

**MARICOPA COUNTY AIR QUALITY DEPARTMENT**

**Engineering and Permitting Division**

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**GENERAL PERMIT TO OPERATE AND/OR CONSTRUCT**

*As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes  
and Maricopa County Air Pollution Control Regulations*

**for**

**SURFACE COATING AND/OR ABRASIVE BLASTING OPERATION**

*This air quality permit to operate and/or construct does not relieve the applicant of the  
responsibility of meeting all air pollution regulations.*

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

**EXPIRATION DATE:** 06/14/25

**REVISION DATE:** 06/14/20

**ISSUANCE DATE:** 06/14/20

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Any cited regulatory paragraphs or section numbers refer to the version of the rules and regulations that were in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise. However, in the event the rules and regulations are amended during the term of this Permit, the amended rules and regulations shall apply to this Permit. Whenever the term, Control Officer, is used in this Permit it shall be interpreted to mean, Control Officer or designated representative. Where the term "Rule" appears, it shall be construed to mean "Maricopa County Air Pollution Control Regulations" unless otherwise noted.

## **SPECIFIC CONDITIONS**

### **SITE-WIDE REQUIREMENTS**

#### **1. Material Limitation:**

- a. The Permittee shall not allow the total combined usage of liquid coatings, diluents, and cleaning solvents (including those used for surface coating, wipe cleaning, and operations subject to County Rule 331) to exceed 3,750 gallons per any 12 consecutive-month period. For the purposes of this Permit Condition, thermal spray coatings are not considered liquid coatings.
- b. The Permittee may use up to 25.0 tons of powder and thermal spray coating per 12 consecutive-month period provided no liquid spray coating operations are performed by the Permittee during the same 12 consecutive-month period.
- c. Facilities that apply VOC-containing surface coatings subject to MCAQD Rule 348 (Aerospace Coating Operations), Rule 345 (Vehicle and Mobile Equipment Coating), Rule 342 (Coating Wood Furniture and Fixtures) or Rule 346 (Coating Wood Millwork) are not eligible for coverage under this General Permit.
- d. The Permittee shall limit the use of abrasive blasting material to no more than 525 tons (1,050,000 pounds) per any 12-consecutive month period.

[SIP Rule 220 §302.2] [Rule 241 §§304, 305, 308]

#### **2. Opacity:**

- a. Except as specified in Permit Condition 38.d, no person shall discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity for a period aggregating more than three minutes in any 60-minute period.
- b. If any non-compliant visible emissions (excluding water vapor) are detected or reported, the Permittee shall determine the cause and/or the source of emissions. The Permittee shall then take immediate corrective action(s) and if necessary, shut down the applicable equipment. If visible emissions (excluding water vapor) exceed the above opacity standards subsequent to implementing corrective action(s), the Permittee shall shut down the applicable equipment and institute repairs or changes necessary to ensure compliance prior to resuming operations.
- c. Compliance with the opacity requirement shall be determined by observations of visible emissions conducted in accordance with EPA Reference Method 9 as modified by EPA Reference Method 203B.

[SIP Rule 300 §301]

[SIP Rule 220 §302.2]

[SIP Rule 300 §501]

### **SURFACE COATING OPERATIONS**

#### **3. Definitions:**

For the Purpose of this Permit Section, the following definitions apply:

- a. *Coil Coating*: Any coating applied to the surface(s) of flat metal sheets or strips that are formed into rolls or coils not used to make cans.
- b. *Extreme Performance Coating*: A coating used on a surface where the coated surface in its intended use is at temperatures consistently in excess of 250°F (121°C).

- c. *Film Coating*: Any coating applied in a web coating process on film substrate other than paper or fabric, including, but not limited to, typewriter ribbons, photographic film, magnetic tape and metal foil gift wrap.
- d. *Flexible Plastic Part or Product*: A plastic part or product designed to withstand significant deformation without damaging it for its intended use. Not included are flexible plastic parts that are found on a can, coil, metal furniture, or large appliance, or that are already a part of an aerospace component, highway vehicle, mobile equipment, architectural building or structure, or a previously coated marine-vessel.
- e. *Heat Sensitive Material*: Materials which cannot consistently be exposed to temperatures greater than 203°F (95°C) without materially affecting desired function, performance, or other characteristics.
- f. *High-Volume Low Pressure (HVLP) Application*: A type of coating spray system in which the final air pressure does not exceed 10 psig (67 kilopascals) and which depends on relatively large volumes of air to atomize the coating.
- g. *Other Metal Parts And Products*: Any metal part or product, excluding the following items that are made of metal: can, coil, furniture, large appliance, aerospace component, metal foil, metal textile fabric, semiconductor metal, highway vehicle, mobile equipment, an architectural building or structure, a previously coated marine-vessel.
- h. *Plastic*: Any solid, synthetic: resin, polymer, or elastomer, except rubber. For the purposes of this Permit Section, plastic film is considered film; fabric and paper made of polymeric plastic fibers are considered fabric and paper, respectively.
- i. *Repair Coating*: A coating or coating operation used to recoat the portion of a completed finish that suffered post-production damage at the facility where the finish was applied.
- j. *Small Surface-Coating Source*: A facility from which the total VOC emissions for all surface coating operations that are subject to County Rule 336 without, or prior to, any emission control, is less than 2.0 tons (1814 kg) per year.
- k. *Touch Up Coating*: A coating used to cover minor coating imperfections after the main coating operation. This includes touch-up coating that accompanies the purchase of an object already coated with that coating.
- l. VOC Content Minus Exempt Compounds (i.e.: VOC Content Minus Exempt Evaporating Components; EPA Method 24 VOC Content):

$$\text{VOC Content Minus Exempt Compounds} = \frac{W_s - W_w - W_{es}}{V_m - V_w - V_{es}}$$

Using consistently either English or metric measures in the calculations, where:

- $W_s$  = weight of all volatile material in pounds (or grams), including VOC, water, non-precursor organic compounds and dissolved vapors
- $W_w$  = weight of water in pounds (or grams)
- $W_{es}$  = weight of all non-precursor compounds in pounds (or grams)
- $V_m$  = volume of total material in gallons (or liters)
- $V_w$  = volume of water in gallons (or liters)
- $V_{es}$  = volume of all non-precursor compounds in gallons (or liters)

- m. VOC Content of Material (Material VOC-Content):

$$\text{VOC Content of Material} = \frac{W_s - W_w - W_{es}}{V_m}$$

Using consistently either English or metric measures in the calculations, where the terms have the same meaning as those presented in Subsection [1] above.

[SIP Rule 100 §200][SIP Rule 336 §200]

#### 4. Applicability:

- a. Surface-coating activities regulated under this Permit Section include, but are not limited to, the application of coating, coating preparation/mixing at the facility applying the coating, and the cleanup of coating application equipment.

[SIP Rule 336 §102.1]

- b. The Conditions of this Permit Section are not applicable to coatings having a VOC content, minus exempt compounds, of less than 0.15 lb VOC/gal (18g/L) nor to solvents having a VOC content of material less than 0.15 lb VOC/gal.

[SIP Rule 336 §102.3]

#### 5. Material Limitations:

- a. The Permittee shall not apply any surface coating, including any VOC-containing materials added to the original coating supplied by the manufacturer, which have a VOC content, minus exempt compounds, in excess of the following, except as allowed by Permit Condition 8.

