REGULATION III – CONTROL OF AIR CONTAMINANTS

RULE 316
NONMETALLIC MINERAL PROCESSING

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MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS
REGULATION III – CONTROL OF AIR CONTAMINANTS

RULE 316
NONMETALLIC MINERAL PROCESSING

SECTION 100 – GENERAL

101 PURPOSE: To limit the emission of particulate matter into the ambient air from any nonmetallic mineral processing plant. ~~and/or rock product processing plant.~~

102 APPLICABILITY: The provisions of this rule ~~shall~~ apply to any commercial and/or industrial nonmetallic mineral processing plant ~~and/or rock product processing plant~~. Product transfer operations are regulated by Rule 301 of these rules. Compliance with the provisions of this rule ~~shall~~ does not relieve any person subject to the requirements of this rule from complying with other applicable rules and regulations including, but not limited to, any other federally enforceable New Source Performance Standards. ~~In such case, the more stringent standard shall apply.~~ Whenever more than one rule, regulation, or emission limit applies to nonmetallic mineral processing plants subject to this rule, the more stringent standard applies.

SECTION 200 – DEFINITIONS: ~~See Rule 100 (General Provisions and Definitions) of these rules for definitions of terms that are used but not specifically defined in this rule.~~ For the purpose of this rule, the following definitions ~~shall~~ apply, in addition to those definitions found in Rule 100: General Provisions And Definitions of these rules. In the event of any inconsistency between any of the Maricopa County air pollution control rules, the definitions in this rule take precedence.

201 AFFECTED OPERATION – An operation that processes nonmetallic minerals or that is related to such processing and process sources including, but not limited to, excavating, crushers, grinding mills, screening equipment, conveying systems, elevators, transfer points~~, bagging operations~~, storage bins, enclosed truck and railcar loading stations, and truck dumping.

202 AGGREGATE TRUCK – Any truck with an open top used to transport the products of nonmetallic mineral processing plants. ~~and/or rock product processing plants.~~

203 **APPROVED EMISSION CONTROL SYSTEM (ECS) –** A system for reducing particulate emissions, consisting of collection and/or control devices which are approved in writing by the Control Officer and are designed and operated in accordance with good engineering practice.

204 **AREA ACCESSIBLE TO THE PUBLIC –** Any ~~retail~~ paved parking lot or ~~public~~ paved roadway that ~~is open to~~ can be entered or used for public travel primarily for ~~the~~ purposes unrelated to the dust-generating operation.

205 **ASPHALTIC CONCRETE PLANT/ASPHALT PLANT –** Any facility used to manufacture asphaltic concrete by mixing graded aggregate and asphaltic cements.

~~206~~ ~~BAGGING OPERATION – The mechanical process by which bags are filled with nonmetallic minerals.~~

~~207~~ **206** **BATCH TRUCK –** Any truck that loads and transports products produced by batch.

~~208~~ **207** **BELT CONVEYOR –** A conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

~~209~~ **208** **BERMS AND GUARD RAILS –** A pile or mound of material along an elevated roadway capable of moderating or limiting the force of a vehicle in order to impede the vehicle's passage over the bank of the roadway.

209 **BLASTING OPERATIONS –** Operations that break or displace soil and/or rock by means of explosives.

210 **BULK MATERIAL –** Any material including, but not limited to: earth, rock, silt, sediment, sand, gravel, soil, fill, aggregate less than two inches in length or diameter (i.e., aggregate base course (ABC)), dirt, mud, demolition debris, cotton, trash, cinders, pumice, saw dust, feeds, grains, fertilizers, fluff (from shredders), and dry concrete, that is capable of producing fugitive dust.

211 **COHESIVE HARD SURFACE –** ~~Any material including, but not limited to: pavement, recycled asphalt mixed with a binder, or a dust suppressant other than water applied and maintained as a roadway surface.~~ A surface that uses concrete, asphalt, or other materials that produce or promote a cohesive and stable surface that is effective in preventing emissions, such that a vehicle driving over the surface will produce no visible emissions beyond the vehicle’s tires.

212 **CONCRETE PLANT –** Any facility used to manufacture concrete by mixing water, aggregate, and cement.

213 **CONVEYING SYSTEM –** A device for transporting materials from one piece of equipment or location to another location within a facility. Conveying systems include, but are not limited to, feeders, belt conveyers, bucket elevators and pressure control systems.

214 **CRUSHER –** A machine used to crush any nonmetallic minerals including, but not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

215 **DELIVERY TRUCK** - Any truck (including any non-motorized attachment to a truck, such as a trailer or other conveyance connected to or propelled by the actual motorized portion of the truck) that holds, stores, or delivers product to or from a nonmetallic mineral processing plant.

~~215~~ **216** **DISTURBED SURFACE AREA –** A portion of the earth's surface ~~(~~or material placed ~~thereupon) which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed native condition, thereby increasing the potential for the emission of fugitive dust~~ on the earth's surface that has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed native condition where there exists an increase in the potential for the emission of fugitive dust over the natural state or as the result of the movement, destabilization, or modification.

~~216~~ **217** **DRY MIX CONCRETE PLANT –** Any facility used to manufacture a mixture of aggregate and cements without the addition of water.

~~217~~ **218** **DUST-GENERATING OPERATION –** Any activity capable of generating fugitive dust including, but not limited to, the following activities: ~~land clearing, earthmoving, weed abatement by discing or blading, excavating, construction, demolition, bulk material handling, storage and/or transporting operations, vehicle use and movement, the operation of any outdoor equipment, or unpaved parking lots. For the purpose of this rule, landscape maintenance and playing on or maintaining a field used for non-motorized sports shall not be considered a dust-generating operation. However, landscape maintenance shall not include grading, trenching, or any other mechanized surface disturbing activities performed to establish initial landscapes or to redesign existing landscape.~~

218.1 Land clearing, maintenance, and land cleanup using mechanized equipment.
218.2 Earthmoving.
218.3 Weed abatement by discing or blading.
218.4 Excavating.
218.5 Construction.
218.6 Demolition.

218.7 Bulk material handling (e.g., bulk material hauling and/or transporting, bulk material stacking, loading, and unloading operations).
218.8 Storage and/or transporting operations (e.g., open storage piles).
218.9 Operation of any outdoor equipment.
218.10 Operation of motorized machinery.
218.11 Establishing and/or using staging areas, parking areas, material storage areas, or access routes to and from a site.
218.12 Establishing and/or using unpaved haul/access roads to, from, and within a site.
218.13 Disturbed surface areas associated with a site.
218.14 Installing initial landscapes using mechanized equipment.

~~218~~ **219** **DUST SUPPRESSANT –** Water, hygroscopic material, solution of water and chemical surfactant, foam, non-toxic chemical stabilizer, or any other dust palliative, which is not prohibited for ground surface application by the EPA or the Arizona Department of Environmental Quality (ADEQ), or any applicable law, rule, or regulation, as a treatment material for reducing fugitive dust emissions.

~~219~~ **220** **ENCLOSED TRUCK OR RAILCAR LOADING STATION –** That portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

~~220~~ **221** **END OF WORKDAY –** The end of a working period that may include one or more work shifts. If working 24 hours a day, the end of a working period ~~shall be~~ is considered no later than 8 pm.

~~221~~ **222** **FABRIC FILTER BAGHOUSE –** ~~Tube-shaped filter bags - long small-diameter fabric tubes referred to as "bags" arranged in parallel flow paths and designed to separate particles and flue gas.~~ A device in which particulates are removed from the stream of exhaust gases using permeable fabric bags.

~~222~~ **223** **FREEBOARD –** The vertical distance between the top edge of a cargo container area and the highest point at which the bulk material contacts the sides, front, and back of a cargo container area.

~~223~~ **224** **FUGITIVE DUST CONTROL MEASURE –** A technique, practice, or procedure used to prevent or minimize the generation, emission, entrainment, suspension, and/or airborne transport of fugitive dust.

~~224~~ **225** **FUGITIVE DUST CONTROL TECHNICIAN –** A person with the authority to expeditiously employ sufficient fugitive dust control measures to ensure compliance with Rule 316 of these rules at an active operation.

~~225~~ **226** **FUGITIVE DUST EMISSION –** Particulate matter not collected by a capture system that is entrained in the ambient air and is caused ~~from~~ by human and/or natural activities.

~~226~~ **227** **GRINDING MILL –** A machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

~~227~~ **228** **HAUL/ACCESS ROAD –** Any on-site unpaved road that is used by haul trucks to carry materials from the quarry or pit to different locations within the facility. For the purpose of this ~~definition~~ rule, haul/access roads are not in permanent areas of a facility.

~~228~~ **229** **HAUL TRUCK –** Any fully or partially open-bodied self-propelled vehicle including any non-motorized attachments, such as but not limited to: trailers or other conveyances that are connected to or propelled by the actual motorized portion of the vehicle used for transporting bulk materials.

~~229~~ **230** **INFREQUENT OPERATIONS –** Operations that have state mine identification, approved reclamation plans and bonding as required by State Mining and Reclamation Act of 1975, and only operate on an average of 52 days per year over the past three years from June 8, 2005.

~~230 MATERIAL DELIVERY TRUCK – Any truck that loads and transports product to customers.~~

231 **MIXER TRUCK –** Any truck that mixes cement and other ingredients in a drum to produce concrete.

232 **MOTOR VEHICLE –** A self-propelled vehicle for use on the public roads and highways of the State of Arizona and required to be registered under the Arizona State Uniform Motor Vehicle Act, including any non-motorized attachments, such as but not limited to, trailers or other conveyances which are connected to or propelled by the actual motorized portion of the vehicle.

233 **NEW FACILITY –** A facility subject to this rule that has not been operated by such facility prior to June 8, 2005.

234 **NONMETALLIC MINERAL –** Any of the following minerals or any mixture of which the majority is any of the following minerals:

234.1 Crushed and broken stone, including limestone, dolomite, granite, rhyolite, traprock, sandstone, quartz, quartzite, marl, marble, slate, shale, oil shale, and shell.
234.2 Sand and gravel.
234.3 Clay including kaolin, fireclay, bentonite, fuller's earth, ball clay, and common clay.

234.4 Rock salt.
234.5 Gypsum.
234.6 Sodium compounds including sodium carbonate, sodium chloride, and sodium sulfate.
234.7 Pumice.
234.8 Gilsonite.
234.9 Talc and pyrophyllite.
234.10 Boron including borax, kernite, and colemanite.
234.11 Barite.
234.12 Fluorspar.
234.13 Feldspar.
234.14 Diatomite.
234.15 Perlite.
234.16 Vermiculite.
234.17 Mica.
234.18 Kyanite including andalusite, sillimanite, topaz, and dumortierite.
234.19 Coal.

235 NONMETALLIC MINERAL PROCESSING PLANT – Any facility ~~utilizing~~ that utilizes any combination of equipment, ~~or~~ machinery, processes, or operations ~~that is used~~ to mine, excavate, separate, combine, crush, store, weigh, load, or grind any nonmetallic mineral, or products made with nonmetallic minerals. ~~including, but not limited to: lime plants, coal fired power plants, steel mills, asphalt plants, concrete plants, Portland cement plants, raw material storage and distribution, and sand and gravel plants. Rock Product Processing Plants are included in this definition.~~ Concrete manufacturing plants and concrete batch plants are considered nonmetallic mineral processing plants for the purpose of this rule.

236 OPEN STORAGE PILE – Any accumulation of bulk material with a 5% or greater silt content that has a total surface area of 150 square feet or more and that at any one point attains a height of three feet. Silt content ~~shall be~~ is assumed to be 5% or greater unless a person can show, by testing in accordance with ASTM Method C136-06 or other equivalent method approved in writing by the Control Officer and the Administrator, that the silt content is less than 5%. For the purpose of this rule, the definition of open storage pile does not include berms and guard rails that are installed to comply with 30 Code of Federal Regulations (CFR) 56.93000.

237 OVERBURDEN REMOVAL OPERATION – An operation that removes and/or strips soil, rock, or other materials that lie above a natural nonmetallic mineral deposit and/or in-between a natural nonmetallic mineral deposit.

238 PARTICULATE MATTER EMISSIONS – Any and all finely divided solid or liquid materials other than uncombined water released to the ambient air as measured by the applicable state and federal test methods.

