MARICOPA ASSOCIATION of GOVERNMENTS

302 North 1st Avenue, Suite 300 ▲ Phoenix, Arizona 85003
Phone (602) 254-6300 ▲ FAX (602) 254-6490
E-mail: mag@mag.maricopa.gov ▲ Web site: www.mag.maricopa.gov

January 12, 2007

TO: Members of the MAG Air Quality Technical Advisory Committee

FROM: Stephen S. Cleveland, Goodyear City Manager, Chairman

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Friday, January 19, 2007 - 10:00 a.m.
MAG Office, Suite 200 - Saguaro Room
302 North 1st Avenue, Phoenix

Please park in the garage underneath the building. Bring your ticket to the meeting; parking will be validated. For those using transit, the Regional Public Transportation Authority will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Ann Wimmer at the MAG office. Requests should be made as early as possible to allow time to arrange the accommodation.

Members of the MAG Air Quality Technical Advisory Committee may attend in person, via videoconference or by telephone conference call. Those attending by videoconference must notify the MAG site three business days prior to the meeting. Those attending by telephone conference call are requested to call (602) 261-7510 between 9:25 a.m. and 10:00 a.m. on the date of the meeting. After the prompt, please enter the meeting ID number 27822 (on your telephone key pad) followed by the pound key. If you have a problem or require assistance, dial 0 after calling the number above.

Please be advised that under procedures approved by the MAG Regional Council, all MAG committees need to have a quorum to conduct the meeting. A quorum is a simple majority of the membership. If you are unable to attend the meeting, please make arrangements for a proxy from your entity to represent you.

TENTATIVE AGENDA

	COMMITTEE ACTION REQUESTED
1. Call to Order	
2. Call to the Audience An opportunity will be provided to members of the public to address the Air Quality Technical Advisory Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public will be requested not to exceed a three minute time period for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless the Air Quality Technical Advisory Committee requests an exception to this limit. Please note that those wishing to comment on action agenda items will be given an opportunity at the time the item is heard.	2. For information.
3. Approval of the January 11, 2007 Meeting Minutes	3. Review and approve the January 11, 2007 meeting minutes.
4. Preliminary Draft Comprehensive List of Measures to Reduce PM-10 Particulate Matter An important part of the preparation process for the Five Percent Plan for PM-10 is the consideration of air pollution control measures for possible implementation. To initiate this process, a Preliminary Draft Comprehensive List of Measures to Reduce PM-10 Particulate Matter was presented at the December 7, 2006 meeting. Additional comments and suggestions from the Committee are welcomed. Based upon the discussion at the Committee meeting, information will be collected on the measures and a report will be prepared. The information will be presented at the February 1 and 15, 2007 meetings. It is anticipated that on March 1, 2007, the Air Quality Technical Advisory Committee would then recommend	4. For information and discussion.

a Suggested List of Measures for the Five Percent Plan for PM-10 to the MAG Management Committee. Ultimately, following Regional Council approval, the Suggested List of Measures would be considered by the State and local governments for implementation.

Also, on January 8, 2007, Governor Napolitano signed an Air Quality Executive Order. Please refer to the enclosed material.

5. Air Quality Modeling Approach for the Five Percent Plan for PM-10

The Clean Air Act requires that the Five Percent Plan for PM-10 include a five percent reduction in emissions each year until the standard is attained, an attainment modeling demonstration, and contingency measures. A modeling protocol which describes the modeling effort for the Five Percent Plan will be discussed by MAG. A combination of AERMOD and rollback modeling will be used.

5. For information and discussion.

6. Air Quality Modeling Approach for the Eight-Hour Ozone Plan for the Maricopa Nonattainment Area

As a Basic nonattainment area, the region has a June 15, 2009 attainment date for the eight-hour ozone standard. A plan is due by June 15, 2007. A status report will be given on the monitoring data and the regional modeling effort for the plan. Please refer to the enclosed material.

6. For information and discussion.

7. Call for Future Agenda Items

The next meeting of the Committee has been tentatively scheduled for **Thursday, February 1, 2007 at 1:30 p.m.** The Chairman will invite the Committee members to suggest future agenda items.