[Rule 336 §301.1][SIP Rule 336 §301.1]

**Table 1: Coating Limits for Metal Parts and Products**

Coating Category	Air Dried		Baked (above 200°F)	
	g VOC/l	lb VOC/gal	g VOC/l	lb VOC/gal
Camouflage	420	3.5	420	3.5
Drum Coating, New, Exterior	340	2.8	340	2.8
Drum Coating, New, Interior	420	3.5	420	3.5
Drum Coating, Reconditioned, Exterior	420	3.5	420	3.5
Drum Coating, Reconditioned, Interior	500	4.2	500	4.2
Electric-Insulating Varnish	420	3.5	420	3.5
Etching Filler	420	3.5	420	3.5
Extreme High-Gloss	420	3.5	360	3.0
Extreme Performance	420	3.5	360	3.0
Heat-Resistant	420	3.5	360	3.0
High Performance Architectural	740	6.2	740	6.2
High Temperature	420	3.5	420	3.5
Metallic	420	3.5	420	3.5
Military Specification	340	2.8	280	2.3
Mold-Seal Coating	420	3.5	420	3.5
Multi-Component (not listed elsewhere in this table)	340	2.8	280	2.3
One-Component (not listed elsewhere in this table)	340	2.8	280	2.3
Other Metal Parts and Products: Includes Non-Adhesive Coating, Adhesive, Adhesive Primer, Beaded Sealant, and Caulking	420	3.5	360	3.0
Pan Backing	420	3.5	420	3.5
Prefabricated Architectural Multi-Component	420	3.5	280	2.3
Prefabricated Architectural One-Component	420	3.5	280	2.3
Pretreatment Coating	420	3.5	420	3.5
Repair	420	3.5	360	3.0
Silicone Release	420	3.5	420	3.5
Solar-Absorbent	420	3.5	360	3.0
Strippable Booth Coating	240	2.0	–	–
Touch-up	420	3.5	360	3.0
Vacuum Metalizing	420	3.5	420	3.5

**Table 2: Coating Limits for Cans and Coils**

Coating Category	g VOC/l	lb VOC/gal
Strippable Booth Coating (applies to both can and coil coating categories)	240	2.0
Can Coating		
Can Printing Ink	300	2.5
End Sealing Compound	440	3.7
Sheet Basecoat (Exterior and Interior) and Overvarnish	340	2.8
Three-Piece Can Side-Seam Spray	660	5.5
Two and Three-Piece Can Interior Body Spray	510	4.2
Two-Piece Can Exterior (Basecoat and Overvarnish)	340	2.8
Two-Piece Can Exterior End (Spray or Roll Coat)	510	4.2
Coil Coating	310	2.6

**Table 3: Coating Limits for Plastic Parts and Products**

Coating Category	g VOC/l	lb VOC/gal
Electric Dissipating Coatings and Shock-Free Coatings	800	6.7
Extreme Performance	420 (2-pack coatings)	3.5 (2-pack coatings)
Flexible Plastic Parts and Products		
Basecoat	540	4.5
Clearcoat	540	4.5
Color Topcoat	450	3.8
Primer	490	4.1
Metallic	420	3.5
Military Specification	340 (1 pack) 420 (2 pack)	2.8 (1 pack) 3.5 (2 pack)
Mold-Seal Coating	760	6.3
Multi-Colored Coating	680	5.7
Multi-Component (not listed elsewhere in this table)	420	3.5
One-Component (not listed elsewhere in this table)	280	2.3
Optical Coatings	800	6.7
Plastic Parts and Products that are Not Defined as Flexible	420	3.5
Strippable Booth Coating	240	2.0
Vacuum Metalizing	800	6.7

**Table 4: Coating Limits for Business Machines**

Coating Category	g VOC/l	lb VOC/gal
Fog Coat	260	2.2
Primer	350	2.9
Repair	350	2.9
Strippable Booth Coating	240	2.0
Texture Coating	350	2.9
Topcoat	350	2.9
Touch-up	350	2.9

**Table 5: Coating Limits for Metal Furniture and Large Appliances**

Coating Category	Air Dried		Baked (above 200°F)	
	g VOC/l	lb VOC/gal	g VOC/l	lb VOC/gal
Extreme High Gloss	340	2.8	360	3.0
Extreme Performance	420	3.5	360	3.0
Heat-Resistant	420	3.5	360	3.0
Metallic	420	3.5	420	3.5
Multi-Component (not listed elsewhere in this table)	340	2.8	275	2.3
One-Component (not listed elsewhere in this table)	275	2.3	275	2.3



**Table 5: Coating Limits for Metal Furniture and Large Appliances**

Coating Category	Air Dried		Baked (above 200°F)	
	g VOC/l	lb VOC/gal	g VOC/l	lb VOC/gal
Pretreatment Coating	420	3.5	420	3.5
Refrigerated Glass Door Coating	480	4.0	–	–
Solar-Absorbent	420	3.5	360	3.0
Strippable Booth Coating	240	2.0	–	–

**Table 6: Coating Limits for Paper, Fabric, Film, Foil, and Vinyl**

Coating Category	kg VOC/kg Coating (lb VOC/lb solids)	kg VOC/kg Solids (lb VOC/lb solids)	g VOC/l	lb VOC/gal
Fabric	–	–	350	2.9
Paper, Film, and Foil Surface Coating (not including pressure sensitive tape and label)	0.08	0.40	–	–
Pressure Sensitive Tape and Label Surface Coating	0.067	0.20	–	–
Strippable Booth Coating	–	–	240	2.0
Vinyl	–	–	450	3.8

**Table 7: Coating Limits for Pleasure Craft**

Coating Category	g VOC/l	lbs VOC/gal
All Other Pleasure Craft Surface Coatings for Metal or Plastic	420	3.5
Aluminum Substrate Antifoulant Coating	560	4.7
Extreme High Gloss Topcoat	600	5.2
Finish Primer/Surfacer	600	5.2
High Build Primer/Surfacer	340	2.8
High Gloss Topcoat	420	3.5
Other Substrate Antifoulant Coating	400	3.4
Pretreatment Wash Primer	780	6.5
Strippable Booth Coating	240	2.0

## 6. Application Methods for Surface Coatings:

- a. The Permittee shall employ one of the following for all applications of surface coating containing more than 2 pounds of VOC per gallon (240 g/liter) minus exempt compounds, except as permitted in Subsection [b] of this Permit Condition:
  - i. HVLP spray gun;
  - ii. Electrostatic system;
  - iii. A system that atomizes principally by hydraulic pressure, including “airless” and “air assisted airless”;
  - iv. Hand application methods, including but not limited to:
    - 1) Flow Coat;
    - 2) Roll Coat;
    - 3) Dip-Coating.
  - v. An Alternative Application Method: Any method approved by the Administrator as HVLP-equivalent.