239 **PAVE –** To apply ~~and maintain~~ asphalt, concrete, or other similar material to a roadway surface ~~(i.e.,~~ including, but not limited to, asphaltic concrete, concrete pavement, chip seal, rubberized asphalt, or recycled asphalt ~~mixed~~ with a ~~binder~~ minimum asphalt content of 4.0%~~)~~.

240 **PERMANENT AREAS OF A FACILITY –** Areas that remain in-place for 180 days or more in 12 consecutive months. Permanent areas of a facility include the following areas: entrances, exits, parking areas, office areas, warehouse areas, maintenance areas (not including maintenance areas that are in the quarry or pit), concrete plant areas, asphaltic plant areas, and roads leading to and from such areas.

241 **PORTLAND CEMENT PLANT –** Any facility that manufactures Portland Cement using either a wet or dry process.

242 **PRESSURE CONTROL SYSTEM –** System in which loads are moved in the proper sequence, at the correct time, and at the desired speed through the use of valves that control the direction of air flow, regulate actuator speed, and respond to changes in air pressure.

243 **PROCESS –** One or more operations including those using equipment and technology in the production of goods or services or the control of by-products or waste.

244 **PROCESS SOURCE –** The last operation of a process or a distinctly separate process which produces an air contaminant and which is not a pollution abatement operation.

245 **PRODUCTION WORK SHIFT –** An eight-hour operating period based on the 24-hour operating schedule.

~~246~~ ~~PUBLIC ROADWAYS – Any roadways that are open to public travel.~~

~~247~~ **246** **RETURNED PRODUCTS –** Left-over concrete or asphalt products that were not used at a job site and were returned to the facility.

~~248~~ **247** **RUMBLE GRATE –** A system where the vehicle is vibrated while traveling over grates with the purpose of removing dust and other debris.

248 **SATURATED MATERIAL –** Mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators, and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be “saturated” for the purpose of this rule.

249 **SCREENING OPERATION –** A device that separates material according to its size by passing undersize material through one or more mesh surfaces (screens) in series and retaining oversize material on the mesh surfaces (screens).

250 **SILO –** An elevated ~~storage~~ container with ~~or without~~ a top ~~that releases material thru the bottom~~ with the potential to store, release, or transfer material through one or more openings or transfer points.

251 **SILT –** Any aggregate material with a particle size less than 75 micrometers in diameter, which passes through a No. 200 sieve.

252 **SPILLAGE –** ~~Any quantity of nonmetallic minerals/materials that spill~~ Material caused or allowed, especially accidentally or unintentionally, to flow, run, or fall out, over, or off and to become wasted, scattered, or lost while being processed or after having been processed by an affected operation, where such ~~spilled nonmetallic minerals/materials can~~ material has the potential to generate or cause fugitive dust. ~~emissions.~~

253 **STACK EMISSIONS –** ~~The particulate matter emissions~~ Emissions that are released to the atmosphere from a capture system through a building vent, stack or other point source discharge that include particulate matter or other emissions which have the potential to become particulate matter when released into the atmosphere or combined with other emissions from the same source.

254 **STAGING AREA –** A place where aggregate trucks and mixer trucks temporarily queue for their loading or unloading.

255 **TEMPORARY FACILITY –** A facility that occupies a designated site for not more than 180 days in a calendar year.

256 **TRACKOUT –** Any ~~and all bulk materials~~ material that has the potential to produce fugitive dust and to adhere to and agglomerate on the surfaces of motor vehicles, haul trucks, and/or equipment (including tires) and that ~~have~~ has fallen or been deposited onto ~~a paved~~ an area accessible to the public.

257 **TRACKOUT CONTROL DEVICE –** A gravel pad, grizzly, wheel washer, rumble grate, paved area, truck washer, or other equivalent trackout control device located at the point of intersection of an unpaved area and ~~a paved~~ an area accessible to the public that controls and prevents trackout and/or removes particulate matter from tires and the exterior surfaces of aggregate trucks, haul trucks, and/or motor vehicles that traverse a facility.

258 **TRANSFER POINT –** A point in a conveying operation where the nonmetallic mineral is transferred from or to a belt conveyor except for transfer to a stockpile.

259 **TRUCK DUMPING –** The unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include, but are not limited to, trucks, front end loaders, skip hoists, and railcars.

260 **TRUCK WASHER –** A system that is used to wash the entire surface and the tires of a truck.

261 **UNPAVED ROAD –** ~~Any roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal, or governmental or quasigovernmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.~~ Any road or equipment path that is not paved. For the purpose of this rule, an unpaved road is not a horse trail, hiking path, bicycle path, or other similar path used exclusively for purposes other than travel by motor vehicles.

262 **VENT –** An opening through which there is mechanically or naturally induced air flow for the purpose of exhausting air carrying particulate matter.

263 **WET MATERIAL PROCESSING OPERATION –** Either of the following:

263.1 Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors in the production line that process saturated materials up to the next crusher, grinding mill, or storage bin in the production line; or

263.2 Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

~~263~~ **264** **WHEEL WASHER –** A system that is capable of washing the entire circumference of each wheel of the vehicle.

~~264~~ ~~WIND EVENT – When the 60-minute average wind speed is greater than 25 miles per hour.~~

265 **WORK SITE –** Any property upon which any dust-generating operations occur.

SECTION 300 – STANDARDS

301 **CRUSHING AND SCREENING – PROCESS EMISSION LIMITATIONS AND CONTROLS:**

301.1 Process Emission Limitations: ~~The owner and/or operator shall~~ An owner, operator, or person subject to this rule must not discharge, ~~or~~ cause, or allow to be discharged into the ambient air:

a. Stack emissions: ~~exceeding 7% opacity and containing more than 0.02 grains/dry standard cubic foot (gr/dscf) (50 mg/dscm) of particulate matter.~~

(1) Exceeding 7% opacity.

(2) Containing more than 0.014 grains/dry standard cubic foot (gr/dscf) of particulate matter.

b. Fugitive dust emissions exceeding 7% opacity from any transfer point on a conveying system.

c. Fugitive dust emissions exceeding ~~15%~~ 12% opacity from any crusher.

d. Fugitive dust emissions exceeding ~~10%~~ 7% opacity from any affected operation or process source, excluding truck dumping.

e. Fugitive dust emissions exceeding 20% opacity from truck dumping directly into any screening operation, feed hopper, or crusher. Opacity observations to determine compliance with this section of this rule ~~shall~~ must be conducted in accordance with the techniques specified in Appendix C-Fugitive Dust Test Methods of these rules.

f. Visible emissions from wet material processing operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin.

301.2 Controls: ~~The owner and/or operator shall implement process controls described in Section 301.2(a), Section 301.2(b), and Section 301.2(c) of this rule or shall implement process controls described in Section 301.2(a) and Section 301.2(d) of this rule:~~ An owner, operator, or person subject to this rule must implement process controls described in Sections 301.2(a), (b), and (c) of this rule or must implement process controls described in Sections 301.2(c) and (d) of this rule. An owner, operator, or person subject to this rule may request an alternative to these requirements. Such request must meet the requirements in Section 314 of this rule.

a. ~~Enclose sides of all shaker screens.~~ Permanently mount process controls as specified in Sections 301.2(a)(1)-(3) of this rule:

(1) A fogging system or a misting system at the location of fugitive dust emissions from all crushers including, but not limited to, the inlet and outlet of all crushers;

(2) A watering system on the outlet of all shaker screens; and

(3) A watering system on the outlet of all material transfer points, excluding wet material processing operations.

b. ~~Permanently mount watering systems (e.g., spray bars or an equivalent control) on the points listed below for crushers, shaker screens, and material transfer points.~~ Operate process controls as specified in Sections 301.2(a)(1)-(3) of this rule and comply with the following standards:

(1) ~~Inlet and outlet of all crushers;~~ Continuously maintain one of the following minimum moisture contents:

(a) 4%;

(b) 2.5% for unwashed feed products for screens directly feeding a hot mix asphalt facility subject to Section 301.2(b) of this rule in the process line; or

(c) 2% for washed feed products for screens directly feeding a hot mix asphalt facility subject to Section 301.2(b) of this rule in the process line.

(2) ~~Outlet of all shaker screens; and~~ Explain/Describe in a Dust Control Plan/Dust Control Plan revision which of the moisture contents listed in Section 301.2(b)(1) of this rule will be maintained.

(3) ~~Outlet of all material transfer points, excluding wet plants.~~ Demonstrate compliance with one of the moisture contents listed in Section 301.2(b)(1) of this rule by conducting moisture testing as specified in Section 313 of this rule.

(4) Maintain the process controls in good operating condition, as verified by daily inspections.

(5) Conduct visible emissions observations daily at the location of fugitive dust emissions from all crushers including, but not limited to, the inlet and outlet of all crushers.

(a) Conduct one set of visible emissions observations within one hour after startup.

(b) Conduct an additional set of visible emissions observations during the night (e.g. after sunset), if the crushers operate during an additional work shift after sunset.

(b) If the presence of visible emissions is observed at any time, opacity observations must be conducted in accordance with EPA Reference Method 203B (Visual Determination Of Opacity Of Emissions From Stationary Sources For Time-Exception Regulations), as specified in Section 502.2 of this rule. Opacity observations must begin within one hour of any observation of visible emissions and the opacity readings must not exceed the applicable opacity limit.

(6) Investigate and correct any problems before continuing and/or resuming operations.

c. ~~Operate watering systems (e.g., spray bars or an equivalent control) on the points listed in Section 301.2(b) of this rule for crushers, shaker screens, and material transfer points, excluding wet plants, to continuously maintain a 4% minimum moisture content.~~ Enclose sides of all shaker screens.

~~(1) The watering systems shall be maintained in good operating condition, as verified by daily inspections.~~

~~(2) The owner and/or operator shall investigate and correct any problems before continuing and/or resuming operations.~~

~~(3) The owner and/or operator shall conduct soil moisture tests as follows:~~

~~(a) If the owner and/or operator is required to have in place a Fugitive Dust Control Technician according to Section 309 of this rule, then soil moisture tests shall be conducted twice daily in accordance with the test methods described in Section 502 of this rule.~~

~~(b) If the owner and/or operator is not required to have in place a Fugitive Dust Control Technician according to Section 309 of this rule, then soil moisture tests shall be conducted daily in accordance with the test methods described in Section 502 of this rule.~~

~~(c) If the owner and/or operator demonstrates that the 4% minimum moisture content is maintained for a minimum of four weeks, then soil~~

~~moisture tests may be conducted weekly in accordance with the test methods described in Section 502 of this rule.~~

~~(d) If the owner and/or operator fails to comply with the opacity limitations described in Section 301.1, Section 306.1, or Section 306.2 of this rule and/or if two consecutive soil moisture tests are below 4%, then the owner and/or operator shall conduct soil moisture tests in accordance with Section 301.2(c)(3)(a) or Section 301.2(c)(3)(b) of this rule, as applicable.~~

~~(e) If the owner and/or operator of a facility complies with both of the following requirements, then the number of sampling points identified in Section 502.3(c)(1) through (3) of this rule may be reduced:~~

~~(i) A soil moisture test is conducted in accordance with the test methods described in Section 502 of this rule at the primary crusher, which indicates that at least a 5% minimum moisture content is maintained; and~~

~~(ii) A demonstration that complies with Section 502.3(d) of this rule is submitted to and approved by the Control Officer and is complied with in accordance with Section 502.3(d) of this rule.~~

~~(4) The owner and/or operator may request in a permit application, with explanation, an alternative plan that justifies a minimum moisture content other than 4% and that justifies conducting fewer soil moisture tests as are required. In the request, the owner and/or operator shall submit to the Control Officer documentation regarding a minimum moisture content other than 4%, including, but not limited to: economics, emissions rates, water availability, and technical feasibility. In addition, the owner and/or operator shall demonstrate that the proposed alternative compliance demonstration plan will be equivalent in determining compliance with the soil moisture content requirements. Prior approval from the Control Officer and the Administrator shall be received before implementing the plan.~~

d. Enclose and exhaust the regulated process to a properly sized fabric filter baghouse.

302 ASPHALTIC CONCRETE PLANTS – PROCESS EMISSION LIMITATIONS AND CONTROLS:

302.1 Process Emission Limitations: ~~The owner and/or operator shall~~ An owner, operator, or person subject to this rule must not discharge, ~~or~~ cause, or allow to be discharged into the ambient air:

a. For non-rubberized asphaltic concrete plants, stack emissions: ~~exceeding 5% opacity and containing more than 0.04 gr/dscf (90 mg mg/dscm) of particulate matter.~~

(1) Exceeding 5% opacity.