7. For information and discussion.

Agenda Item #4

PRELIMINARY DRAFT COMPREHENSIVE LIST OF MEASURES TO REDUCE PM-10 PARTICULATE MATTER

January 12, 2007

January 12, 2007

PRELIMINARY DRAFT COMPREHENSIVE LIST OF MEASURES TO REDUCE PM-10 PARTICULATE MATTER

MEASURE	FIVE PERCENT REDUCTION IN EMISSIONS	MODELING ATTAINMENT DEMONSTRATION	ATTAINMENT AT THE MONITORS	POTENTIAL IMPLEMENTING ENTITY
Agriculture The Governor's Agricultural Best Management Practices Committee is in the process of evaluating potential measures to further reduce PM-10 emissions from agriculture for consideration for the Five Percent Plan for PM-10. This Committee was established by law in 1998 (Arizona Revised Statutes, Title 49-457) to develop an agricultural PM-10 general permit that would address the need for controls on agricultural operations. The potential agricultural measures will be presented to the MAG Air Quality Technical Advisory Committee for consideration.				
Fugitive Dust Control Rules				
1. Public education and outreach (e.g., Clark County) with assistance from local governments	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	L	County, local govts
2. Extensive Dust Control Training Program (e.g., Clark County)	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	M	County, private sector
3. Core Dust Control Training Program with video provided to local governments and private sector	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	M	County, local govts, private sector
4. Dust Managers required at construction sites of 50 acres and greater (e.g., Clark County)	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	M	County
5. Dedicated coordinator for unpaved roads and vacant lots (e.g., Clark County)	H (increasing Rule 310.01 effectiveness)	H (increasing Rule 310.01 effectiveness)	M	County
6. Strengthen trackout provisions - reduce length that requires rapid cleanup (e.g., 25 feet cumulative from all exits) - increase size of gravel pad - require grizzly and gravel pad	H (increasing Rule 310 & 310.01 effectiveness)	H (increasing Rule 310 & 310.01 effectiveness)	H	County

MEASURE	FIVE PERCENT REDUCTION IN EMISSIONS	MODELING ATTAINMENT DEMONSTRATION	ATTAINMENT AT THE MONITORS	POTENTIAL IMPLEMENTING ENTITY
7. Increase fines for dust control violations and continue to publish the list of violators	H (increasing Rule 310 & 310.01 compliance)	H (increasing Rule 310 & 310.01 compliance)	H	County
8. Establish a certification program for Dust Free Developments to serve as an industry standard	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	L	State, County
9. Better defined tarping requirements in Rule 310 to include enclosure of the bed	H (increasing Rule 310 effectiveness)	H (increasing Rule 310 effectiveness)	M	County
Industry				
10. Implement Rule 316	L	L	H	County, private sector
11. Require private companies to use PM-10 certified street sweepers or water filtration system sweepers on paved areas including parking lots (e.g., Clark County)	L	L	H	State
12. Shift hours of operation during stagnant conditions in November through February	N/A	H	H	State
13. Model cumulative impacts for new or modified existing sources	L	L	M	State
14. Conduct night time and weekend inspections	L	M	M	County
Nonroad Activities				
15. Discourage use of leaf blowers on high pollution advisory days	L	L	L	State, County
16. Encourage use of leaf vacuums to replace blowers	L	L	L	State, County
17. Reduce off-road vehicle use in areas with high off-road vehicle activity (e.g., Goodyear Ordinance)	M	L	L	State, County, local govts