[Rule 336 §302.1][SIP Rule 336 §302]

- b. The Permittee may employ spray guns otherwise prohibited by Subsection [a] of this Permit Condition under any of the following limited conditions:
- i. For applications of surface coating materials containing less than or equal to 2 pounds of VOC per gallon (240 g/L), minus exempt compounds.
  - ii. For applications of surface coating materials containing more than or equal to 2 pounds of VOC per gallon (240 g/L), minus exempt compounds:
    - 1) If coating the inside of pipes and tubes with a wand-style applicator.
    - 2) If using an airbrush or other small gun that has a reservoir capacity not exceeding 250 cc (8.8 fl. oz.) and is used solely for detailing, lettering, touch-up, and/or repair.
- [Rule 336 §302.2][SIP Rule 336 §305.7]

**7. Cleanup of Application Equipment:**

The Permittee shall comply with the following when using VOC-containing material to clean application equipment:

- a. Clean spray-guns without spraying or atomizing a solvent cleaner with the gun.
- b. Spray-Gun Cleaning Machine: The Permittee shall use a spray-gun cleaning machine that complies with the following requirements unless the Permittee complies with the manual spray-gun cleaning requirements in Subsection [c] of this Permit Condition.
  - i. Spray-Gun Cleaning Machine-General Requirements: The spray-gun cleaning machine shall meet all of the following requirements:
    - 1) Be designed to clean spray-guns.
    - 2) Have at least one pump that drives solvent cleaner through and over the spray-gun.
    - 3) Have a basin which permits containment of the solvent cleaner.
    - 4) Be kept in proper repair and free from liquid leaks.
    - 5) Be fitted with a cover.
    - 6) Be located on-site where the spray application occurs; and
    - 7) Be operated and maintained according to manufacturer's or distributor's instructions.
    - 8) Porous Material:
      - a) Do not clean nor use porous or absorbent materials to clean parts or products in a cleaning machine. For the purpose of this Permit Condition, porous or absorbent materials include, but are not limited to, cloth, leather, wood, and rope.
      - b) Do not place an object with a sealed wood handle, including a brush, in or on a cleaning machine.
      - c) Do not place porous or absorbent materials, including, but not limited to, cloth, leather, wood, and rope in or on a cleaning machine.
  - ii. Automatic Spray-Gun Cleaning Machine: An automatic spray-gun cleaning machine shall have a self-covering or enclosing cover feature that in the cover's closed position allows no gaps exceeding 1/8 inch (3 mm) between the cover and the cabinet. This self-enclosing feature shall be maintained and consistently cover or enclose to these gap limits.
  - iii. Non-Automatic Remote Reservoir Cleaning Machine: A non-automatic remote reservoir cleaning machine shall meet all of the following requirements:
    - 1) Drain solvent cleaner from the sink/work-space into a remote reservoir when work-space is not in use; and

- 2) Machine reservoir shall not have cumulative total openings, including the drain opening(s) exceeding two square inches in area. The base of the sink/work-space may function as the reservoir's top surface, as long as the fit/seal between sink base and reservoir container allows the reservoir to meet the two square inch opening limit.

[Rule 336 §303.1][Locally Enforceable Only]

- c. Manual Spray-Gun Cleaning Requirements: The Permittee shall comply with the following when manually cleaning spray-guns:
  - i. Disassembled spray-guns shall be cleaned by non-mechanical, hand-held method of application of cleaners; and
  - ii. If disassembled spray-guns are soaked, they shall remain covered at all times, except when the application equipment is being handled in the container or transferred into or out of the container.

[Rule 336 §303.2][SIP Rule 336 §303.1.a]

## 8. Exemptions:

- a. The following materials are exempt from Permit Conditions 5, 6, and 7:
  - i. Leak-Preventing Materials: Sealants, adhesives, caulking, and similar materials used on the following substrates for the primary purpose of leak prevention:
    - 1) Non-metallic substrates; and
    - 2) Substrates made post manufacture, such as, but not limited to, old joints and seals on pipe and valve assemblies.

[Rule 336 §103.1.a][SIP Rule 336 §305.2.a]
  - ii. Certain Joint Fillers: Caulking and beaded sealants used to fill gaps or to fill joints between surfaces except those used in manufacturing other metal parts and products or in the manufacturing of cans.

[Rule 336 §103.1.b][SIP Rule 336 §305.2.c]
- b. The following materials are not subject to the VOC limits in Permit Condition 5:
  - i. Extreme performance coatings when used under the following conditions:
    - 1) Used on internal combustion engine components that are normally above 250°F (121°C) during use; or
    - 2) Used at temperatures above 250°F (121°C) on items that are both included under the North American Industry Classifications System (NAICS) codes 334210, 334220, 334290, 334416, 334417, 334418, 334419, 334310 or 336419 and are electronic products in space vehicles and/or are communications equipment.

[Rule 336 §103.2][SIP Rule 336 §305.2.d]
  - ii. The following types of plastic parts coatings:
    - 1) Touch-up and repair coatings.
    - 2) Stencil coatings applied on clear or transparent substrates.
    - 3) Clear or translucent coatings.
    - 4) Coatings applied at a paint manufacturing facility while conducting performance tests on the coatings.
    - 5) Non-compliant coatings: The Permittee is permitted to use up to 50 gal/yr of an individual non-compliant coating, not exceeding 200 gal/yr total usage of all non-compliant coatings, until such time that a compliant substitute exists.
    - 6) Reflective coatings applied to highway cones.
    - 7) Mask coatings that are less than 0.5 millimeter thick (dried) and the area coated is less than 25 square inches.

- 8) Electromagnetic Interference (EMI)/ Radio-Frequency Interference (RFI) shielding coatings.
- 9) Heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices, provided that the total usage of all such coatings does not exceed 100 gal/yr per facility.
- 10) Business machine plastic part coatings:
  - a) Texture coatings.
  - b) Vacuum metalizing coatings.
  - c) Gloss reducers.
  - d) Adhesion primers.
  - e) Electrostatic preparation coatings.
  - f) Resist coatings.
  - g) Stencil coatings.

[Rule 336 §103.3][Locally Enforceable Only]

- c. The following materials are not subject to the Application Methods in Permit Condition 6:

- i. Metal part texture coatings.
- ii. Metal part touch-up and repair coatings.
- iii. Plastic part coating for airbrush operations using less than 5 gal/yr of coating.
- iv. Extreme high gloss coatings for pleasure craft surface coating operations.

[Rule 336 §103.4][Locally Enforceable Only]

- d. The following operations are neither subject to the VOC limits in Permit Condition 5 nor the application methods in Permit Condition 6:

- i. Aerosol can spray coating.
- ii. Low Usage of VOC Coatings Which Exceed VOC Thresholds for Coating Categories Listed in Permit Condition 5: Non-compliant coatings are permitted for use if the annual aggregate usage does not exceed 55 gallons per year (208 liters/yr.) at a facility. The Permittee shall update usage records of these coatings at the end of each month, pursuant to Permit Condition 10.
- iii. A small surface coating source. The Permittee shall calculate and record VOC emissions in accordance with Permit Condition 10
- iv. A Quality Class Q protective coating that is used on equipment, structures, and/or components within a containment facility of a nuclear power plant.
- v. A non-compliant tactical military-equipment coating until such time that a compliant substitute exists.

[Rule 336 §103.5][SIP Rule 336 §305.4]

- vi. Large Appliance Coating:

- 1) Stencil coatings.
- 2) Safety-indicating coatings.
- 3) Solid-film lubricants.
- 4) Electric-insulating and thermal-conducting coatings.
- 5) Coating application utilizing aerosol can spray coating.

- vii. Metal Parts Coating:

- 1) Stencil coatings.

- 2) Safety-indicating coatings.
- 3) Solid-film lubricants.
- 4) Electric-insulating and thermal-conducting coatings.
- 5) Magnetic data storage disk coatings.
- 6) Plastic extruded onto metal parts to form a coating.

[Rule 336 §103.5.f-g][Locally Enforceable Only]

**9. Work Practices-Handling, Disposal and Storage of VOC-Containing Material:**

The Permittee shall store, handle, and dispose of VOC-containing material in a manner that prevents the evaporation of VOC to the atmosphere. Work practices limiting VOC emissions include, but are not limited to, all of the following:

- a. Use and Storage: The Permittee shall cover and keep covered each VOC-containing material which is not currently in use. The Permittee shall store finishing and cleaning materials in closed or covered leak-free containers.
- b. Disposal of VOC-Containing Material: The Permittee shall store all VOC-containing materials intended for disposal including, but not limited to, rags, waste coatings, waste brushes, waste rollers, waste applicators, waste solvents, and their residues, in closed, leak-free containers. The containers shall remain covered with a leak tight cover, when not in use.
- c. Containers in which VOC-containing materials are stored must have a legible label identifying the container's contents.