(2) Containing more than 0.04 gr/dscf (90 mg/dscm) of particulate matter.

b. For rubberized asphaltic concrete plants (when producing rubberized asphalt only), stack emissions: ~~exceeding 20% opacity and containing more than 0.04 gr/dscf (90 mg/dscm) of particulate matter.~~

(1) Exceeding 20% opacity.

(2) Containing more than 0.04 gr/dscf (90 mg/dscm) of particulate matter.

c. Fugitive dust emissions exceeding ~~10%~~ 7% opacity from any affected operation or process source, excluding truck dumping.

302.2 Controls: ~~The owner and/or operator shall~~ An owner, operator, or person subject to this rule must~~, from all drum dryers,~~ control and vent exhaust from all drum dryers to a properly sized fabric filter baghouse. An owner, operator, or person subject to this rule may request an alternative to this requirement. Such request must meet the requirements in Section 314 of this rule.

303 ~~RAW~~ MATERIAL STORAGE AND DISTRIBUTION~~,~~ AND CONCRETE PLANTS~~, AND/OR BAGGING OPERATIONS~~ – PROCESS EMISSION LIMITATIONS AND CONTROLS:

303.1 Process Emission Limitations: ~~The owner and/or operator shall~~ An owner, operator, or person subject to this rule must not discharge, ~~or~~ cause, or allow to be discharged into the ambient air:

a. Stack emissions exceeding 5% opacity.

b. Fugitive dust emissions exceeding ~~10%~~ 7% opacity from any affected operation or process source, excluding truck dumping.

303.2 Controls: ~~The owner and/or operator shall~~ An owner, operator, or person subject to this rule must implement the following process controls. An owner, operator, or

person subject to this rule may request an alternative to these requirements. Such request must meet the requirements in Section 314 of this rule.

a. On all ~~cement, lime, and/or fly ash~~ dry material storage silo(s),:

(1) Install and operate an operational overflow warning system/device. The system/device ~~shall~~ must be designed to alert operator(s) to stop the loading operation when the ~~cement, lime, and/or fly ash~~ dry material storage silo(s) are reaching a capacity that could adversely impact pollution abatement equipment.

(2) Install and operate a pressure control system designed to shut-off dry material storage silo(s) filling processes/loading operations, if pressure from delivery truck is excessive, as defined in O&M Plan.

b. On new ~~cement, lime, and/or fly ash~~ dry material storage silo(s), install and operate a properly sized fabric filter baghouse or equivalent device designed to meet a maximum outlet grain loading of 0.01 gr/dscf.

c. On ~~dry mix concrete plant loading stations/~~truck mixed product, implement one of the following process controls:

(1) Install and operate a rubber fill tube;

(2) Install and operate a water spray;

(3) Install and operate a properly sized fabric filter baghouse or delivery system;

(4) Enclose mixer loading stations such that no visible emissions occur; or

(5) Conduct mixer loading stations in an enclosed process building such that no visible emissions from the building occur during the mixing activities.

~~d. On cement silo filling processing/loading operations controls, install a pressure control system designed to shut-off cement silo filling processes/loading operations, if pressure from delivery truck is excessive, as defined in O&M Plan.~~

~~304 OTHER ASSOCIATED OPERATIONS: All other affected operations or process sources not specifically listed in Sections 301, 302, or 303 of this rule associated with the processing of nonmetallic minerals, all other fugitive dust emission limitations not specifically listed in Section 306 of this rule, all other fugitive dust control measures not~~

~~specifically listed in Section 307 of this rule, and all overburden operations shall, at a minimum, meet the provisions of Rule 310 of these rules.~~

~~305~~ **304 AIR POLLUTION CONTROL EQUIPMENT AND APPROVED EMISSION CONTROL SYSTEM (ECS):** ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must provide, properly install and maintain in calibration, in good working order, and in operation air pollution control equipment required by this rule. An owner, operator, or person subject to this rule may request an alternative to these requirements. Such request must meet the requirements in Section 314 of this rule. ~~When selecting air pollution control equipment required by this rule, the owner and/or operator of a facility may consider the site-specific and/or material-specific conditions and logistics of a facility. When doing so, some air pollution control equipment may be more reasonable to implement than others. Regardless, any air pollution control equipment that is installed must achieve the applicable standard(s) required by this rule, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in this rule. The owner and/or operator of a facility may submit a request to the Control Officer and the Administrator for the use of alternative air pollution control equipment. The request shall include the proposed alternative air pollution control equipment, the air pollution control equipment that the alternative would replace, and a detailed statement or report demonstrating that the air pollution control equipment would result in equivalent or better emission control than the equipment prescribed in this rule. Nothing in this rule shall be construed to prevent an owner and/or operator of a facility from making such demonstration. Following a decision by the Control Officer and the Administrator to grant the petition, the facility shall incorporate the alternative air pollution control equipment in any required Operation and Maintenance (O&M) Plan.~~

~~305.1~~ **304.1 Operation and Maintenance (O&M) Plan Requirements For An ECS:**

a. ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must provide and maintain~~,~~ readily available on-site at all times~~,~~ (an) O&M Plan(s) for any ECS~~, any other emission processing equipment,~~ and any ECS monitoring devices that are used ~~pursuant to this rule or~~ to comply with this rule or to an air pollution control permit.

b. ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must submit to the Control Officer for evaluation and approval ~~the~~ every O&M Plan(s) for ~~each~~ any ECS ~~and for each~~ including any ECS monitoring device that is used ~~pursuant to~~ under this rule or required under an air pollution control permit.

c. ~~The owner and/or operator of a facility shall comply with all the identified actions and schedules provided in each O&M Plan.~~ An owner, operator, or person subject to this rule operating an ECS must install, maintain, and

accurately calibrate monitoring devices described in the O&M Plan(s) including, but not limited to, monitoring devices that measure pressure differentials and other operating conditions necessary to determine if control devices are functioning properly.

d. An owner, operator, or person, who is required to have an O&M Plan for any ECS including any ECS monitoring devices must fully comply with all O&M Plan(s) including, but not limited to, every action, schedule, and condition identified in each O&M Plan, that the owner, operator, or person has submitted for approval, even if such O&M Plan(s) have not yet been approved, unless notified in writing by the Control Officer.

e. An O&M Plan for any ECS including any ECS monitoring devices must include all of the following information:

(1) ECS equipment manufacturer;

(2) ECS equipment model;

(3) ECS equipment identification number or identifier that owner, operator, or person subject to this rule assigns to such ECS equipment when manufacturer's equipment identification number is unknown; and

(4) Information required by Sections 501.2 and 501.3 of this rule.

f. The Control Officer may issue a written notice to the owner, operator, or person subject to this rule, if the Control Officer determines any of the following:

(1) That an O&M Plan is incomplete;

(2) That an O&M Plan is approved; or

(3) That an approved O&M Plan has been followed, yet emissions still exceed the standards of this rule and, therefore, a revised O&M Plan is required.

g. The owner, operator, or person subject to this rule, who receives a notice as described in Section 304.1(f) of this rule, must make written revisions to the O&M Plan for any ECS including any ECS monitoring devices and must submit such revised O&M Plan to the Control Officer within three working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon written request, for good cause. During the time that such owner, operator, or person subject to this rule is

preparing revisions to the O&M Plan, such owner, operator, or person must still comply with all requirements of this rule.

~~305.2~~ **304.2 Operation And Maintenance (O&M) Plan Requirements For Fugitive Dust Control Measures:**

a. ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must provide and maintain~~,~~ readily available on-site at all times~~,~~ (an) O&M Plan(s) for equipment associated with any process fugitive emissions and fugitive dust control measures ~~(i.e.,~~ including, but not limited to, gravel pads, wheel washers, truck washers, rumble grates, watering systems, and street sweepers~~)~~ that are implemented to comply with this rule or to an air pollution control permit.

b. ~~The owner and/or operator of a facility shall comply with all the identified actions and schedules provided in each O&M Plan.~~ An owner, operator, or person subject to this rule must submit to the Control Officer for evaluation and approval every O&M Plan(s) for any equipment associated with any process fugitive emissions and fugitive dust control measures.

c. An owner, operator, or person, who is required to have an O&M Plan for any equipment associated with any process fugitive emissions and fugitive dust control measures must fully comply with all O&M Plan(s) including, but not limited to, every action, schedule, and condition identified in each O&M Plan, that the owner, operator, or person has submitted for approval, even if such O&M Plan(s) have not yet been approved, unless notified in writing by the Control Officer.

d. An O&M Plan for any equipment associated with any process fugitive emissions and fugitive dust control measures must include all of the following information:

(1) Equipment identification number or identifier that owner, operator, or person subject to this rule assigns to such equipment when manufacturer's equipment identification is unknown;

(2) Operating parameters;

(3) Number of each piece of equipment; and

(4) Information required by Sections 501.2 and 501.3 of this rule.

e. The Control Officer may issue a written notice to the owner, operator, or person subject to this rule, if the Control Officer determines any of the following:

(1) That an O&M Plan is incomplete;

(2) That an O&M Plan is approved; or

(3) That an approved O&M Plan has been followed, yet emissions still exceed the standards of this rule and, therefore, a revised O&M Plan is required.

f. The owner, operator, or person subject to this rule, who receives a notice as described in Section 304.2(e) of this rule, must make written revisions to the O&M Plan and must submit such revised O&M Plan to the Control Officer within three working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon written request, for good cause. During the time that such owner, operator, or person subject to this rule is preparing revisions to the O&M Plan, such owner, operator, or person must still comply with all requirements of this rule.

~~305.3 Providing and Maintaining ECS Monitoring Devices: An owner and/or operator of a facility operating an ECS pursuant to this rule shall install, maintain, and calibrate monitoring devices described in the O&M Plan(s). The monitoring devices shall measure pressures, rates of flow, and/or other operating conditions necessary to determine if the control devices are functioning properly.~~

~~305.4 O&M Plan Responsibility: An owner and/or operator of a facility that is required to have an O&M Plan pursuant to Section 305 of this rule must fully comply with all O&M Plans that the owner and/or operator has submitted for approval, even if such O&M Plans have not yet been approved, unless notified in writing by the Control Officer.~~

~~306~~ **305 FUGITIVE DUST EMISSION LIMITATIONS:** An owner, operator, or person subject to this rule must comply with the following fugitive dust emission limitations at all times and in all areas of a site, unless specified as applying in a specific area of a site.

~~306.1~~ **305.1 20% Opacity Limitation:** For emissions that are not already regulated by an opacity limit, ~~the owner and/or operator of a facility shall~~ an owner, operator, or person subject to this rule must not discharge, ~~or~~ cause, or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Section 502 of this rule and in Appendix C-Fugitive Dust Test Methods of these rules.

~~306.2~~ **305.2** **Visible Emission Limitation Beyond The Property Line:** ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must not discharge, cause, or allow ~~fugitive dust emissions from any active operation, open storage pile, or disturbed surface area associated with such facility such that the presence of such fugitive dust emissions remain visible in the atmosphere beyond the property line of such facility~~ visible emissions of particulate matter, including fugitive dust, beyond the property line within which the emissions are generated.

~~306.3~~ **305.3** **Wind Event:** ~~The fugitive dust emission limitations described in Section 306.1 and Section 306.2 of this rule shall not apply during a wind event, if the owner and/or operator of a facility meets the following conditions:~~ If wind conditions cause fugitive dust emissions to exceed the visible emissions requirements in Sections 305.1 and 305.2 of this rule, despite implementation of the Dust Control Plan, an owner, operator, or person subject to this rule must:

a. ~~Has implemented the fugitive dust control measures described in Section 307 of this rule, as applicable;~~ Ensure that all control measures and requirements of the Dust Control Plan are implemented and the subject violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.

b. ~~Has compiled and retained records, in accordance with Section 501.4 of this rule, and has documented by records the occurrence of a wind event on the day(s) in question. The occurrence of a wind event must be determined by the nearest Maricopa County Air Quality Department monitoring station, from any other certified meteorological station, or by a wind instrument that is calibrated according to manufacturer's standards and that is located at the site being checked; and~~ Cease dust-generating operations and stabilize any disturbed surface area consistent with Section 306 of this rule.