MEASURE	FIVE PERCENT REDUCTION IN EMISSIONS	MODELING ATTAINMENT DEMONSTRATION	ATTAINMENT AT THE MONITORS	POTENTIAL IMPLEMENTING ENTITY
18. Create a fund to provide incentives to retrofit nonroad diesel engines and encourage early replacements with advanced technologies	L	L	L	State
19. Update the statutes to require ultra-low sulfur diesel fuels for nonroad equipment	L	L	L	State
Paved Roads				
20. Sweep streets with PM-10 certified street sweepers	M	M	M	County, local govts
21. Retrofit onroad diesel engines	L	L	L	State, County, local govts
22. Pave or overlay with rubberized asphalt	L	L	L	State, County, local govts
Unpaved Parking Lots				
23. Pave or stabilize existing unpaved parking lots (e.g., Phoenix Parking Code)	M	M	M	County, local govts
Unpaved Roads				
24. Pave or stabilize existing dirt roads and alleys	H	N/A	M	County, local govts
24. Limit speeds to 15 miles per hour on high traffic dirt roads	H	N/A	M	County, local govts
26. Prohibit new dirt roads including those associated with lot splits	N/A	N/A	M	State, County
Unpaved Shoulders				
27. Pave or stabilize unpaved shoulders	H	M	M	County, local govts

MEASURE	FIVE PERCENT REDUCTION IN EMISSIONS	MODELING ATTAINMENT DEMONSTRATION	ATTAINMENT AT THE MONITORS	POTENTIAL IMPLEMENTING ENTITY
Unpaved Access Points				
28. Pave or stabilize unpaved access to paved roads	M	M	M	County, local govts
Vacant Lots				
29. Strengthen and increase enforcement of Rule 310.01 for vacant lots	H (increasing Rule 310.01 effectiveness)	L	M	County
30. Restrict vehicular use and parking on vacant lots (e.g., Phoenix)	H (increasing Rule 310.01 effectiveness)	L	M	County, local govts
31. Enhanced enforcement of trespass ordinances and codes	H (increasing Rule 310.01 effectiveness)	L	M	County, local govts
32. Vacant lots stabilized by County if owners do not respond, liens put on property if necessary (e.g., Clark County)	H (increasing Rule 310.01 effectiveness)	H	M	State, County

Note: Low, medium, and high rankings are preliminary qualitative assessments and will be revised when the emissions inventory and modeling data are available.

Agenda Item #4

Executive Order 2007-03
Improving Air Quality

WHEREAS, between November 1, 2005, and March 31, 2006, the Arizona Department of Environmental Quality (ADEQ) issued twenty-five High Pollution Advisories for particulate matter, significantly more than in previous years; and

WHEREAS, ADEQ already has issued seven High Pollution Advisories for particulate matter since November 1, 2006; and

WHEREAS, Arizona remains in a condition of prolonged drought such that particulate matter is more easily generated and transported and accumulates in greater concentrations in the air; and

WHEREAS, particulate matter pollution is generated by construction, sand and gravel mining operations, landscaping and grounds maintenance activities, on- and off- road motor vehicle operation, vacant lots, unpaved shoulders, unpaved alleyways, unpaved roads, agriculture and other activities that create dust; and

WHEREAS, a portion of Maricopa County has not yet attained the federal National Ambient Air Quality Standard for particulate matter despite the December 31, 2006, deadline to do so; and

WHEREAS, Arizona will be required to submit a State Implementation Plan to the United States Environmental Protection Agency (EPA) by December 31, 2007 to achieve particulate matter emission reductions of at least 5% annually until the federal National Ambient Air Quality Standard is met; and

WHEREAS, a portion of Maricopa County and Apache Junction in Pinal County has not yet attained the federal National Ambient Air Quality Standard for eight-hour ozone; and

WHEREAS, Arizona is required to meet the eight-hour ozone standard by June 15, 2009; and

WHEREAS, Arizona must submit a State Implementation Plan to EPA by June 15, 2007, demonstrating how the eight-hour ozone standard will be met by the June 15, 2009, deadline; and

WHEREAS, attainment of the eight-hour ozone standard hinges on air quality in the three-year period 2006 through 2008; and

WHEREAS, the eight-hour ozone standard was exceeded on thirteen days between April 1, 2005 and September 30, 2005, and on eleven days between April 1, 2006 and September 30, 2006 in the non-attainment area; and

WHEREAS, ozone pollution is caused predominantly by emissions from motor vehicles, but is also contributed to by emissions from gasoline-powered equipment (including landscaping and off-road equipment) and emissions from gasoline storage and dispensing equipment; and

WHEREAS, while Pima County is in attainment for the federal National Ambient Air Quality Standards for particulate matter and ozone, Pima County has experienced increased levels of those pollutants; and