[Rule 336 §304][SIP Rule 336 §304]

- d. Minimize spills of VOC-containing coatings, thinners, and coating-related waste materials.
- e. Convey VOC-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes.

[Rule 336 §§304.3, 304.4][Locally Enforceable Only]

**10. Recordkeeping:**

The Permittee shall keep the following records for a period of 5 years from the date of such record and shall make them available to the Control Officer without delay upon verbal or written request.

- a. Current Lists: A current list of coatings and any other VOC-containing materials regulated by this Permit shall include the following:
  - i. The Permittee shall express VOC content in one of the following forms:
    - 1) Pounds VOC per gallon,
    - 2) Grams VOC per liter, or
    - 3) Percent VOC by weight along with the specific gravity or density (2 numbers are required).

[Rule 336 §501.1, 501.2.a][SIP Rule 336 §501.1 a]

- ii. The Permittee shall have the written value of the VOC coating, in one of the following forms. The documentation must provide accurate VOC content values or be based on enforceable test methods as approved by the Administrator to determine the VOC content.
    - 1) A manufacturer's technical data sheet;
    - 2) A manufacturer's safety data sheet (SDS or MSDS); or
    - 3) Actual test results.

[Rule 336 §501.2.b][Locally Enforceable Only]

- iii. The Permittee shall maintain usage or purchase records as follows:
- 1) Monthly: Records of the amount of VOC-containing materials purchased or used shall be totaled by the end of the month for the previous month. This includes, but is not limited to, all coating materials, all materials added during preparation of coatings, all materials used to clean coating application equipment, and all materials used to clean coating application areas.
  - 2) Grouping by VOC Content: For purposes of recording usage, the Permittee may give VOC coatings, cleaners, and solvents of similar VOC content (minus exempt compounds) a single group-name, distinct from any product names in the group. The total usage of all the products in that group is then recorded under just one name. In such a case, the Permittee must also keep a separate list that identifies the product names of the particular solvents included under the group name. To the group name shall be assigned the highest VOC content (minus exempt compounds) among the members of that group, rounded to the nearest tenth of a pound of VOC per gallon of material or to the nearest gram VOC per liter of material.  
[Rule 336 §501.2.c][SIP Rule 336 §§501.2.b, 501.3]
- iv. The Permittee shall make the following listings for all coatings that have VOC limits listed in Permit Condition 5:
- 1) VOC before Reducing: The VOC content of each coating as received, minus exempt compounds. List the manufacturer's final VOC content as mixed in the proportions specified by the manufacturer.
  - 2) List Maximum VOC Content (Minus Exempt Compounds) of Coating As Applied: For each coating that is thinned/reduced or additive is introduced, record in a permanent log the VOC content (minus exempt compounds), after mixing the maximum amount of thinner/reducer and other additives. This log will include the following:
    - a) The maximum number of fluid ounces thinner/reducer added to a gallon of unreduced coating (or maximum g/liter) and the maximum fluid ounces of every other additive mixed into a gallon of the coating; or
    - b) The VOC content minus exempt compounds of the coating, after adding the maximum amount of thinner/reducer and other additives.  
[Rule 336 §501.2.d][SIP Rule 336 §501.1.c(1)]
- b. The Permittee shall maintain usage or purchase records for aerosol can spray coating, including VOC content.  
[Rule 336 §501.2.e][Locally Enforceable Only]
- c. A small surface coating source seeking exemption from the VOC limits and/or application methods in accordance with Permit Condition 8.d shall maintain records of the monthly and 12-month rolling total emissions of VOC from surface coating operations. The Permittee shall keep this emission record on-site for inspection or submittal upon request.  
[SIP Rule 220 §302.7]

**ADDITIONAL REQUIREMENTS FOR SPRAY COATING****11. Controls:**

The Permittee shall comply with the following controls for all spray coating operations:

- a. The Permittee shall conduct all spray coating operations inside of a painting enclosure.  
[Rule 315 §301] [Locally Enforceable Only]
- b. Equipment Operated In Enclosures Located Outside a Building: Spray coating equipment shall be operated inside an enclosure which has at least three sides a minimum of eight feet in height and able to contain any object or objects being coated.
  - i. Three-Sided Enclosures: Spray shall be directed in a horizontal or downward pointing manner so that overspray is directed at the walls or floor of the enclosure. No spraying shall be conducted within three feet of any open end and/or within two feet of the top of the enclosure.
  - ii. More Complete Enclosures: For enclosures with three sides and a roof or complete enclosures, spray shall be directed into the enclosure so that the overspray is directed away from any opening in the enclosure. No spraying shall be conducted within three feet of any open end and/or within two feet of any open top of the enclosure.  
[Rule 315 §301.1] [Locally Enforceable Only]
- c. Any spray booth or enclosure with forced air exhaust vented directly outside shall be equipped with exhaust filters which are certified by the manufacturer and accepted by the Control Officer as having a minimum over spray removal efficiency of at least 92% for similar types of applications. The Permittee shall install and maintain the exhaust filters in accordance with the manufacturer's recommendations, with no gaps or visible openings.  
[Rule 315 §301.2] [Locally Enforceable Only]
- d. Reasonable Stack Height Required: Where a stack, vent or other outlet is at such a level that air contaminants are discharged to adjoining property, the Control Officer may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet to a degree that will adequately dilute, reduce or eliminate the discharge of air contaminants to adjoining property.  
[SIP Rule 32.D] [Rule 320 §303]

**12. Exemptions from Particulate Control Requirements:**

The controls required in Permit Condition 11 shall not apply to the following:

- a. Spray coating of buildings or dwellings, including appurtenances and any other ornamental objects that are not normally removed prior to coating.
- b. Spray coating of facility equipment or structures which are fixed in a permanent location and cannot easily be moved into an enclosure or spray booth and which are not normally dismantled or moved prior to coating.
- c. Spray coating of objects which cannot fit inside of an enclosure with internal dimensions of 10'W X 25'L X 8'H.
- d. Enclosures and spray booths and exhausts located entirely in a completely enclosed building, providing that any vents or openings do not allow overspray to be emitted into the outside air.
- e. To any coating operations utilizing only hand-held aerosol cans.  
[Rule 315 §302][Locally Enforceable Only]

**13. Spray Coating Material Limitations for Chromium, Nickel, Cadmium, Manganese, and Lead:**

- a. The Permittee shall not conduct spray application of coatings to any part or product made of metal and/or plastic using coatings containing compounds in excess of the following:
  - i. Hexavalent chromium (Cr+6) (e.g., chromates), lead (Pb), nickel (Ni), or cadmium (Cd), if those compounds comprise more than 0.1% of the coating by mass.
  - ii. Coatings containing compounds of trivalent chromium (Cr+3) or manganese (Mn), if those

compounds comprise more than 1.0% of the coating by mass.

[40 CFR 63.11170(a)(3)]

- b. Exemptions: The following operations are allowed under this General Permit regardless of whether coatings contain compounds in excess of the limits specified in subsection [a] of this Permit Condition:
- i. Applying coatings from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters).
  - ii. Applying adhesives.
  - iii. Surface coating application using powder coating, thermal spray, hand-held, non-refillable aerosol containers, or non-atomizing application technology.

[40 CFR §60.11180 – definitions of coating and spray-applied coating operations]

#### 14. Recordkeeping:

The Permittee shall maintain records of the 12-month rolling total usage of powder and thermal spray coatings to demonstrate compliance with Permit Condition 1.b. These records shall be maintained for a period of 5 years from the date of such record and be made available to the Control Officer without delay upon verbal or written request.