~~c.~~ ~~Has implemented the following high wind fugitive dust control measures, as applicable:~~

~~(1) For an active operation, implement one of the following fugitive dust control measures, in accordance with the test methods described in Section 503 and Section 504 of this rule and in Appendix C Fugitive Dust Test Methods of these rules:~~

~~(a) Cease active operation that may contribute to an exceedance of the fugitive dust emission limitations described in Section 306.1 of this rule for the duration of the wind event and, if active operation is ceased for the remainder of the workday, stabilize the area; or~~

~~(b) Before and during active operations, apply water or other suitable dust suppressant other than water to keep the soil visibly moist.~~

~~(2) For an inactive open storage pile, implement one of the following fugitive dust control measures, in accordance with the test methods described in Section 503 and Section 504 of this rule and in Appendix C-Fugitive Dust Test Methods of these rules:~~

~~(a) Maintain a soil crust by applying water or other suitable dust suppressant other than water or by implementing another fugitive dust control measure, in sufficient quantities to meet the stabilization standards described in Section 505 of this rule.~~

~~(b) Cover open storage pile with tarps, plastic, or other material such that wind will not remove the covering, if open storage pile is less than eight feet high.~~

~~(3) For an inactive disturbed surface area, implement one of the following fugitive dust control measures, in accordance with the test methods described in Section 503 and Section 504 of this rule and in Appendix C-Fugitive Dust Test Methods of these rules:~~

~~(a) Uniformly apply and maintain surface gravel or a dust suppressant other than water; or~~

~~(b) Maintain a soil crust by applying water or other suitable dust suppressant other than water or by implementing another fugitive dust control measure, in sufficient quantities to meet the stabilization standards described in Section 505 of this rule.~~

c. Compile records consistent with Section 501 of this rule and document control measure and other Dust Control Plan requirement implementation.

~~306.4~~ **305.4 Silt Loading And Silt Content Standards For Unpaved Roads And Unpaved Parking And Staging Areas:** ~~From unpaved roads and unpaved parking and staging areas, the owner and/or operator of a facility shall not discharge or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Section 502 of this rule and in Appendix C-Fugitive Dust Test Methods of these rules, and one of the following:~~

a. For unpaved roads, ~~silt loading equal to or greater than 0.33 oz/ft^2 or silt content exceeding 6%~~ an owner, operator, or person subject to this rule must not allow silt loading equal to or greater than 0.33 oz/ft^2. However, if silt

loading is equal to or greater than 0.33 oz/ft^2, then the owner, operator, or person must not allow the silt content to exceed 6%.

b. For unpaved parking and staging areas, ~~silt loading equal to or greater than 0.33 oz/ft^2 or silt content exceeding 8%~~ an owner, operator, or person subject to this rule must not allow silt loading equal to or greater than 0.33 oz/ft^2. However, if silt loading is equal to or greater than 0.33 oz/ft^2, then the owner, operator, or person must not allow the silt content to exceed 8%.

~~306.5~~ **306 STABILIZATION STANDARDS:**

~~a.~~ **306.1** ~~An owner and/or operator of a facility with an open area or a disturbed surface area on which no activity is occurring (including areas that are temporarily or permanently inactive) shall be considered in violation of this rule if area is not maintained in a manner that meets at least one of the standards listed below, as applicable.~~ In addition to complying with the fugitive dust emission limitations described in Section 305 of this rule, if any portion of a site is not moist/wet, the owner, operator, or person subject to this rule must stabilize the site in order to meet at least one of the standards listed below, as applicable:

~~(1)~~ **a.** Maintain a soil crust;

~~(2)~~ **b.** Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher;

~~(3)~~ **c.** Maintain a flat vegetative cover (i.e., attached (rooted) vegetation or unattached vegetative debris lying on the surface with a predominant horizontal orientation that is not subject to movement by wind) that is equal to at least 50%;

~~(4)~~ **d.** Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%;

~~(5)~~ **e.** Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 10% and where the threshold friction velocity is equal to or greater than 43 cm/second when corrected for non-erodible elements;

~~(6)~~ **f.** Maintain a percent cover that is equal to or greater than 10% for non-erodible elements; or

~~(7)~~ **g.** ~~Comply with a standard of an alternative test method, upon obtaining the written approval from the Control Officer and the Administrator.~~ Request an

alternative to these requirements. Such request must meet the requirements in Section 314 of this rule.

~~b.~~ **306.2** ~~If no activity is occurring on an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility and if an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility contain~~ If a site that is being stabilized according to Section 306.1 of this rule contains more than one type of visibly distinguishable stabilization characteristics, soil, vegetation, or other characteristics, ~~which are visibly distinguishable, the owner and/or operator shall~~ the owner, operator, or person subject to this rule must test each representative surface separately for stability, in an area that represents a random portion of the overall disturbed conditions of the site, in accordance with the appropriate test methods described in Section 505 of this rule and in Appendix C-Fugitive Dust Test Methods of these rules.

307 FUGITIVE DUST CONTROL MEASURES: ~~The owner and/or operator of a nonmetallic mineral processing plant and/or a rock product processing plant shall implement~~ An owner, operator, or person subject to this rule must install, maintain, and use the fugitive dust control measures described in this section of this rule, in addition to complying with the fugitive dust emission limitations described in Section 305 of this rule. An owner, operator, or person subject to this rule may request an alternative to these requirements. Such request must meet the requirements in Section 314 of this rule. ~~When selecting a fugitive dust control measure(s), the owner and/or operator of a facility may consider the site-specific and/or material-specific conditions and logistics of a facility. When doing so, some fugitive dust control measures may be more reasonable to implement than others. Regardless, any fugitive dust control measure that is implemented must achieve the applicable standard(s) described in Section 306 of this rule, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in this rule. The owner and/or operator of a facility may submit a request to the Control Officer and the Administrator for the use of alternative control measure(s). The request shall include the proposed alternative control measure, the control measure that the alternative would replace, and a detailed statement or report demonstrating that the measure would result in equivalent or better emission control than the measures prescribed in this rule. Nothing in this rule shall be construed to prevent an owner and/or operator of a facility from making such demonstration. Following a decision by the Control Officer and the Administrator to grant the petition, the facility shall incorporate the alternative control measure in any required Dust Control Plan. When engaged in the activities described in Section 301 and Section 307.1 through Section 307.9 of this rule, the owner and/or operator of a facility shall install, maintain, and use fugitive dust control measures as described in Section 307.1 through Section 307.9 of this rule, as applicable.~~

307.1 Open Storage Piles And Material Handling: ~~The owner and/or operator of a facility shall~~ The owner, operator, or person subject to this rule must implement all of the following fugitive dust control measures, as applicable. For the purpose of this rule, open storage pile(s) and material handling ~~does~~ do not include berms and guard rails that are installed to comply with 30 CFR 56.93000. However, such berms and guard rails ~~shall~~ must be installed and maintained in compliance with ~~Section 306.1, Section 306.2, and Section 306.5~~ Sections 305.1, 305.2, and 306 of this rule.

a. Prior to~~, and/or while~~ conducting loading and unloading operations, implement one of the following fugitive dust control measures:

(1) ~~Spray~~ Mix material with water~~, as necessary~~; or

(2) ~~Spray~~ Mix material with a dust suppressant other than water~~, as necessary~~.

b. While conducting loading and unloading operations, implement one of the following fugitive dust control measures:

(1) Apply water; or

(2) Apply a dust suppressant other than water.

~~b.~~ **c.** When not conducting loading and unloading operations, implement one of the following fugitive dust control measures:

~~(1) Spray material with water, as necessary;~~

~~(2)~~ **(1)** ~~Maintain~~ Apply water to maintain a 1.5% or more soil moisture content of the open storage pile(s);

~~(3)~~ **(2)** Locate open storage pile(s) in a pit/in the bottom of a pit;

~~(4)~~ **(3)** Arrange open storage pile(s) such that storage pile(s) of larger diameter products are on the perimeter and act as barriers to/for open storage pile(s) that could create fugitive dust emissions;

~~(5)~~ **(4)** Construct and maintain wind barriers, storage silos, or a three-sided enclosure with walls, whose length is no less than equal to the length of the pile, whose distance from the pile is no more than twice the height of the pile, whose height is equal to the pile height, and whose porosity is no more than 50%; or

~~(6)~~ **(5)** Cover open storage piles with tarps, plastic, or other material to prevent wind from removing the coverings.

~~c.~~ **d.** When installing new open storage pile(s) at an existing facility and/or when installing new open storage pile(s) at a new facility, ~~the owner and/or operator shall~~ an owner, operator, or person subject to this rule must implement all of the following fugitive dust control measures: ~~, only if it is determined to be feasible on a case-by-case basis through the Dust Control Plan by assessing the amount of open land available at the property at the time the new open storage pile(s) are formed:~~

(1) Install the open storage pile(s) ~~at least~~ 25 feet or more from the property line. An owner, operator, or person subject to this rule may be allowed to install the open storage pile(s) less than 25 feet from the property line, if the owner, operator, or person subject to this rule can demonstrate to the Control Officer that there is not adequate space to install the open storage pile(s) 25 feet or more from the property line. Such demonstration must be made and approved in writing by the Control Officer and must be approved in the Dust Control Plan; and

(2) Limit the height of the open storage pile(s) to less than 45 feet.

~~d.~~ **e.** For existing open storage pile(s) and when installing open storage pile(s) for an existing facility or for a new facility, if such open storage pile(s) will be constructed over eight feet high and will not be covered, then ~~the owner and/or operator shall~~ the owner, operator, or person subject to this rule must install, use, and maintain a water truck or other method that is capable of completely wetting the surfaces of the open storage pile(s).

307.2 Surface Stabilization Where Support Equipment And Vehicles Operate: ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must implement one of the following fugitive dust control measures on areas other than the areas identified in Section 307.3 and Section 307.4 of this rule where loaders, support equipment, and vehicles operate.

a. Apply and maintain water;

b. Apply and maintain a dust suppressant, other than water; or

c. Apply a gravel pad in compliance with ~~Section 307.6(b)(4)~~ Section 307.6(a)(2)(d) of this rule.

307.3 Haul/Access Roads That Are Not In Permanent Areas Of A Facility:

a. ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must implement one of the following fugitive dust control measures, as applicable, before engaging in the use of, or in the maintenance of, haul/access roads. Compliance with the provisions of this section of this rule ~~shall~~ does not relieve any person subject to the requirements of this section of this rule from complying with any other federally enforceable requirements (i.e., a permit issued under Section 404 of the Clean Water Act).

(1) Install and maintain bumps, humps, or dips for speed control and apply water, ~~as necessary~~ so that the surface is visibly moist;

(2) Limit vehicle speeds and apply water, ~~as necessary~~ so that the surface is visibly moist;

(3) ~~Pave~~ Install and maintain a paved surface;

(4) Apply and maintain a gravel pad in compliance with ~~Section 307.6(b)(4)~~ Section 307.6(a)(2)(d) of this rule;

(5) Apply a dust suppressant other than water; or

(6) Install and maintain a cohesive hard surface.

b. For a new facility, if it is determined that none of the fugitive dust control measures described in Section 307.3(a) of this rule can be technically and feasibly implemented, then ~~the owner and/or operator of a new facility shall~~ the owner, operator, or person subject to this rule must maintain ~~a minimum~~ distance of 25 feet or more from the property line for haul/access roads associated with the new facility. Such determination ~~shall~~ must be made and approved in writing by the Control Officer and the Administrator and ~~shall~~ must be approved in the Dust Control Plan.

307.4 On-Site Traffic:

a. ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must require all batch trucks and ~~material~~ delivery trucks to remain on roads with paved surfaces or cohesive hard surfaces, except when driving on roads leading to and from areas for returned products, as approved in the Dust Control Plan.

b. ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must require all aggregate trucks to remain on paved surfaces or cohesive hard surfaces, except when driving on roads leading to

and from aggregate loading areas/loading operations, as approved in the Dust Control Plan.

c. ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must require all batch trucks, ~~and material~~ delivery trucks, and motor vehicles to ~~enter and~~ exit the facility/operation only through ~~entrances~~ exits that comply with the trackout requirements in Section 307.6 of this rule.

d. ~~The owner and/or operator of a facility shall pave or install a cohesive hard surface on~~ An owner, operator, or person subject to this rule must pave or install and maintain a cohesive hard surface in permanent areas of a facility on which vehicles drive, as approved in the Dust Control Plan.

e. An owner, operator, or person subject to this rule hauling bulk material on-site within the boundaries of the work site must implement one of the following fugitive dust control measures:

(1) Limit vehicle speed to 15 miles per hour or less while traveling on the work site;

(2) Apply water to the top of the load; or

(3) Cover haul trucks with a tarp or other suitable closure.