WHEREAS, Maricopa County, Pima County and Pinal County are experiencing significant growth that threatens to further impair air quality; and

WHEREAS, the Maricopa County area is one of only two areas in the United States required to reduce its particulate matter (PM_{10}) emissions by 5% every year until the federal PM_{10} standard is achieved; and

WHEREAS, elevated levels of particulate matter and ozone air pollution can cause respiratory problems and other adverse health effects for people, especially children, seniors and other sensitive populations;

NOW, THEREFORE, I, Janet Napolitano, by virtue of the powers vested in me as Governor by the Arizona Constitution and the laws of the State, do hereby order as follows:

1. By March 31, 2007, ADEQ shall develop an Air Quality Improvement Action Plan with recommendations to the Governor for strategies to reduce particulate matter and ozone pollution in Arizona and to meet the federal National Ambient Air Quality Standards for particulate matter and ozone.

2. In compliance with requirements to be developed by ADEQ, any State agency, board or commission that proposes to carry out or approve a future State-funded project relating to transportation in Maricopa County, Pima County or Pinal County that is anticipated to have a significant impact on ozone pollution shall prepare an Air Quality Impact Report containing at a minimum the information specified in A.R.S. §§ 49-453(A)(1-7) and subject to the exceptions outlined in A.R.S. §§ 49-453(C) & (D). The report shall be filed with the Director of ADEQ for ADEQ's review and approval at least 180 days before the agency, board or commission makes a final decision on the transportation project.

3. Any State agency, board or commission that proposes to carry out or approve a future State-funded project relating to transportation in Maricopa County, Pima County, or Pinal County that is anticipated to have a significant impact on particulate matter pollution shall, in compliance with requirements to be developed by ADEQ, go beyond statutory requirements to prepare an Air Quality Impact Report containing at a minimum the information specified in A.R.S. §§ 49-453(A)(1-7) and subject to the exceptions outlined in A.R.S. §§ 49-453(C) & (D). The report shall be filed with the Director of ADEQ for ADEQ's review and approval at least 180 days before the agency, board or commission makes a final decision on the transportation project.

4. In compliance with requirements to be developed by ADEQ in consultation with the Arizona Department of Administration (ADOA), all State agencies shall cease the use of leaf blowers, gasoline-powered lawn mowers and other pollution-

causing landscape maintenance equipment on State property and at State facilities in Maricopa County, Pima County and Pinal County by June 30, 2007.

5. In compliance with requirements to be developed by ADEQ in consultation with ADOA, all State agencies shall hereafter purchase and use only low-emission gas cans and shall over time replace all gas cans currently in use by State agencies that are not low-emission cans.

6. In compliance with requirements to be developed by ADEQ in consultation with the Arizona State Land Department and ADOA, and to the extent permitted by law, any State contract for the sale or lease of any State land, State property or State facility, building, structure or installation in Maricopa County, Pima County and Pinal County shall require the buyer, lessee or tenant to mitigate emissions of particulate matter or ozone-causing pollutants from any indirect source of air pollutants to be constructed or operated thereon.

7. In compliance with requirements to be developed by ADEQ in consultation with ADOA, any State agency that constructs, contracts for the construction of, or provides funding for the construction of, any facility, building, structure or installation in Maricopa County, Pima County or Pinal County that is an indirect source of particulate matter or ozone-causing pollutants shall mitigate emissions of those pollutants and/or require that such emissions be mitigated.

8. In consultation with ADEQ, ADOT further shall require that each jurisdiction that receives funds from ADOT for road construction, expansion, modification or repairs within Maricopa County shall certify annually to ADOT that, during the preceding twelve-month period, the jurisdiction has met its commitments under the existing State Implementation Plan to use PM_{10} efficient vacuum street sweepers at least weekly, to pave roads, alleys and shoulders (including quantifying the paving) and to install curbing.

9. In compliance with requirements to be developed by ADEQ, any State agency that engages in construction or renovation activities on State property or at a State facility, building, structure or installation in Maricopa County, Pima County and Pinal County shall suppress, and require its contractor(s) to suppress, emissions of dust from such construction or renovation activities.