[Rule 220 §302.7]

### FUEL-BURNING EQUIPMENT

#### 15. Equipment and Material Limitations

- a. The Permittee shall only burn natural gas as fuel for boilers and heaters.
- b. The maximum heat input rating of any single fuel-burning unit shall be less than 10.0 million Btu/hr (MMBtu/hr).
- c. The maximum aggregate heat input rating for all fuel-burning equipment operated at the facility shall be less than 42.0 MMBtu/hr.

[SIP Rule 220 §302.2]

### SOLVENT CLEANING

The requirements of this Permit Section apply to dip tanks, solvent cleaners and wipe cleaning that is not part of a coating operation or spray gun cleaning activity regulated by County Rule 336. This Section does not apply to operations using “Low VOC-Cleaner” as defined in Permit Condition 16.

#### 16. Definitions:

For the Purpose of this Permit Section, the following definitions apply:

- a. *Cleaning Solvent*: Solvent used for cleaning that contains more than 2.0% VOC by weight and more than 20 grams of VOC per liter.
- b. *Conforming Solvent*: A cleaning-solvent having a total VOC vapor pressure at 68°F (20°C) not exceeding 1 millimeter of mercury column.
- c. *Freeboard Height*:
  - i. *Batch Cleaning Machine*: The vertical distance from the solvent/air interface to the least elevated point of the top-rim when the cover is open or removed, measured during idling mode.
  - ii. *In-Line Cleaning Machine*: The vertical distance from the solvent/air interface to the lowest entry/exit point, measured during idling mode.
- d. *Freeboard Ratio*: The ratio of the solvent cleaning machine freeboard height to the smaller interior dimension (length, width, or diameter) of the solvent cleaning machine.
- e. *Low-VOC Cleaner*: Any solution or homogeneous suspension that, as used, contains less than 50 grams of VOC per liter of material (0.42 lb VOC/gal) or is at least 95% water by weight or volume.



- f. *Remote Reservoir Cleaning Machine (Degreaser)*: Any non-vapor cleaning machine in which the reservoir for storing the cleaning solvent is completely separated by impervious surfaces from the sink or basin where cleaning is performed, except for a connecting tube or isthmus through which solvent returns to the reservoir when cleaning is stopped.
- g. *Sealed System*: An air-tight or airless cleaning system which is operated according to the manufacturer's specifications and, unless otherwise indicated by the manufacturer, meets all of the following requirements:
  - i. Has a door or other pressure-sealing apparatus that is shut during each cleaning and drying cycle; and
  - ii. Has a differential pressure gauge that always indicates the pressure in the sealed chamber when occupied or in active use; and
  - iii. Any associated pressure relief device(s) shall be so designed and operated as to prevent liquid cleaning-solvents from draining out.
- h. *Small Cleaner*: Any degreaser or dip tank having a liquid surface area of 1 square foot or less or having a maximum capacity of one gallon or less.
- i. *Solvent Cleaning Machine (Cleaning Machine) (Degreaser)*: Any liquid container and ancillary equipment designed to clean surfaces and/or remove surface contaminants using cleaning-solvents.  
[SIP Rule 331 §§ 200, 304.3, 308.2(b)] [Rule 331 §§ 200, 304.3, 308.2(b)]

#### 17. Operating Restrictions:

- a. The Permittee shall not operate a vapor cleaning machine in which solvent-vapor from boiling cleaning solvent is utilized for cleaning objects.
- b. The Permittee shall not use any solvents containing: methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3).  
[SIP Rule 220 §302.2]

#### 18. Solvent Handling Requirements:

The Permittee shall comply with all of the following:

- a. All cleaning solvent, including solvent soaked materials, shall be kept in closed, leak-free, impervious containers that are opened only when adding or removing material.
  - i. Porous or absorbent materials used for wipe cleaning shall be stored in closed containers when not in use.
  - ii. Each container shall be clearly labeled with its contents.
- b. If any cleaning solvent escapes from a container:
  - i. Wipe up or otherwise remove immediately if in accessible areas.
  - ii. For areas where access is not feasible during normal production, remove as soon as reasonably possible.
- c. Unless records show that VOC-containing cleaning material was sent offsite for legal disposal, it will be assumed that it evaporated on site.

[SIP Rule 331 §301]

#### 19. Equipment Requirements:

The Permittee shall comply with all of the following:

- a. Provide a leak-free, impervious container (degreaser) for the solvents and the articles being cleaned.
  - i. The VOC-containment portion shall be impervious to VOC-containing liquid and vapors.
  - ii. No surface of any freeboard required by this Permit shall have an opening or duct through which

VOC can escape to the atmosphere, except as controlled by an Emission Control System (ECS), or as required by OSHA.

- b. Properly maintain and operate all cleaning machine equipment required by this permit.

[SIP Rule 331 §302]

**20. Specific Operating and Signage Requirements for Cleaning Machines:**

The Permittee when using cleaning solvent, other than a low-VOC cleaner, shall comply with the following requirements:

a. Operating Requirements:

- i. Fans: Do not locate nor position comfort fans in such a way as to direct airflow across the opening of any cleaning machine.
- ii. Cover: Do not remove any device designed to cover the solvent unless processing work in the cleaning machine or maintaining the machine.
- iii. Draining: Drain cleaned parts for at least 15 seconds after cleaning or until dripping ceases, whichever is later.
- iv. Spraying: If using a cleaning solvent spray system, unless otherwise authorized in Permit Condition 24, the Permittee shall:
  - 1) Use only a continuous, undivided stream (not a fine, atomized, or shower type spray).
  - 2) Pressure at the orifice from which the solvent emerges shall not exceed 10 psig and shall not cause liquid solvent to splash outside of the solvent container.
  - 3) In an in-line cleaning machine, a shower-type spray is allowed, provided that the spraying is conducted in a totally confined space that is separated from the environment.
- v. Agitation: No person shall cause agitation of a cleaning solvent in a cleaning machine by sparging with air or other gas. Covers shall be placed over ultrasonic cleaners when the cleaning cycle exceeds 15 seconds.
- vi. No Porous Material:
  - 1) The Permittee shall neither clean nor use porous or absorbent materials to clean parts or products in a cleaning machine. Porous or absorbent materials include, but are not limited to, cloth, leather, wood, and rope.
  - 2) The Permittee shall not place an object with a sealed wood handle, including a brush, in or on a cleaning machine.
  - 3) The Permittee shall not place porous or absorbent materials on a cleaning machine.
- vii. Vent Rates: The ventilation rate at the cleaning machine shall not exceed 65 cfm per square foot of evaporative surface ( $20 \text{ m}^3/\text{min}/\text{m}^2$ ), unless that rate must be changed to meet a standard specified and certified by a Certified Safety Professional, a Certified Industrial Hygienist, or a licensed professional engineer experienced in ventilation, to meet health and safety requirements.
- viii. Hoist Speed: Limit the vertical speed of mechanical hoists moving parts in and out of the cleaning machine to a maximum of 2.2 inches per second and 11 ft/min (3.3 m/min).
- ix. Contamination Prevention: Prevent cross contamination of conforming solvents with non-conforming solvents. Use signs, separated work-areas, or other effective means for this purpose.
- x. Filtration Devices: If a filtration device is inherent in the design of the cleaning machine, then such filtration device shall be operated in accordance with manufacturer's specifications and in accordance with the following requirements:
  - 1) The filtration device shall be fully submerged in cleaning solvent at all times during filtration.
  - 2) When the filtration device is completely saturated and must be removed from the cleaning

machine, the filtration device shall be drained until no liquid can flow from the filtration device. Draining and drying such filtration device shall be conducted in a sealed container with no exhaust to the atmosphere or work area.