307.5 Off-Site Traffic: ~~When hauling and/or transporting bulk material off-site, the owner and/or operator of a facility shall implement all of the following control measures:~~ An owner, operator, or person subject to this rule hauling bulk material off-site must implement the following fugitive dust control measures:

a. Load all haul trucks such that the freeboard is not less than three inches;

b. Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides, and/or tailgate(s); and

c. Cover haul trucks with a tarp or other suitable closure.

307.6 Trackout: An owner, operator, or person subject to this rule must not allow trackout to extend a cumulative distance of 25 linear feet or more from all facility exits onto areas accessible to the public. Notwithstanding the preceding, all accumulations of trackout on areas accessible to the public, including curbs, gutters, and sidewalks, must be cleaned up and removed at the end of the workday. In addition, an owner, operator, or person subject to this rule must comply with all of the following requirements:

a. Types Of Trackout Control Devices Required:

~~a.~~ **(1)** ~~Rumble Grate and Wheel Washer~~ **For Facilities With 60 Or More Motor Vehicles Exiting On Any Day**: ~~The owner and/or operator of a new permanent facility and the owner and/or operator of an existing permanent facility with a minimum of 60 aggregate trucks, mixer trucks, and/or batch trucks exiting a facility on any day onto paved public roadways/paved~~ The owner, operator, or person subject to this rule of a new permanent facility or of an existing permanent facility with 60 or more motor vehicles exiting a facility on any day onto areas accessible to the public ~~shall~~ must install, maintain, and use a rumble grate and wheel washer, in accordance with all of the following conditions, as applicable. For the purpose of this ~~rule~~ section of this rule, a vehicle wash and/or a cosmetic wash may be substituted for a wheel washer, provided such vehicle wash and/or cosmetic wash has at least 40 pounds per square inch (psi) water spray from the nozzle (~~owner and/or operator of the facility shall~~ an owner, operator, or person subject to this rule must have a water pressure gauge available on-site to allow verification of such water pressure), meets the definition of wheel washer (i.e., is capable of washing the entire circumference of each wheel of the vehicle), is operated in such a way that visible deposits are removed from the entire circumference of each wheel of the vehicle exiting the wash, is installed, maintained, and used in accordance with criteria in ~~Section 307.6(a)(1)-(5)~~ Section 307.6(a)(1)(a)-(e) of this rule, and is approved in the Dust Control Plan for the facility.

~~(1)~~ **(a)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must locate a rumble grate within 10 feet from a wheel washer.

~~(a)~~ **(i)** The rumble grate and wheel washer ~~shall~~ must be located no less than 30 feet prior to each exit that leads to ~~a paved public roadway/paved~~ an area accessible to the public and that is used by ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles.

~~(b)~~ **(ii)** ~~The owner and/or operator of a facility~~ An owner, operator, or person subject to this rule may be allowed to install a rumble grate and wheel washer less than 30 feet prior to each exit if ~~the owner and/or operator of a facility~~ the owner, operator, or person subject to this rule can demonstrate to the Control Officer that there is not adequate space to install a rumble grate and wheel washer no less than 30 feet prior to each exit and that a rumble grate and wheel washer at a shorter distance will be adequate to prevent trackout.

~~(c)~~ **(iii)** A rumble grate ~~shall~~ must consist of raised dividers (rails, pipes, or grates) a minimum of three inches tall, six inches apart, and 20 feet long, to allow a vibration to be produced such that dust is shaken off the wheels of a vehicle as the entire circumference of each wheel of the vehicle passes over the rumble grate.

~~(2)~~ **(b)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must ensure that all ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles exit the facility via the rumble grate first and then the wheel washer.

~~(3)~~ **(c)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must post a sign by the rumble grate and wheel washer to designate the speed limit as 5 miles per hour.

~~(4)~~ **(d)** ~~The owner and/or operator of a facility shall pave~~ An owner, operator, or person subject to this rule must install and maintain a paved surface on the roads from the rumble grate and wheel washer to the facility exits leading to ~~paved public roadways/paved~~ areas accessible to the public.

~~(5)~~ **(e)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must ensure that all ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles remain on the paved roads between the rumble grate and wheel washer and the facility exits leading to ~~paved public roadways/paved~~ areas accessible to the public.

~~b.~~ **(2)** ~~Rumble Grate, Wheel Washer, or Truck Washer~~ **For Facilities With Less Than 60 Motor Vehicles Exiting On Any Day**: ~~The owner and/or operator of a facility~~ An owner, operator, or person not subject to ~~Section 307.6(a)~~ Section 307.6(a)(1) of this rule ~~shall~~ must install, maintain, and use a rumble grate, wheel washer, or truck washer in accordance with all of the following:

~~(1)~~ **(a)** A rumble grate, wheel washer, or truck washer ~~shall~~ must be located no less than 30 feet prior to each exit that leads to ~~a paved public roadway/paved~~ an area accessible to the public and that is used by ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles.

~~(a)~~ **(i)** ~~The owner and/or operator of a facility~~ An owner, operator, or person subject to this rule may be allowed to install a rumble grate, wheel washer, or truck washer less than 30 feet prior to each exit if ~~the owner and/or operator of a facility~~ the owner, operator, or

person subject to this rule can demonstrate to the Control Officer that there is not adequate space to install a rumble grate, wheel washer, or truck washer no less than 30 feet prior to each exit and that a rumble grate, wheel washer, or truck washer at a shorter distance will be adequate to prevent trackout.

~~(b)~~ **(ii)** A rumble grate ~~shall~~ must consist of raised dividers (rails, pipes, or grates) a minimum of three inches tall, six inches apart, and 20 feet long, to allow a vibration to be produced such that dust is shaken off the wheels of a vehicle as the entire circumference of each wheel of the vehicle passes over the rumble grate.

~~(2)~~ **(b)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must ensure that all ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles exit the facility via a rumble grate, wheel washer, or truck washer.

~~(3)~~ **(c)** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must post a sign by the rumble grate, wheel washer, or truck washer to designate the speed limit as 5 miles per hour.

~~(4)~~ **(d)** If haul/access roads are unpaved between the rumble grate, wheel washer, or truck washer and the facility exits leading to ~~paved public roadways/ paved~~ areas accessible to the public, a gravel pad ~~shall~~ must be installed, maintained, and used from the rumble grate, wheel washer, or truck washer to such ~~paved public roadways/paved~~ areas accessible to the public in accordance with all of the following:

~~(a)~~ **(i)** Gravel pad ~~shall~~ must be designed with a layer of washed gravel, rock, or crushed rock that is at least one inch or larger in diameter and ~~6 inches~~ 3 inches deep, 30 feet wide, and 50 feet long ~~and shall be flushed with water or completely replaced as necessary to comply with the trackout threshold described in Section 307.6(d) of this rule~~ or the length of the longest haul truck, whichever is greater. If an unpaved surface exit does not have adequate width to install a 30-foot wide gravel pad, then the width of the gravel pad must cover the full width of the unpaved surface exit and such shorter width must be adequate to prevent trackout.

~~(b)~~ **(ii)** Gravel pad ~~shall~~ must have a gravel pad stabilizing mechanism/device (i.e., curbs or structural devices along the perimeter of the gravel pad) and ~~shall~~ must be flushed with water

or completely replaced as necessary to comply with the trackout threshold described in ~~Section 307.6(d)~~ Section 307.6 of this rule.

~~c.~~ **b. Exemptions** ~~for Wheel Washers~~**:** ~~The owner and/or operator of a facility shall not be required to install, maintain, and use a wheel washer, if any one of the following are applicable:~~

(1) Wheel Washers: The owner, operator, or person subject to this rule is not required to install, maintain, or use a wheel washer, if any of the following are applicable:

~~(1)~~ **(a)** A facility has all paved roads and meters aggregate or related materials directly to a ready-mix or hot mix asphalt truck. ~~, with the exception of returned products.~~ ~~The owner and/or operator of the facility shall~~ An owner, operator, or person subject to this rule must install, maintain, and use a rumble grate in compliance with ~~Section 307.6(b)~~ Section 307.6(a)(2) of this rule.

~~(2)~~ **(b)** A facility is less than 5 acres in land size and handles recycled asphalt and recycled concrete exclusively. ~~The owner and/or operator of the facility shall~~ An owner, operator, or person subject to this rule must install, maintain, and use a rumble grate in compliance with ~~Section 307.6(b)~~ Section 307.6(a)(2) of this rule and ~~shall~~ must install a gravel pad in compliance with ~~Section 307.6(b)(4)~~ Section 307.6(a)(2)(d) of this rule on all unpaved roads leading to the facility exits leading to ~~paved public roadways/paved~~ areas accessible to the public.

~~(3)~~ **(c)** A facility has a minimum of ¼ mile paved roads leading from a rumble grate to the facility exits leading to ~~paved public roadways/paved~~ areas accessible to the public.

~~(4)~~ **(d)** A facility meets the definition of infrequent operations, as defined in ~~Section 229~~ Section 230 of this rule. ~~The owner and/or operator of the facility shall~~ An owner, operator, or person subject to this rule must install, maintain, and use a rumble grate in compliance with ~~Section 307.6(b)~~ Section 307.6(a)(2) of this rule and ~~shall~~ must install a gravel pad in compliance with ~~Section 307.6(b)(4)~~ Section 307.6(a)(2)(d) of this rule. The gravel pad ~~shall~~ must be installed for a distance of no less than 100 feet from the rumble grate to the facility exits leading to ~~paved public roadways/paved~~ areas accessible to the public. ~~The owner and/or operator of the facility shall~~ An owner, operator, or person subject to this rule must keep records in accordance with Section 500 of this rule, as applicable. ~~The owner and/or operator of the facility shall~~ An owner, operator, or person subject to this rule

must notify the Control Officer in the event that the facility will operate more than 52 days per year based on the average rolling 3-year period after June 8, 2005 and ~~the owner and/or operator of the facility shall~~ an owner, operator, or person subject to this rule must comply with ~~Section 307.6~~ Section 307.6 of this rule, as applicable.

(2) Other: The owner, operator, or person subject to this rule is not required to install, maintain, or use a wheel washer, rumble grate, or other trackout control device specified in Section 307.6 of this rule, where the only possible fugitive dust release from the facility may be generated from a process that is otherwise vented or controlled through a traditional device and provided the following controls are in place:

(a) All internal travel, parking, and vehicle maneuvering areas are installed and maintained with a paved surface.

(b) Any processes that create dust are captured and vented to a baghouse or wet scrubber.

(c) Pinch valve(s) or other type of device prevents spillage during silo loading or, for rail car unloading, the rail car bottom dumping does not allow material to enter into any travel, parking, or vehicle maneuvering area.

~~d. Trackout Distance: An owner and/or operator of a facility shall not allow trackout to extend a cumulative distance of 25 linear feet or more from all facility exits onto paved areas accessible to the public. Notwithstanding the proceeding, the owner and/or operator of a facility shall clean up all other trackout at the end of the workday.~~

e. Cleaning Paved Roads Identified In The Dust Control Plan: ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must clean all paved roads identified in the Dust Control Plan for a facility in accordance with all of the following as applicable:

(1) ~~The owner and/or operator of a facility with a minimum of 60 aggregate trucks, mixer trucks, and/or batch trucks~~ An owner, operator, or person subject to this rule with 60 or more motor vehicles exiting the facility on any day ~~shall~~ must sweep the paved roads with a street sweeper by the end of each production work shift, if there is evidence of ~~dirt and/or other bulk material extending a cumulative distance of 12 linear feet or more~~ spillage on any paved road.

(2) ~~The owner and/or operator of a facility with less than 60 aggregate trucks, mixer trucks, and/or batch trucks~~ An owner, operator, or person subject to this rule with less than 60 motor vehicles exiting the facility on any day ~~shall~~ must sweep the paved roads with a street sweeper by the end of every other workday. On the days that paved roads are not swept, ~~the owner and/or operator of a facility shall~~ an owner, operator, or person subject to this rule must apply water on at least 100 feet of paved roads or the entire length of paved roads leading to an exit to ~~paved public roadways/paved~~ areas accessible to the public, if such roadways are less than 100 feet long.

(3) ~~The owner and/or operator of a facility~~ An owner, operator, or person subject to this rule, who purchases street sweepers after June 8, 2005, ~~shall~~ must purchase street sweepers that meet the criteria of PM_{10}-efficient South Coast Air Quality Management Rule 1186 certified street sweepers.