10. As directed in Executive Order 2006-13, in consultation with ADEQ and to the maximum extent allowed by federal law, ADOT shall develop and implement a pilot program to allow designated hybrid motor vehicles to drive in high-occupancy vehicle lanes on roadways, consistent with the provisions of A.R.S. §§ 28-737 and 28-2416.

11. In compliance with requirements to be developed by ADEQ in consultation with ADOA, any State agency that contracts for the use of on-road or off-road heavy duty diesel equipment in Maricopa County, Pima County and Pinal County shall, subject to relevant state law and where practicable, construct it's Requests for Proposals in a manner that gives incentives to bidders that use: equipment retrofitted with diesel retrofit kits; newer clean

diesel technologies and fuels; or "green diesel," biodiesel fuel, or other fuels that are cleaner than petroleum diesel.

12. All Trip Reduction materials distributed to State employees shall include public education materials about particulate matter and ozone pollution and shall encourage employees to take steps to reduce emissions of these pollutants.

IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Arizona.

GOVERNOR

DONE at the Capitol in Phoenix on this 8th day of January in the Year Two Thousand and Seven and of the Independence of the United States of America the Two Hundred and Thirty-First.

ATTEST:

SECRETARY OF STATE

Agenda Item #4

April 11, 2006

TENTATIVE MAG PM-10 FIVE PERCENT PLAN SCHEDULE

	YEAR 2006												YEAR 2007												YEAR 2008		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
PM-10 FIVE PERCENT PLAN																											
Draft Protocol Document			▲																								
Finalize Protocol Document					▲																						
Prepare Land Use, Meteorological and Air Quality Inputs for Episode Periods							▲																				
Prepare 2005 Nonroad Emissions							▲																				
Prepare 2005 Onroad Mobile Emissions With MOBILE6.2							▲																				
Run Models Using 2002 Area & Point Source Emissions Projected to 2005 for Test Purposes								▲																			
Obtain 2005 Area and Point Source Emissions From MCAQD									▲																		
Evaluation of Potential Measures												▲															
AERMOD 2005 Base Case Modeling & Performance Evaluation												▲															
CMAQ 2005 Base Case Modeling & Performance Evaluation													▲														
Develop Emission Inventories for 2007 & 2009													▲														
AERMOD 2009 Base Case Simulation														▲													
CMAQ 2009 Base Case Simulation														▲													
Suggested List of Measures (Feb-Mar)															▲												
Commitments to Implement Measures																		▲									
Committed Measure Evaluation Process																				▲							
Complete Analysis and Write TSD																					▲						
Plan Document Available for Public Review																					▲						
Public Hearing																						▲					
AQTAC Recommendation																						▲					
Management Committee																							▲				
Regional Council Action																								▲			
Submit to ADEQ/EPA																								▲			
EPA Adequacy Finding for Conformity Budget																											▲

Agenda Item #6

April 11, 2006

TENTATIVE MAG EIGHT-HOUR OZONE PLAN SCHEDULE

	YEAR 2006												YEAR 2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
OZONE MODELING TASK LIST																								
Prepare Protocol Document	▲																							
Base Year (2001, 2002) Emissions Inventory Preparation		▲																						
MOBILE6 Modeling of 2001 and 2002 Onroad Mobile Emissions		▲																						
Land Use, Meteorological and Air Quality Input Preparation for Episode Periods		▲																						
Biogenic Emissions Inventory						▲																		
CAMx Modeling and Episode Performance Evaluation										▲														
Develop Emissions Inventory for 2008											▲													
CAMx simulations for 2008													▲											
Committed Control Measure Evaluation													▲											
Complete Analyses and Write TSD														▲										
Plan Document Available for Public Review															▲									
Public Hearing																▲								
AQTAC Recommendation																▲								
Management Committee																	▲							
Regional Council Action																	▲							
Submit to ADEQ/EPA																		▲						
EPA Adequacy Finding for Conformity Budgets																					▲			

Note: Assumes no additional measures are necessary for attainment.
In 2005, there were no monitors with violations.