- 3) After the filtration device is dry, the filtration device shall be stored in a closed, leak-free, impervious container that is legibly labeled with its contents and that remains covered when not in use. Disposal of the filtration device shall be done in a manner that inhibits VOC evaporation and that is in compliance with appropriate/legal methods of disposal.
- b. Signage Requirements: The Permittee, when using cleaning-solvent other than low VOC cleaner, in any solvent cleaning machine (degreaser) or dip tank shall provide on the machine, or within 3/4 feet (1 meter) of the machine, a permanent, conspicuous label or placard which includes, at a minimum, each of the following applicable instructions, or its equivalent:
- i. “Keep cover closed when parts are not being handled.” (This is not required for remote reservoir cleaners.)
  - ii. “Drain parts until they can be removed without dripping.”
  - iii. “Do not blow off parts before they have stopped dripping.”
  - iv. “Wipe up spills and drips as soon as possible; store used spill rags [or ‘wiping material’] in covered container.”
  - v. “Don’t leave cloth or any absorbent materials in or on this tank.”
  - vi. For cleaning machines with moving parts such as hoists, pumps, or conveyors, post: “Operating instructions can be obtained from \_\_\_\_\_,” listing a person or place where the instructions are available.

[SIP Rule 331 §303]

## 21. Solvent Specifications:

- a. Except as provided in Subsection [b] of this Permit Condition, the Permittee, when using cleaning solvent other than a low-VOC cleaner, shall comply with the following requirements:
- i. Use a conforming solvent; or
  - ii. Use a sealed system that is an Air-tight or Airless Cleaning System which is operated according to the manufacturer’s specifications and, unless otherwise indicated by the manufacturer, meets all of the following requirements:
    - 1) Has a door or other pressure-sealing apparatus that is shut during each cleaning and drying cycle; and
    - 2) Has a differential pressure gauge that always indicates the pressure in the sealed chamber when occupied or in active use; and
    - 3) Any associated pressure relief device(s) shall be so designed and operated as to prevent liquid cleaning-solvents from draining out.
- b. Exemption: The following are exempt from Subsection [a] of this Permit Condition:
- i. Low-VOC cleaners.
  - ii. Wipe cleaning.
  - iii. Small Cleaners.
  - iv. Aerosol cans, squirt bottles and other solvent containers intended for handheld use.

[SIP Rule 331 §§ 304; 307.2, 307.3(b); 308.2]

**22. Batch Cleaning Equipment:**

The Permittee shall comply with the following requirements when using cleaning solvent other than a low-VOC cleaner:

- a. With Remote Reservoir: A batch cleaning machine with remote reservoir, including cabinet type(s), shall be equipped with the following:
  - i. A sink-like work area or basin which is sloped sufficiently towards the drain so as to prevent pooling of cleaning solvent.
  - ii. A single, unimpeded drain opening or cluster of openings served by a single drain for the cleaning solvent to flow from the sink into the enclosed reservoir. Such opening(s) shall be contained within a contiguous area not larger than 15.5 square inches (100 cm<sup>2</sup>).
  - iii. Solvent Return: Provide a means for drainage of cleaned parts such that the drained solvent is returned to the cleaning machine.

[SIP Rule 331 §305.1]
- b. With Internal Reservoir (includes dip tanks): A batch cleaning machine without a remote reservoir shall be equipped with all of the following:
  - i. Have and use an internal drainage rack or other assembly that confines within the freeboard all cleaning solvent dripping from parts and returns it to the hold of the cleaning machine (degreaser); and
  - ii. Have an impervious cover which when closed prevents cleaning solvent vapors in the cleaning machine from escaping into the air/atmosphere when not processing work in the cleaning machine. A cover shall be fitted so that in its closed position the cover is between the cleaning solvent and any lip exhaust or other safety vent, except that such position of cover and venting may be altered by an operator for valid concerns of flammability established in writing and certified by a Certified Safety Professional or a Certified Industrial Hygienist to meet health and safety requirements.
  - iii. In the absence of additional applicable freeboard standards, freeboard height shall be not less than 6 inches (15.2 cm); and
  - iv. The freeboard zone shall have a permanent, conspicuous mark that locates the maximum allowable solvent level which conforms to the applicable freeboard requirements.

[SIP Rule 331 §305.2]
- c. Using Cleaning Solvent that is Heated or Agitated: If a cleaning machine uses a cleaning solvent at a temperature above 120°F (49°C) or agitates the solvent, then the Permittee shall comply with one of the following:
  - i. Remote Reservoir Cleaning Machines: For a remote reservoir cleaning machine, comply with Subsection [a] of this Permit Condition and one of the following:
    - 1) Use a stopper in the drain whenever the sink or cabinet is empty of solvent and nothing is being handled in the sink; or
    - 2) Cover the sink or cabinet whenever the sink or cabinet is empty of solvent and nothing is being handled in the sink.
  - ii. Internal Reservoir Cleaning Machines: For an internal reservoir cleaning machine, comply with Subsection [b] of this Permit Condition and one of the following:
    - 1) A Water Cover: A floating layer of water (insoluble in the solvent) at least 1 inch thick, and a freeboard at least 6 inches above the top of the solvent shall be present; or
    - 2) Freeboard and Cover:
      - a) The basin shall have a freeboard ratio of 0.75 or greater and an impervious cover shall cover the basin whenever work is not being processed; and

- b) If a non-conforming solvent is used, the cover shall be of a sliding or rolling type which is designed to easily open and close in a horizontal plane without disturbing the vapor zone.
- iii. Cabinet Style: Keep a cabinet-style cleaning machine closed at all times that it contains cleaning solvent, except when introducing or removing work from the machine.
- iv. Non-Conforming Solvent: A non-conforming solvent may be used in operations to which this Permit applies, if the emissions from the operation are controlled by a Sealed System per Permit Condition 21.a.ii.

[SIP Rule 331 §305.3]

### 23. In-line (Conveyorized) Cleaning Machines:

The Permittee shall not operate an in-line cleaning machine using cleaning solvent unless it complies with all of the following requirements:

- a. Features:
  - i. Carry-Out Prevention: Equip the cleaning machine with either a drying tunnel or another means, such as a rotating basket, sufficient to prevent cleaned parts from carrying out cleaning solvent liquid or vapor.
  - ii. Enclosed Design: An in-line cleaning machine shall be fully enclosed except for entrance and exit portals.
  - iii. Cover: During shutdown hours or if the cleaning machine is idle for more than 30 minutes, a cover shall be used to close the entrance and exit and any opening greater than 16 square inches (104 cm<sup>2</sup>).
- b. Minimized Openings: Entrances and exits should silhouette workloads so that the average clearance between parts and the edge of the cleaning machine opening is either less than four inches (10 cm), or less than 10% of the width of the opening.
- c. The machine shall have a freeboard ratio greater than or equal to 0.75.

[SIP Rule 331 §306]

### 24. Additional Equipment Requirements for Special Cleaning Situations:

- a. Blasting/Misting with Conforming Solvent: blasting or misting with conforming solvent shall be performed in a device having internal drainage, a reservoir or sump, and a completely enclosed cleaning chamber, designed so as to prevent any perceptible liquid from emerging from the device. The device shall be operated such that there is no perceptible leakage from the device except for incidental drops from drained, removed parts.
- b. High Pressure Flushing with Conforming Solvent: Cleaning systems using cleaning solvent that emerges from an object undergoing flushing with a visible mist or at a pressure exceeding 10 psig, shall use a containment system that is designed to prevent any perceptible cleaning solvent liquid from becoming airborne outside the containment system, such as a completely enclosed chamber.