(4) ~~The owner and/or operator of a new facility shall~~ An owner, operator, or person subject to this rule with a new facility must use South Coast Air Quality Management Rule 1186 certified street sweepers to sweep paved roads.

307.7 Pad Construction For Processing Equipment: ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must implement, maintain, and use fugitive dust control measures during the construction of pads for processing equipment, so as to meet all of the applicable requirements in this rule, and ~~shall~~ must identify in the Dust Control Plan such fugitive dust control measures.

307.8 Spillage: In addition to complying with the fugitive dust emission limitations described in ~~Section 306~~ Section 305 of this rule and implementing fugitive dust control measures described in ~~Section 307.1 through Section 307.9~~ Section 307 of this rule, as applicable, ~~the owner and/or operator of a facility shall implement the following fugitive dust control measures:, as applicable, when spillage occurs~~ an owner, operator, or person subject to this rule must comply with the following requirements:

a. Promptly remove any ~~pile of~~ spillage on paved haul/access roads/paved roads; or

b. Maintain in a stabilized condition any ~~pile of~~ spillage on paved haul/access roads/paved roads and remove such ~~pile~~ spillage by the end of each day; and

c. Maintain in a stabilized condition all other ~~piles of~~ spillage with dust suppressants until removal.

307.9 **Nighttime Operations:** ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must implement, maintain, and use fugitive dust control measures at night, ~~as approved in the Dust Control Plan.~~ so as to meet all of the applicable requirements in this rule, and must identify in the Dust Control Plan such fugitive dust control measures.

307.10 **Blasting Operations:** An owner, operator, or person subject to this rule must implement all of the following fugitive dust control measures when conducting blasting operations:

a. Prior to blasting, apply water or apply a dust suppressant other than water where drills, support equipment, and vehicles will operate.

b. Maintain surface rock and vegetation where possible to reduce exposure of disturbed soil to wind.

c. Immediately following the blast and safety clearance, apply water or apply a dust suppressant other than water to all disturbed surface areas.

307.11 **Overburden Removal Operations:** An owner, operator, or person subject to this rule must implement the following fugitive dust control measures when conducting overburden removal operations:

a. Before overburden removal operations begin, implement one of the following control measures:

(1) Pre-water to depth of cuts in area where overburden will be removed, allowing time for penetration; or

(2) Phase work to reduce the amount of disturbed surface areas at any one time.

b. While overburden removal operations are being conducted, implement one of the following control measures:

(1) Apply water or other suitable dust suppressant other than water to keep the soil visibly moist throughout the process; or

(2) Implement control measure described in Section 307.11(b)(1) of this rule and construct fences or three-foot to five-foot high wind barriers with 50% or less porosity adjacent to roadways or urban areas to reduce the amount of wind-blown material leaving a site.

c. When overburden removal operation is finished for a period of 30 days or longer – for longer than temporary pauses that occur during the operation, the owner, operator, or person subject to this rule must implement one or more of the following control measures within ten days following the completion of the overburden removal operation:

(1) Pave, apply gravel, or apply a suitable dust suppressant other than water;

(2) Establish vegetative ground cover;

(3) Implement control measures described in Section 307.11(c)(1) or Section 307.11(c)(2) of this rule and restrict vehicle access to the area;

(4) Apply water and prevent access by fences, ditches, vegetation, berms, or other suitable barrier or means sufficient to prevent trespass as approved by the Control Officer; or

(5) Restore area such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby undisturbed native conditions.

308 FACILITY INFORMATION SIGN: ~~The owner and/or operator of a facility~~ An owner, operator, or person subject to this rule ~~shall~~ must erect and maintain a facility information sign at the main entrance such that members of the public can easily view and read the sign at all times. Such sign ~~shall~~ must have a white background, have black block lettering that is at least four inches high, and ~~shall~~ must contain at least all of the following information.

308.1 Facility name and permittee's name;

308.2 Current number of the air quality permit or of authority to operate under a general permit;

308.3 Name and local phone number of person(s) responsible for dust control matters; and

308.4 Text stating: "Dust complaints? Call Maricopa County Air Quality Department - (Insert the ~~accurate~~ current Maricopa County Air Quality Department complaint line telephone number)."

309 FUGITIVE DUST CONTROL TECHNICIAN: ~~The owner and/or operator of a facility~~ An owner, operator, or person subject to this rule with a rated or permitted capacity of 25 tons or more of material per hour or with five acres or more of disturbed surface area subject to a permit, whichever is greater, ~~shall~~ must have in place a Fugitive Dust Control Technician, who ~~shall~~ must meet all of the following qualifications:

309.1 Be authorized by the owner and/or operator of the facility to have full authority to ensure that fugitive dust control measures are implemented on-site and to conduct routine inspections, recordkeeping, and reporting to ensure that all fugitive dust control measures are installed, maintained, and used in compliance with this rule.

309.2 Be trained in accordance with the Comprehensive Dust Control Training Class conducted or approved by the Control Officer, successfully complete, at least once every three years, such Comprehensive Dust Control Training Class, and have a valid dust training certification identification card readily accessible on-site while acting as a Fugitive Dust Control Technician.

309.3 Be authorized by ~~the owner and/or operator of the facility~~ the owner, operator, or person subject to this rule to install, maintain, and use fugitive dust control measures, deploy resources, and shutdown or modify activities as needed.

309.4 Be on-site at all times during primary dust-generating operations related to the purposes for which the permit was obtained.

309.5 Be certified to determine opacity as visible emissions in accordance with the provisions of the EPA Method 9 as specified in 40 CFR, Part 60, Appendix A.

309.6 Be authorized by ~~the owner and/or operator of the facility~~ the owner, operator, or person subject to this rule to ensure that the site superintendent or other designated on-site representative of ~~the owner and/or operator of the facility~~ the owner, operator, or person subject to this rule and water truck and water pull drivers for each site be trained in accordance with the Basic Dust Control Training Class conducted or approved by the Control Officer with jurisdiction over the site and successfully complete, at least once every three years, such Basic Dust Control Training Class.

310 BASIC DUST CONTROL TRAINING CLASS:

310.1 At least once every three years, the site superintendent or other designated on-site representative of the permit holder, if present at a site that has more than one acre of disturbed surface area that is subject to a permit issued by the Control Officer requiring control of PM_{10} emissions from dust-generating operation, ~~shall~~ must successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

310.2 At least once every three years, water truck and water-pull drivers ~~shall~~ must successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

310.3 All persons having successfully completed training during the 2006 and 2007 calendar years ~~shall~~ will be deemed to have satisfied the requirement to successfully complete the Basic Dust Control Training Class, if the training that was completed was conducted or approved by the Control Officer. Completion of the Comprehensive Dust Control Training Class, as required in Section 309.2 of this rule, ~~shall~~ will satisfy the requirement of this section of this rule.

311 DUST CONTROL PLAN:

311.1 ~~The owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must submit, to the Control Officer, a Dust Control Plan that ~~describes all fugitive dust control measures to be implemented, in order to comply with Section 305.2, Section 306, Section 307, and Section 309 of this rule~~ includes, at a minimum, the following information:

a. Name(s), address(es), and phone numbers of person(s) responsible for the submittal and implementation of the Dust Control Plan and responsible for the dust-generating operations.

b. Fugitive dust control measures to be implements, in order to comply with Sections 304.2, 305, 306, and 307 of this rule.

c. Equipment associated with any process fugitive emissions to be implemented, in order to comply with Sections 301, 302, and 303 of this rule.

d. Documentation for soil moisture content, in order to comply with Section 313 of this rule.

e. Documentation for soil moisture analysis for each move notice regarding portable sources, as applicable and as described in Section 312 of this rule.

f. Fugitive dust control measures to be implemented for other affected operations not identified in this rule, as applicable, including, but not limited to, weed abatement by discing or blading and demolition activities.

g. A drawing, on 8½" x 11" paper, that shows all of the following information:

(1) Property boundaries and project site boundaries with linear dimensions,

(2) Location, linear dimensions, and specific surfaces treatment(s) and/or control measures utilized (i.e., install and maintain a paved surface or a cohesive hard surface) for staging areas, open storage piles, haul/access roads, parking areas, and permanent areas of the facility,

(3) Location and type of trackout control device, if applicable,

(4) Nearest public roads,

(5) North arrow, and

(6) Planned exit locations onto areas accessible to the public.

h. A process diagram that identifies the progression of material containing aggregate material less than 0.25 inch in diameter through the process and that includes all of the following information:

(1) Identification of all screen outlets of aggregate material less than 0.25 inch in diameter;

(2) Identification of all crusher outlets of aggregate material less than 0.25 inch in diameter;

(3) Identification of all stacker points of aggregate material less than 0.25 inch in diameter; and

(4) Identification of sample points for soil moisture tests required by Section 313 of this rule.

i. Installation date of trackout control device, if applicable.

~~311.2 The owner and/or operator of a facility shall submit, to the Control Officer, a Dust Control Plan that describes all equipment associated with any process fugitive emissions to be implemented, in order to comply with Section 301 and Section 305.2 of this rule and that includes all of the information in Section 311.2(a) and Section 311.2(b) of this rule, as applicable. If an alternative plan for conducting required soil moisture tests is approved by the Control Officer, included in a Dust Control Plan, and implemented by the owner and/or operator as allowed under Section 301.2(c)(6) of this rule, and if the Control Officer determines that such alternative plan included in a Dust Control Plan has been followed, yet fugitive dust emissions still exceed the standards of this rule, then the Control Officer shall issue a written notice to the owner and/or operator explaining such determination. The owner and/or operator shall make written revisions to the Dust Control Plan and shall submit such revised Dust Control Plan to the Control Officer within three working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon request, for good cause. During the time that such owner and/or operator rule is preparing revisions to the Dust Control Plan, such owner and/or operator must still comply with all~~

~~requirements of this rule. A complete Dust Control Plan shall at a minimum, contain all of the following information:~~

~~a. Documentation for the soil moisture content in order to comply with Section 301.2 of this rule.~~

~~b. Documentation of soil moisture analysis for each move notice regarding portable sources.~~

~~311.3 The Dust Control Plan shall, in addition, contain all the information described in Rule 310: Fugitive Dust From Dust-Generating Operations of these rules~~

~~311.4 All other criteria associated with the Dust Control Plan shall meet the criteria described in Rule 310: Fugitive Dust From Dust-Generating Operations of these rules.~~

~~311.5~~ **311.2** The Control Officer ~~shall~~ may approve, disapprove, or conditionally approve the Dust Control Plan, in accordance with the criteria used to approve, disapprove or conditionally approve a permit. Failure to comply with the provisions of an approved Dust Control Plan ~~shall~~ will be deemed a violation of this rule.

~~311.6 With each move notice regarding portable sources, the owner and/or operator of a facility shall submit, to the Control Officer, a Dust Control Plan that meets the requirements of this section of this rule.~~

311.3 An owner, operator, or person subject to this rule of a new facility must submit to the Control Officer a Dust Control Plan at the time such owner, operator, or person subject to this rule submits a permit application to the Control Officer.

311.4 The Control Officer may take final action on a Dust Control Plan within 30 calendar days of the filing of the complete Dust Control Plan.

311.5 The Control Officer may issue a written notice to the owner, operator, or person subject to this rule, if the Control Officer determines any of the following:

a. That a Dust Control Plan is incomplete;

b. That the Dust Control Plan is conditionally approved or approved; or

c. That an approved Dust Control Plan has been followed, yet fugitive dust emissions from any dust-generating operation still exceed the standards of this rule and, therefore, a revised Dust Control Plan is required.

311.6 The owner, operator, or person subject to this rule, who receives a notice as described in Section 311.5 of this rule, must make written revisions to the Dust Control Plan and must submit such revised Dust Control Plan to the Control Officer within three working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon written request, for good cause. During the time that such owner, operator, or person subject to this rule is preparing revisions to the Dust Control Plan, such owner, operator, or person must still comply with all requirements of this rule.

311.7 The owner, operator, or person subject to this rule must supply complete copies of the approved Dust Control Plan to all project contractors and subcontractors.

