections used in modeling attainment for the 2012 Five Percent Plan due to the fluctuating nature of these numbers based on the economy. Ms. Arthur replied that yes the numbers for employment are volatile. She indicated that Marshall Vest is the only person in Arizona who is developing advanced econometric modeling. Ms. Arthur noted his credibility in this field and mentioned that his projections are based on the 2010 census. She stated that the MAG projections are currently based on outdated population data. Ms. Arthur also indicated that in a phone call with Marshall Vest, he commented that he was confident in the third quarter projections that MAG is using for the plan. She discussed that even if the numbers were to change up or down between 2011 and 2012, it would not make a big difference in the calculations. Ms. McGennis inquired why MAG did not use the previous projections when there was a downtick. Ms. Arthur replied that Marshall Vest provides updated projections every quarter and these are the latest he has released. She stated that the only uptick in construction employment projection is occurring between 2011 and 2012. Ms. Arthur noted that it was more difficult to show the five percent reductions after the third quarter projections were used since they are more optimistic. She indicated that these are the projections in which Marshall Vest is the most confident.

Ms. Bauer inquired if there is a way to qualify in the narrative the volatility of the numbers. Ms. Arthur responded that a qualification could be included in the plan. She also noted that the Marshall Vest numbers are based on Arizona-specific economic data. Ms. Arthur added that these projections are also being used by others. Ms. McGennis mentioned that she has projections that can be submitted to MAG as a comparison. She also commented that many companies are noting their Capital Improvement Budgets are decreasing every year. Ms. McGennis added that they are forecasting construction employment numbers to move downward. She indicated that they are happy to see there was a good employment quarter, but do not necessarily believe it is realistic.

Mark Hajduk, Arizona Public Service Company, inquired if the 164 ton reduction from the Dust Action General Permit was included in the excess 1,425 tons of emission reduction. Ms. Arthur responded yes. Mr. Hajduk commented that the Dust Action General Permit does not appear to have a big impact on the emission reductions. Ms. Arthur replied that the credit from that permit is needed

to demonstrate modeling attainment on high wind days. She indicated that on an annual basis the 164 ton reduction from the Dust Action General Permit does not make a large impact. However, on high wind days the Dust Action General Permit does make an impact.

6. Upcoming Ozone Designations

Ms. Bauer provided an update on the EPA withdrawal of the proposed eight-hour ozone standard. She stated that on September 22, 2011, EPA issued a memorandum indicating that the agency will proceed with the initial designations under the 2008 standard of 0.075 parts per million. Ms. Bauer noted that the region has one violating monitor of the ozone standard from the most recent ozone season. She stated that EPA is looking at the air quality monitoring data as well as the recommendation for the nonattainment area boundary that was submitted in 2009 by the Governor. The EPA expects to issue their recommendations on the designation and the boundary area in mid-December. Ms. Bauer stated that EPA has indicated that the region potentially may be designated as a marginal nonattainment area. EPA expects to finalize the designations and boundaries in mid-April 2012. Ms. Bauer commented that the region will have 120 days to comment once EPA issues their recommendations.

7. Court Order in the Lawsuit Filed Against the State for the Repeal of the Lottery Funds for Transit

Ms. Bauer provided an update on the court ruling in the lawsuit filed by the Arizona Center for Law in the Public Interest against the State for the repeal of the Local Transportation Assistance Fund (LTAF). On September 30, 2011, the court issued the final order to reinstate the funding. Ms. Bauer stated that toward the end of the September 30th order, it indicates that the order will be in effect until the Legislature reinstates the lottery funds for transit or the EPA publishes a notice in the Federal Register relieving the State of the funding commitment.

8. EPA Will Propose to Retain the Current PM-10 Standard

Ms. Bauer stated that on October 14, 2011, EPA indicated that the agency will propose retention of the current PM-10 standard.

9. Call for Future Agenda Items

Mr. Tveit requested suggestions for future agenda items. Ms. Arnst indicated that she would like to know the status on submitting the interim year modeling for redesignation with regard to the last ozone standard. With no further comments, the meeting was adjourned at 2:26 p.m.