[SIP Rule 331 §307]

### 25. Recordkeeping and Reporting:

The Permittee shall maintain the following records which shall be retained for five years and be made available to the Control Officer upon request.

- a. Current List:
  - i. Maintain a current list of cleaning solvents; state the VOC content of each in pounds VOC per gallon of material or grams per liter of material.
  - ii. A facility using any conforming solvent shall have on site the written value of the total VOC vapor pressure of each such solvent, in one of the following forms:
    - 1) A manufacturer's technical data sheet,

- 2) A manufacturer's safety data sheet (MSDS), or
  - 3) Actual test results.
- b. Usage Records:
- i. Monthly:  
Records of the amount of cleaning solvent used shall be updated by the end of month for the previous month. Show the type and amount of each makeup and all other cleaning solvent to which this Permit Section is applicable.
  - ii. Annually:
    - 1) Certain Concentrates: Use of concentrate that is used only in the formulation of low-VOC cleaner shall be updated at least annually. For a low-VOC cleaner, the Permittee need not keep a record of a cleaning substance that is made by diluting a concentrate with water or non-precursor compound(s) to a level that qualifies as a low-VOC cleaner, if records of the concentrate usage are kept in accordance with this permit.
    - 2) Grouping by VOC Content: For purposes of recording usage, the Permittee may give cleaning solvents of similar VOC content a single group name, distinct from any product names in the group. The total usage of all the products in that group is then recorded under just one name. (In such a case, the Permittee must also keep a separate list that identifies the product names of the particular solvents included under the group name). To the group name shall be assigned the highest VOC content among the members of that group, rounded to the nearest 0.1 pound of VOC per gallon of material, or to the nearest gram VOC per liter of material.  
[SIP Rule 331 §501]

## ABRASIVE BLASTING

### 26. Definitions:

For the purpose of this Permit Section, the following definitions shall apply:

- a. Certified Abrasive: An abrasive that has been certified by the California Air Resources Board (CARB). An abrasive purchased during the certified period remains certified for use following its expiration date. A list of CARB-certified abrasives is available at the following:  
<http://www.arb.ca.gov/ba/certabr/eo/eo.htm>
- b. Confined Enclosure: A structure that is used, in whole or in part, for abrasive blasting operations and consists of three or four sides and a roof or cover.
- c. Hydroblasting: Any abrasive blasting operation that uses a pressurized liquid as the propelling force
- d. Unconfined Blasting: Any abrasive blasting operation that is not performed in a confined enclosure.
- e. Vacuum Blasting: Any abrasive blasting operation in which the spent abrasive, surface material, and dust are immediately collected by a vacuum device.
- f. Wet Abrasive Blasting: Any abrasive blasting operation that uses compressed air as the propelling force, abrasive, and adds a liquid to minimize the plume.
- g. Wind Event: An occurrence when the 60-minute average wind speed is greater than 25 miles per hour.  
[Rule 312 §200][Locally Enforceable Only]

### 27. Exemptions:

Permit Conditions 28 and 29 do not apply to the following:

- a. Self-contained, enclosed abrasive blasting equipment that is not vented to the atmosphere or is vented inside a building with the exhaust directed away from any opening to the building exterior, or;
- b. Hydroblasting, in which pressurized liquid is used as the propelling force.  
[Rule 312 §103][Locally Enforceable Only]

**28. Requirements for Confined Blasting:**

- a. Except for hydroblasting and blasting operations identified in Permit Condition 29.a, all abrasive blasting operations shall be performed in a confined enclosure.  
[Rule 312 §§204, 301][Locally Enforceable Only]
- b. Blasting shall be directed away from the open side of the structure.  
[Rule 312 §204][Locally Enforceable Only]
- c. Dry abrasive blasting in a confined enclosure with a forced air exhaust shall be conducted by implementing one of the following:
  - i. Using a certified abrasive,
  - ii. Using steel or iron shot/grit, or
  - iii. Venting to an emission control system (ECS).  
[Rule 312 §303][Locally Enforceable Only]
- d. Work Practices:  
At the end of the work shift, the Permittee shall clean up spillage, carry-out, and/or trackout of any spent abrasive material with a potential to be transported during a wind event.  
[Rule 312 §308.2][Locally Enforceable Only]

**29. Requirements for Unconfined Blasting:**

- a. Unconfined blasting is allowed only for the following situations:
  - i. The item to be blasted exceeds 8 ft. in any one dimension, or
  - ii. The surface being blasted is fixed in a permanent location, cannot easily be moved into a confined enclosure, and the surface is not normally dismantled or moved prior to abrasive blasting.  
[Rule 312 §301][Locally Enforceable Only]
- b. At least one of the following control measures shall be used for unconfined blasting:
  - i. Wet abrasive blasting, or
  - ii. Vacuum blasting, or
  - iii. Dry abrasive blasting, provided that all of the following conditions are met:
    - 1) Perform only on a metal substrate.
    - 2) Use only certified abrasive for dry unconfined blasting.
    - 3) Blast only paint that have a lead content less than 0.1 percent.
    - 4) Perform the abrasive blasting operation directed away from unpaved surfaces.
    - 5) Use the certified abrasive not more than once unless contaminants are separated from the abrasive through filtration and the abrasive conforms to its original size.
    - 6) Do not perform dry unconfined abrasive blasting operation during a wind event.  
[Rule 312 §§302.3, 306][Locally Enforceable Only]
- c. Paint Lead Level - Prior to unconfined blasting of paint, the owner or operator must be the generator with firsthand knowledge of lead content in the paint, or retain evidence of the lead level from the material safety data sheet or from a lead test performed in accordance with Rule 312 Section 506.  
[Rule 312 §§503.2][Locally Enforceable Only]
- d. The Permittee shall clean up spent abrasive material with a potential to be transported during a wind event. Until removal occurs, the Permittee shall, at a minimum, meet the provisions of Rule 310.  
[Rule 312 §308.1][Locally Enforceable Only]

**30. Requirements for ECS and Monitoring Devices:**

- a. Operation and Maintenance (O&M) Plan Required for ECS
  - i. The Permittee shall provide and maintain, readily available at all times, an O&M Plan for any ECS, other emission processing equipment, and ECS monitoring devices that are required by this air pollution control permit.
  - ii. Within 45 days after the date of permit issuance, the Permittee shall submit to the Permitting Division Manager for approval the O&M Plans of each ECS and each ECS monitoring device.
  - iii. The Permittee shall comply with all the identified actions and schedules provided in each O&M Plan.
- b. Installing and Maintaining ECS Monitoring Devices:

The Permittee, if operating an ECS pursuant to Rule 312, shall properly install and maintain in calibration, in good working order and in operation, devices described in the facility's O&M Plan that indicate temperatures, pressures, rates of flow, or other operating conditions necessary to determine if air pollution control equipment is functioning properly.

[Rule 312 §304][Locally Enforceable Only]

**31. Recordkeeping:**

The Permittee shall retain copies of reports, logs, and supporting documentation required by this Permit for at least 2 years. At a minimum, the Permittee shall keep the following records of abrasive blasting operations on site:

- a. If blasting operations occur daily or are a part of the facility's primary work activity:
  - i. A list of the blasting equipment,
  - ii. The locations of the blasting equipment if the equipment is portable,
  - iii. The days of the week blasting occurs,
  - iv. The normal hours of operation,
- b. If blasting operations occur periodically:
  - i. The date the blasting occurs,
  - ii. The blasting equipment that is operating,
- c. A description of the type of blasting (confined, unconfined, sand, wet, or other),
- d. A description of the ECS associated with the blasting operations,
- e. The type and amount of solid abrasive material consumed on a monthly basis. Include name of certified abrasive used, as applicable, and
- f. Safety Data Sheets (SDS) or results of any lead testing that was performed on paint that is to be removed via unconfined blasting, as applicable.