~~312 GENERAL REQUIREMENTS: An owner and/or operator of a facility shall be subject to the standards and/or requirements of this rule at all times. Failure to comply with any one of the following requirements shall constitute a violation.~~

~~312.1 Process emission limitations and controls described in Section 301, Section 302, and Section 303 of this rule.~~

~~312.2 Operation and maintenance (O&M) plan requirements for an emission control system and for dust control measures described in Section 305 of this rule.~~

~~312.3 Fugitive dust emission limitations described in Section 306 of this rule.~~

~~312.4 Fugitive dust control measures described in Section 307 of this rule.~~

~~312.5 Facility information sign requirement described in Section 308 of this rule.~~

~~312.6 Fugitive Dust Control Technician requirements described in Section 309 of this rule.~~

~~312.7 Basic Dust Control Training Class requirements described in Section 310.~~

~~312.8 Dust Control Plan requirements described in Section 311 of this rule.~~

~~312.9 Monitoring and recordkeeping requirements described in Section 500 of this rule.~~

~~312.10 Any other requirements of this rule.~~

312 PORTABLE SOURCES:

312.1 With each move notice regarding portable sources, the owner, operator, or person subject to this rule must submit, to the Control Officer, a Dust Control Plan that meets the requirements of Section 311 of this rule.

312.2 With each move notice regarding portable sources, the owner, operator, or person subject to this rule must submit, to the Control Officer, an O&M Plan that meets the requirements of Section 304 of this rule.

313 CRUSHING AND SCREENING – MOISTURE TESTING REQUIREMENTS:

313.1 **Baseline Moisture Testing Procedures:** An owner, operator, or person subject to this rule must conduct moisture tests as follows. An owner, operator, or person subject to this rule may request an alternative to these requirements. Such request must meet the requirements of Section 314 of this rule.

a. Moisture testing must be conducted on aggregate material less than 0.25 inch in diameter at the following sample points, unless an alternative sampling location is identified in the approved Dust Control Plan or a revision approved to the Dust Control Plan issued following submission of a written demonstration of the safety or feasibility issues affecting the sampling location:

(1) At the beginning of the process line from the feed entering the line;

(2) At a point between the primary shaker and the final stack point; and

(3) From each stacker point or material placed on the stacker conveyor.

b. Moisture testing must be conducted in accordance with the following requirements:

(1) Moisture testing must be conducted in accordance with the requirements of American Society For Testing And Materials (ASTM) C566-97 (2004) "Standard Test Method For Total Evaporable Moisture Content Of Aggregate By Drying" with the following exceptions:

(a) Smaller sample portions may be used provided the samples to be tested are no less than 1000 grams.

(b) Samples may be taken from the material dropping at a transfer point or during the free fall of materials from one belt to another.

(2) As an alternative to Section 313.1(b)(1) of this rule, an owner, operator, or person subject to this rule may use the Speedy Moisture Meter after receiving written approval from the Control Officer and after submitting to the Control Officer a written request that includes the following information:

(a) A description of the alternative testing equipment and tester limitations, including the range of the dial and the maintenance requirements;

(b) A correlation analysis conducted using 20 samples from the Speedy Moisture Meter and the results using ASTM C566-97 (2004). A separate correlation analysis must be done for each unit (serial number must be specified);

(c) A description of the calibration procedures that includes the following information:

(i) Calibration of each week Speedy Moisture Meter (serial number must be specified) on at least a biweekly basis against ASTM C566-97 (2004) as a standard;

(ii) Identification of at least three sampling points per process line to be used for calibration in either the O&M Plan required under Section 304.2 of this rule or the Dust Control Plan required under Section 311 of this rule. The three sampling points must be at the beginning of the process line, at a point between the primary shaker and the final stack point, and at the end of the process.

(d) An agreement to revert to ASTM C566-97 (2004) if the Speedy Moisture Meter results do not correlate with ASTM C566-97 (2004); and

(e) Modification of the site-specific O&M Plan or Dust Control Plan to include the information described in Sections 313.1(b)(2)(c) and (d) of this rule.

(3) Moisture testing may be conducted by an alternative to Sections 313.1(b)(1) and (2) of this rule after receiving written approval from the Control Officer and the Administrator and after submitting a written request that meets the requirements of Section 314 of this rule to the Control Officer.

313.2 Moisture Testing Frequency:

a. Within one hour after startup, an owner, operator, or person subject to this rule must conduct one soil moisture sampling set (total number of samples for a product line taken at all of the points identified in Section 313.1(a) of this

rule) in accordance with the test methods described in Section 313.1 of this rule.

b. If the operation proceeds into the nighttime during the nighttime (i.e., after sunset), an owner, operator, or person subject to this rule must conduct an additional soil moisture sampling set, in accordance with the test methods described in Section 313.1 of this rule.

313.3 Reduction In Moisture Testing Frequency:

a. If the owner, operator, or person subject to this rule demonstrates that at least one of the moisture contents listed in Sections 301.2(b)(1) of this rule is maintained for a minimum of 20 soil moisture sampling sets (total number of samples for a product line taken at all of the points identified in Section 313.1(a) of this rule), then soil moisture tests may be conducted weekly in accordance with the test methods described in this section of this rule.

b. If the owner, operator, or person subject to this rule fails to comply with the opacity limitations described in Sections 301.1, 305.1, or 305.2 of this rule and/or if two consecutive soil moisture tests result in a moisture level below at least one of the moisture contents listed in Sections 301.2(b)(1) of this rule, then the owner, operator, or person subject to this rule must resume the sampling frequency specified in Sections 313.2 of this rule, as applicable.

313.4 Additional Moisture Testing: An owner, operator, or person subject to this rule may be requested by the Control Officer to conduct additional moisture tests.

313.5 Moisture Testing Exemption: Moisture testing is not required on a crusher and/or screen plant that is enclosed and exhausted to a properly sized fabric filter baghouse.

314 ALTERNATIVE TECHNOLOGIES, CONTROLS, METHODS, OR MEASURES:

314.1 Any air pollution technologies, controls, methods, or measures installed or used must achieve the applicable standard(s) required by this rule, as determined by the corresponding test methods, as applicable, and must achieve other applicable standard(s) set forth in this rule.

314.2 Any person may submit a request to the Control Officer for the use of an alternative technology, control, method, or measure not otherwise specified in this rule. The request must be submitted in writing to the Control Officer and must meet all of the following requirements:

a. Be submitted as a separate/independent document (i.e., not included with a Dust Control Plan or an O&M Plan);

b. Identify the owner and/or operator;

c. Identify and describe the proposed alternative technology, control, method, or measure and the technology, control, method, or measure that the alternative would replace;

d. Include a detailed statement or report demonstrating that the proposed alternative technology, control, method, or measure would result in emission reductions that are equivalent to or exceed the emission reduction requirements otherwise specified in this rule;

e. Identify the rule section for which the respective alternative technology, control, method, or measure is being requested; and

f. Include a requested installation and implementation schedule.

314.3 The Control Officer will make an initial determination based on the information submitted whether or not the requested alternative technology, control, method, or measure is equivalent to or exceeds the respective regulatory requirements.

314.4 If the Control Officer determines, based on the information submitted, that the requested alternative technology, control, method, or measure is not at least equivalent to the respective regulatory requirements, the request will be denied. The applicant and the Administrator will be notified in writing of the decision.

314.5 If the Control Officer determines, based on the information submitted, that the alternative technology, control, method, or measure will be equivalent to or exceed the respective regulatory requirements, the Control Officer will forward such determination to the Administrator and request EPA approval.

314.6 Following an initial approval by the Control Officer and concurrence by the Administrator, the applicant will be allowed to begin using the proposed alternative technology, control, method, or measure for a specified period, during which a complete analysis of the performance will be conducted.

314.7 The applicant must conduct testing of the alternative technology, control, method, or measure as directed by the Control Officer.

314.8 A final determination concerning equivalency will be made based on testing conducted during the analysis period.

314.9 Notwithstanding the provisions of this section of this rule, no alternative technology, control, method, or measure otherwise subject to this rule may be installed or otherwise implemented to meet the requirements of this rule without prior written approval from the Control Officer and concurrence by the Administrator.

314.10 Once an alternative technology, control, method, or measure has been approved by both the Control Officer and the Administrator, any person subject to this rule can avail themselves of the alternative that has been approved. Such person must make written revisions to the O&M Plan and/or to the Dust Control Plan and must submit such revised plan(s) to the Control Officer.

SECTION 400 – ADMINISTRATIVE REQUIREMENTS

401 COMPLIANCE SCHEDULE FOR NEWLY AMENDED PROVISIONS OF THIS RULE: The newly amended provisions of this rule ~~shall~~ become effective upon adoption of this rule except as ~~follows:~~ provided in Section 402 of this rule.

~~401.1 Process Controls: Process controls required by Section 301.2 of this rule shall be implemented by July 12, 2008.~~

~~401.2 O&M Plan:~~

~~a. The owner and/or operator of an existing facility shall revise/update all O&M Plans by June 12, 2008.~~

~~b. The Control Officer shall take final action on an O&M Plan revision/update to address the newly amended provisions of this rule within 30 calendar days of the filing of the complete O&M Plan revision/update. The Control Officer shall notify the applicant in writing of his approval or denial.~~

~~401.3 Dust Control Plan:~~

~~a. The owner and/or operator of an existing facility shall revise/update all Dust Control Plans by June 12, 2008.~~

~~b. The owner and/or operator of a new facility shall submit to the Control Officer a Dust Control Plan at the time such owner and/or operator submits a permit application to the Control Officer.~~

~~c. The Control Officer shall take final action on a Dust Control Plan revision/ update to address the newly amended provisions of this rule within 30 calendar days of the filing of the complete Dust Control Plan revision/update.~~

~~The Control Officer shall notify the applicant in writing of his approval or denial.~~

~~401.4 Basic Dust Control Training Class: No later than December 31, 2008, a site superintendent or other designated on-site representative of the permit holder, water truck drivers, and water pull drivers shall have successfully completed the Basic Dust Control Training Class, as described in Section 310 of this rule.~~

~~401.5 Comprehensive Dust Control Training Class: No later than June 30, 2008, a Fugitive Dust Control Technician shall have successfully completed the Comprehensive Dust Control Training Class, as described in Section 309 of this rule.~~

~~401.6 Rumble Grates: As of June 12, 2008, new rumble grates or existing rumble grates that are moved or modified must meet the requirements described in Sections 307.6(a)(1)(c) or 307.6(b)(1)(b) of this rule.~~

402 COMPLIANCE SCHEDULE FOR RUMBLE GRATES: As of June 12, 2008, new rumble grates or existing rumble grates that are moved must meet the requirements described in Sections 307.6(a)(1)(a)(iii) or 307.6(a)(2)(a)(ii) of this rule. If a rumble grate installed prior to June 12, 2008, as identified by an installation date in the Dust Control Plan, is modified (e.g., riser bars are raised or lowered), such rumble grate is not subject to the requirements in Sections 307.6(a)(1)(a)(iii) or 307.6(a)(2)(a)(ii) of this rule.

SECTION 500 – MONITORING AND RECORDS

501 MONITORING, RECORDKEEPING AND REPORTING: ~~Any owner and/or operator of a facility~~ Any owner, operator, or person subject to this rule ~~shall~~ must comply with the following requirements. Records ~~shall~~ must be retained for five years. ~~and shall be made available to the Control Officer upon request.~~

501.1 Operational information required by this rule ~~shall~~ must be kept on-site in written or electronic format and in a complete and consistent manner. ~~on-site and be made available without delay to the Control Officer upon request.~~ Hard or electronic copies (whichever is requested) must be made available to the Control Officer upon request.

501.2 Records of the following process and operational information, as applicable, are required:

a. General Data: Daily records ~~shall~~ must be kept for all days that a facility is actively operating. Records ~~shall~~ must include all of the following:

(1) Hours of operation;

(2) Type of batch operation (wet, dry, central);

(3) Throughput per day of basic ~~raw~~ materials including sand, aggregate, cement (tons/day);

(4) ~~Volume~~ Amount of concrete produced per day (cubic yards/day) and volume of asphaltic concrete produced per day (tons/day);

(5) ~~Volume~~ Amount of aggregate mined per day (tons per day); ~~and~~

(6) Amount of each basic ~~raw~~ material including sand, aggregate, cement, fly ash delivered per day (tons/day);

(7) For facilities that assert to be below the thresholds in ~~Section 307.6(a) and Section 307.6(e)(1)~~ Sections 307.6(a)(1) and 307.6(c)(1) of this rule, number of ~~aggregate trucks, mixer trucks, and/or batch trucks~~ motor vehicles exiting the facility;

(8) Results of visible emissions observations at the location of fugitive dust emissions from all crushers including, but not limited to, the inlet and outlet of all crushers, and opacity observations, if necessary;

(9) Operating condition of process controls; and

(10) Kind and amount of fuel consumed in dryers, asphalt heaters, generators, engines, and operating process equipment.

