

APPENDIX I

Candidate Best Available Control Measures

**Arizona Department of Environmental Quality
Air Quality Exceptional and Natural Events Policy
PM₁₀ Best Available Control Measures
June 5, 2001**

Note: This list was compiled to comply with Arizona's Air Quality Exceptional and Natural Events Policy (April 28, 1999). It is not intended to be exclusive, but provide a starting point for air pollution control agencies to determine appropriate BACM, to be done on a case-by-case basis for source categories.

Area Sources Control Measures		Reference
1	20% Opacity Limit for Fugitive Dust Sources	Maricopa County Rule 310, revised 02/16/00
2	Dust Control Plans for earthmoving operations \geq 0.10 acre. Operations may include grading, leveling, excavating, back filling, soil mulching, etc.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
3	Dust Control Measures for Open Storage Piles (any accumulation of bulk material with \geq 5% silt content with minimum height of 3 feet at any point and total surface area of 150 sq. feet or more).	Maricopa County Rules 310 and 310.01, revised 02/16/00.
4	Stabilize Unpaved Haul Roads, and Parking or Staging Areas.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
5	Paving, Vegetating, and Chemically Stabilizing Unpaved Access Points Onto Paved Roads (especially adjacent to construction sites).	Maricopa County Rules 310 and 310.01, revised 02/16/00.
6	Dust Control Measures for Unpaved Parking Lots with \geq 10 vehicle capacity.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
7	Dust Control Measures for Open Areas, Vacant Lots or Disturbed Surface Areas \geq .10 acre.	Maricopa County Rules 310 and 310.01, revised 02/16/00.

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Area Sources Control Measures		Reference
8	Control of Emissions Due to Material Transport (e.g., Truck Covers, Freeboard Requirements, Material Dampening, or Responsibility for Clean Up of Spills).	Maricopa County Rules 310 and 310.01, revised 02/16/00.
9	Operate water application system while conducting earthmoving operations on disturbed surface areas ≥ 1 acre.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
10	Dust Control Measures for Unpaved Roads and Alleys ≥ 150 average vehicles/day (e.g., Paving, Chemically Stabilizing, or Watering).	Maricopa County Rules 310 and 310.01, revised 02/16/00.
11	Traffic Reduction/Speed Control Plans for Unpaved Roads.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
12	Restrict access to open areas and open lots by installing signs or physical barriers	Maricopa County Rules 310 and 310.01, revised 02/16/00.
13	Use of PM10 Less Polluting Street Sweepers	South Coast Air Quality District Rule 1186.1
14	Curbing, Paving, or Stabilizing Shoulders on Paved Roads by Public Entities Within Own Jurisdictions (Includes Painting Strip on Outside of Travel Lane).	MAG Feb. 2000 PM10 SIP (city and ADOT commitments)
15	Restrictions on Use of Blowers for Landscaping Maintenance.	MAG Feb. 2000 PM10 SIP (city commitments)
16	Routine Sweeping or Cleaning of Paved Roads.	MAG Feb. 2000 PM10 SIP (county and local ordinances)
17	Prohibit the Installation or Construction of a Fireplace or Wood Stove Unless it is a Fireplace with a Permanently Installed Gas or Electric Log Insert or Fireplace or Wood Stove that Meets EPA Standards.	MAG Feb. 2000 PM10 SIP (city and county commitments)
Area Sources Control Measures		Reference

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18	Vegetative and Chemical Stabilization and Construction of Windbreaks on Public Property next to Open Land/Lots.	SB 1427 (State Land Dept. Dust Abatement and Management Plan)
19	Agricultural Best Management Practices.	ADEQ Rule - AAC R18-2-610 and 611.
20	Traffic Rerouting or Rapid Clean-Up of Temporary Sources of Dust on Paved Roads (e.g., Due to Spills or Runoff).	EPA RACM Guidance (1991)
21	Replace Crack Seal Blower Equipment with Vacuum Systems as Equipment is Retired	ARS §§ 9-500.04 and 49-474.01
22	Episode Curtailment Program for Residential Wood Combustion (high pollution advisory days).	Maricopa County Woodburning Restriction Ordinance
Mobile Sources		Reference
1	Advertised Number to Report Gross Emitting Vehicles.	MAG Feb. 2000 PM10 SIP(Maricopa County Smoking Vehicle Hotline Program)
2	Replace/Retrofit Emission Control Devices on Diesel Powered Vehicles (ex: Particulate Filters).	Houston 2000 Ozone SIP
3	Voluntary Vehicle Repair and Retrofit Program Diesel Powered Vehicles.	SB 1427 (1998) and ARS § 49-474.03
4	Snap Acceleration Test for Heavy-Duty Diesel Vehicles.	ARS § 49-542(F)(2)(d)
5	Require Pre-1988 Heavy-Duty Diesel commercial Vehicles to meet 1988 Federal Emission Standards.	ARS § 49-542(F)(7)
Mobile Sources		Reference
6	Limit Sulphur Content of Diesel Fuel Oil to 500 ppm (on and off road).	ARS § 41-2083(J)
Industrial Sources		Reference
1	20% Opacity Limit	Maricopa County Rule 300, revised 02/07/01.

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2	Paving, Vegetating, and Chemically Stabilizing Unpaved Industrial Site Access Points Onto Paved Road.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
3	Dust control plans for industrial sites.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
4	For utilities located inside the PM10 nonattainment area, restrict vehicular speeds to 15 mph and trips to no more than 20/day on easement, rights of way and access roads.	Maricopa County Rules 310 and 310.01, revised 02/16/00.
5	PM ₁₀ Best Available Control Technology (BACT) Determinations for Stationary Sources.	Subsection F of Addendum to General Preamble for Implementing Title I (59 FR 41998, August 16, 1994)
6	Fugitive Dust Control Measures for Copper Mining Facilities for crushing, screening, loading/unloading, handling operations and storage piles, tailing, and haulroads/roadways. Measures may include application of water, wetting agents or dust suppressants, minimizing material drop, wind break and fences, enclosures, skirting, maintaining inherent moisture content, limit vehicle access and speed, covering or capping.	Draft ADEQ Title V permits

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