~~b. Additional Data For Dry Mix Concrete Plants and/or Bagging Operations: Records shall include all of the following:~~

~~(1) Number of bags of dry mix produced;~~

~~(2) Weight (size) of bags of dry mix produced;~~

~~(3) Kind and amount of fuel consumed in dryer (cubic feet/day or gallons/day); and~~

~~(4) Kind and amount of any back-up fuel, if any.~~

~~c.~~ **b. Control And Monitoring Device Data:** Records ~~shall~~ must include all of the following:

(1) For a fabric filter baghouse:

(a) Date of inspection;

(b) Date and designation of bag replacement;

(c) Date of service or maintenance related activities; and

(d) Time, date, and cause of fabric filter baghouse failure and/or down time~~, if applicable~~.

(2) For a scrubber:

(a) Date of service or maintenance related activities;

(b) Liquid flow rate;

(c) Other operating parameters that need to be monitored to assure that the scrubber is functioning properly and operating within design parameters; and

(d) Time, date, and cause of scrubber failure and/or down time, if applicable.

(3) For watering systems ~~(e.g., spray bars or an equivalent control)~~:

(a) Date, time, and location of each moisture sampling point; ~~and~~

(b) Results of moisture testing; and

(c) Corrective actions taken, if necessary;

501.3 O&M Plan Records: ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must maintain all of the following records in accordance with ~~an approved~~ a complete, site-specific O&M Plan:

a. For Any ECS~~, Any Other Emission Processing Equipment,~~ And Any ECS Monitoring Devices That Are Used ~~Pursuant to~~ Under This Rule Or ~~to~~ Under An Air Pollution Control Permit:

(1) Periods of time that an approved ECS is operating to comply with this rule;

(2) Periods of time that an approved ECS is not operating;

(3) Flow rates;

(4) Pressure drops;

(5) Other conditions necessary to determine if the approved ECS is functioning properly;

(6) Results of visual inspections; and

(7) Correction action taken, if necessary.

b. For Equipment Associated With Any Process Fugitive Emissions And Any Fugitive Dust Control Measures That Are Implemented To Comply With This Rule Or To An Air Pollution Control Permit:

(1) A written record of self-inspection on each day that ~~a facility is actively operating~~ any activity capable of generating fugitive dust is conducted. Self-inspection records ~~shall~~ must include daily inspections or be in compliance with O&M Plan requirements, whichever is more frequent;

(2) Maintenance of street sweepers; and

(3) Maintenance of trackout control devices, gravel pads, wheel washers, and truck washers.

501.4 Dust Control Plan Records: ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must compile, maintain, and retain a written record of self-inspection of all fugitive dust control measures implemented, in order to comply with the Dust Control Plan, on each day that ~~the facility is actively operating~~ any activity capable of generating fugitive dust is conducted. ~~Self-inspection records shall include information as described in Rule 310: Fugitive Dust From Dust-Generating Operations of these rules.~~ Self-inspection records must include daily inspections for crusted or damp soil, trackout conditions and clean-up measures, daily water usage for dust control measures, and dust suppressant application. Such written records must also include the following information:

a. Method, frequency, and intensity of application or implementation of the control measures;

b. Method, frequency, and amount of water application to the site;

c. Street sweeping frequency;

d. Types of surface treatments applied to and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps;

e. Types and results of test methods conducted;

f. If contingency control measures are implemented, actual application or implementation of contingency control measures and why contingency control measures were implemented;

g. List of subcontractors' names and registration numbers, if applicable, updated when changes are made; and

h. Names of employee(s) who successfully completed dust control training class(es) required by Sections 309 and 310 of this rule, date of the class(es) that such employee(s) successfully completed, and name of the agency/representative who conducted such class(es).

501.5 Basic Dust Control Training Class Records: ~~An owner and/or operator of a facility shall~~ An owner, operator, or person subject to this rule must compile, maintain, and retain a written record for each employee subject to Section 310 of this rule. Such written records ~~shall~~ must include the name of the employee, the date of the Basic Dust Control Training Class that such employee successfully completed, and the name of the agency/representative who conducted such class.

502 COMPLIANCE DETERMINATION FOR PROCESS EMISSIONS AND CONTROLS: Compliance determinations for activities regulated by Sections 301 (excluding Section 301.1(e)), 302, and/or 303 of this rule ~~shall~~ must be made according to the test methods for those subparts of 40 CFR Part 60, Appendix A, ~~adopted as of July 1, 2007,~~ as listed below. Such subparts of 40 CFR Part 60, Appendix A~~, adopted as of July 1, 2007~~ and 40 CFR Part 51, Appendix M~~, adopted as of July 1, 2007,~~ are ~~adopted~~ incorporated by reference as indicated. The EPA test methods as they exist in the CFR, as listed below, are incorporated by reference in Appendix G of these rules. This ~~adoption~~ incorporation by reference includes no future editions or amendments. Copies of test methods referenced in Section 502 of this rule are available at Maricopa County Air Quality Department, 1001 North Central Avenue, Phoenix, Arizona, 85004~~-1942~~. When more than one test method is permitted for a compliance determination, then an exceedance of the limits established in this rule, determined by any of the applicable test methods, constitutes a violation of this rule.

502.1 Grain Loading: Particulate matter ~~and associated moisture content shall~~ concentration must be determined using the applicable EPA Reference ~~Methods 1 through 5~~ Method 5, 40 CFR Part 60, Appendix A.

502.2 Opacity Observations: Opacity observations to measure visible emissions from activities regulated by Sections 301 (excluding Section 301.1(e)), 302, and/or 303 of this rule ~~shall~~ must be conducted in accordance with the techniques specified in EPA Reference Method 203B (Visual Determination Of Opacity Of Emissions From Stationary Sources For Time-Exception Regulations), 40 CFR Part 51, Appendix M~~, adopted as of July 1, 2007~~. The EPA test methods as they exist in the CFR, as listed below, are incorporated by reference in Appendix G of these rules. Emissions ~~shall~~ must not exceed the applicable opacity standards described in Section 301 (excluding Section 301.1(e)), Section 302, and Section 303 of this rule for a period aggregating more than three minutes in any 60-minute period.

~~502.3 Soil Moisture Testing for Watering Systems:~~

~~a. If twice daily moisture sampling is required, such sampling shall be conducted within one hour of startup and again at 3 pm or within one hour prior to daily shutdown but no less frequently than once every 8-hour period.~~

~~b. If daily moisture sampling is required, such sampling shall be conducted within one hour after startup.~~

~~c. Moisture testing shall be conducted on all crushers, shaker screens, and material transfer points (excluding wet plants). Unless prior approval from the Control Officer is granted, moisture testing shall be conducted at the following sample points:~~

~~(1) Within 10 feet from the point where crushed aggregate material is placed on the discharge belt conveyor from the crusher;~~

~~(2) Within 10 feet from the point where screened aggregate material is placed on the conveyor; and~~

~~(3) From each stacker point.~~

~~d. The number of sampling points identified in Section 502.3(c)(1) through (3) of this rule may be reduced, if the owner and/or operator of a facility complies with all of the following requirements:~~

~~(1) A 5% minimum moisture content, as demonstrated by a soil moisture test conducted in accordance with the test methods described in Section 502 of this rule, is maintained at the primary crusher;~~

~~(2) A minimum of 20 soil moisture samples are taken at all of the points identified in Section 502.3(c) of this rule;~~

~~(3) A 4% minimum moisture content, as demonstrated by a soil moisture test conducted in accordance with the test methods described in Section 502 of this rule and as demonstrated by the soil moisture samples required by Section 502.3(d)(2) of this rule, is maintained at all of the points identified in Section 502.3(c) of this rule; and~~

~~(4) A written request is submitted to and approved by the Control Officer to revise/modify the Dust Control Plan to reflect the change in moisture content and the reduced number of sampling points according to the demonstration made by the owner and/or operator of a facility according to this section of this rule.~~

~~e. Moisture testing is not required on a crusher and/or screen plant equipped with a baghouse or fabric filter, electrostatic precipitator, or wet scrubber, excluding wet spray bars, for control of particulate matter.~~

~~f. Moisture testing shall include all aggregate material less than 0.25 inch in diameter.~~

~~g. Moisture testing shall be conducted in accordance with the requirements of American Society For Testing And Materials C566-97 (2004) "Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying" with the exception that smaller sample portions may be used.~~

503 COMPLIANCE DETERMINATION FOR EMISSIONS AND CONTROLS THAT ARE REGULATED BY SECTION 301.1(E)~~, SECTION 304,~~ AND/OR ~~SECTION 306~~ SECTION 305 OF THIS RULE: To determine compliance with the fugitive dust emission limitations described in Section 301.1(e)~~, Section 304,~~ and/or ~~Section 306~~ Section 305 of this rule, opacity observations ~~shall~~ must be conducted in accordance with the techniques specified in Appendix C-Fugitive Dust Test Methods of these rules.

504 COMPLIANCE DETERMINATION FOR SOIL MOISTURE CONTENT ~~AND SOIL COMPACTION CHARACTERISTICS~~ TEST ~~METHODS~~ METHOD ~~ADOPTED~~ INCORPORATED BY REFERENCE: American Society For Testing And Materials (ASTM) C566-97 (2004) "Standard Test Method For Total Evaporable Moisture Content Of Aggregate By Drying".

~~504.1 ASTM Method D2216-05 ("Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass"), 2005 edition.~~

~~504.2 ASTM Method D1557-02e1 ("Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 kN-m/m^3))"), 2002 edition.~~

505 COMPLIANCE DETERMINATION FOR STABILIZATION STANDARDS TEST METHODS ~~ADOPTED~~ **INCORPORATED BY REFERENCE:** The stabilization standards described in ~~Section 306.5~~ Section 306 of this rule ~~shall~~ must be determined by using the following test methods in accordance with Appendix C-Fugitive Dust Test Methods of these rules:

505.1 Appendix C, Section 2.1.2 (Silt Content Test Method) of these rules to estimate the silt content of the trafficked parts of unpaved roads (not to exceed 6%) and unpaved parking lots (not to exceed 8%).

505.2 Appendix C, Section 2.3 (Test Methods for Stabilization-Soil Crust Determination (The Drop Ball Test)) of these rules for a soil crust.

505.3 Appendix C, Section 2.4 (Test Methods for Stabilization-Determination of Threshold Friction Velocity (TFV) (Sieving Field Procedure)) of these rules for threshold friction velocity (TFV) corrected for non-erodible elements of 100 cm/second or higher.

505.4 Appendix C, Section 2.5 (Test Methods for Stabilization-Determination of Flat Vegetative Cover) of these rules for flat vegetation cover (i.e., attached (rooted) vegetation or unattached vegetative debris lying on the surface with a predominant horizontal orientation that is not subject to movement by wind) that is equal to at least 50%.

505.5 Appendix C, Section 2.6 (Test Methods for Stabilization-Determination of Standing Vegetative Cover) of these rules for standing vegetation cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%.

505.6 Appendix C, Section 2.6 (Test Methods for Stabilization-Determination of Standing Vegetative Cover) of these rules for standing vegetation cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 10% and where the threshold friction velocity is equal to or greater than 43 cm/second when corrected for non-erodible elements.

505.7 Appendix C, Section 2.7 (Test Methods for Stabilization-Rock Test Method) of these rules for a percent cover that is equal to or greater than 10%, for non-erodible elements.

505.8 An alternative test method approved in writing by the Control Officer and the Administrator. Such alternative test method must meet the requirements in Section 314 of this rule.

506 CERTIFIED STREET SWEEPING EQUIPMENT LIST ~~ADOPTED~~ **INCORPORATED BY REFERENCE:** The list of street sweeping equipment (as of July 9, 2004) that has met the South Coast Air Quality Management Rule 1186 certification standards is found in support documents for the South Coast Air Quality Management District Regulation XI-Source Specific Standards, Rule 1186-PM_{10} Emissions From Paved And Unpaved Roads And Livestock Operations and is ~~adopted~~ incorporated by reference. A copy of the list of certified street sweeping equipment can also be obtained at Maricopa County Air Quality Department, 1001 North Central Avenue, Phoenix, Arizona, 85004.