[Rule 312 §§501, 502][Locally Enforceable Only]

- g. Monitoring and maintenance records specified in the O&M Plan.

[SIP Rule 220 §302.7]



**EMERGENCY STATIONARY INTERNAL COMBUSTION ENGINES (ICE)****32. Operational Limitations:**

- a. Only emergency ICE may construct or operate under this General Permit.
- b. The total combined rating of all stationary ICE greater than 50.0 bhp shall not exceed 250.0 bhp.  
[SIP Rule 220 §302]
- c. The Permittee shall limit the operation of the emergency engine(s) to no more than 100 hours each per calendar year for the purposes of maintenance checks and readiness testing.  
[40 CFR §§ 60.4211(f), 60.4243(d), 63.6640(f)(2)]
- d. The Permittee shall limit the total hours of operation of the emergency engine(s) to no more than 500 hours each per any twelve consecutive months including the hours listed in Subsection [a] above.  
[40 CFR §§ 60.4211, 60.4243, 63.6640]
- e. Stationary ICE shall not be used for peak shaving. The emergency engine(s) shall only be used for the following purposes:
  - i. For power when normal power service fails from the serving utility or if onsite electrical transmission or onsite power generation equipment fails;
  - ii. Reliability-related activities such as engine readiness, calibration, or maintenance or to prevent the occurrence of an unsafe condition during electrical system maintenance as long as the total number of hours of the operation does not exceed 100 hours per calendar year per engine as evidenced by an installed non-resettable hour meter;
  - iii. Emergency pumping of water resulting from a flood, fire, lightning strikes, police action or for any other essential public services which affect the public health and safety;
  - iv. Lighting airport runways;
  - v. Sewage overflow mitigation and/or prevention; or
  - vi. To operate standby emergency water pumps for fire control that activate when sensors detect low water pressure.

[40 CFR §§ 60.4211(f), 60.4243(d), 63.6640(f)(1) - (2)]

**33. Fuel Limitations:**

- a. The Permittee shall not use any diesel fuel (i.e. fuel oil) that contains more than 0.0015% sulfur by weight, alone or in combination with other fuels.  
[SIP Rule 241 §305][40 CFR §§ 60.4207(b), 80.510(b)]
- b. For ICE subject to NSPS Subpart IIII, as specified in Permit Condition 38.a, the Permittee shall only use diesel fuel that has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.  
[40 CFR §§ 60.4207(b), 80.510(b)]
- c. The Permittee shall operate stationary spark ignition (SI) ICE only using natural gas, propane or other liquefied petroleum gas (LPG). Stationary engines shall not be fueled with gasoline.

[SIP Rule 220 §302.2]

**34. Monitoring:**

The Permittee shall install a non-resettable totalizing hour meter prior to startup of the engine(s). If the non-resetting totalizing hour meter is found to be malfunctioning, operation of the engine shall cease until corrective action(s) can be implemented or the function of the meter is restored.

[40 CFR §§ 60.4209, 60.4237, 63.6625(f)]

**35. Opacity Limitations:**

- a. The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity.

[40 CFR §§ 60.4205, 60.4202, 89.113(a)(2)]

- b. Compliance with visible emissions shall be determined using the techniques specified in EPA Reference Method 9, 40 CFR Part 60, Appendix A.

[SIP Rule 220 § 302]

**36. New Source Performance Standards:**

- a. If the Permittee modifies or reconstructs a stationary compression ignition (CI) ICE after July 11, 2005, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart III.

[40 CFR §60.4200(a)(3)]

- b. If the Permittee modifies or reconstructs a stationary spark ignition (SI) ICE after June 12, 2006, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart JJJJ.

[40 CFR §60.4230(a)(5)]

**37. Requirements for Stationary ICE Subject to 40 CFR Part 63 Subpart ZZZZ:**

- a. Applicability: The requirements of 40 CFR Part 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) and this Permit Condition apply to each stationary RICE that was ordered by the original owner prior to June 12, 2006, except for the following:

- i. Emergency RICE subject to NSPS Subpart III.
- ii. Emergency RICE subject to NSPS Subpart JJJJ.
- iii. Emergency RICE located at commercial, residential or institutional establishments.
- iv. Stationary RICE that is tested at a stationary test cell/stand.
- v. Stationary RICE that is used for national security purposes.

[40 CFR §§ 63.6585, 63.6590]

- b. Operating Requirements:

- i. The Permittee shall operate and maintain all engines and associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Control Officer which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR §63.6605]

- ii. The Permittee shall operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow the Permittee's own maintenance plan which must provide to the extent practicable for the operation and maintenance of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR §63.6640(a), Table 6(9)]

- iii. During periods of startup the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR §63.6625(h)]

- c. Maintenance Schedule: The Permittee shall comply with the following for each engine subject to this Permit Condition:

- i. Change oil and filter or perform an Oil Analysis Program every 500 hours of operation or annually, whichever comes first. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity and percent water content. The condemning limits for these parameters are as follow:

- 1) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;

- 2) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new;
- 3) Percent water content (by volume) is greater than 0.5.

If none of these limits are exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil before continuing to use the engine. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

- ii. Inspect air cleaner and spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- iv. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required by this Permit Condition, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable in accordance with Permit Condition 41 – Reporting Requirements.

[40 CFR §63.6603(a), Table 2d(4)]

### 38. Requirements for Stationary ICE Subject to NSPS Subpart IIII:

- a. Applicability: The following stationary ICE are subject to NSPS Subpart IIII: Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines:
  - i. Any stationary CI ICE that is not a fire pump engine that was ordered after July 11, 2005 and manufactured after April 1, 2006.
  - ii. Any CI fire pump engine ordered after July 11, 2005 and manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
  - iii. Any stationary emergency CI ICE that was modified or reconstructed after July 11, 2005.
- b. Emission Standards: Stationary CI ICE shall be certified by the engine manufacturer to meet the emission standards in 40 CFR 60.4205.
 

[40 CFR §§ 60.4202, 60.4205, 60.4211, 1039.115, 89.113]
- c. Crankcase emissions: Naturally aspirated engines shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision does not apply to engines using turbochargers, pumps, blowers, or superchargers for air induction.
 

[40 CFR §§ 60.4205, 89.112(e), 1039.115(a)]
- d. Additional Opacity Standard: For 2007 model year and later CI ICE, the Permittee shall not allow exhaust opacity to exceed 15% during the lugging mode. This restriction does not apply to fire pump engines.
 

[40 CFR §§60.4205, 60.4202, 89.113(a)(2)]
- e. The Permittee shall operate and maintain the engine according to the manufacturer's written instructions, or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine.

[40 CFR §§ 60.4211(a), 60.4206]

- f. The Permittee shall only change those engine settings that are permitted by the manufacturer.
- g. The Permittee shall meet the requirements of 40 CFR Part 89 as it applies.

[40 CFR § 60.4211(a)]

**39. Requirements for Stationary Spark Ignition ICE Subject to NSPS Subpart JJJJ:**

- a. Applicability: The following engines listed below are subject to NSPS Subpart JJJJ: Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines and this Permit Condition:
  - i. Any emergency stationary SI ICE that was ordered after June 12, 2006 and manufactured after January 1, 2009.
  - ii. Any emergency stationary SI ICE that was modified or reconstructed after June 12, 2006.

[40 CFR §60.4230(a)]

- b. Emission Standards: Stationary SI ICE shall be certified by the engine manufacturer to meet the emission standards in 40 CFR 60.4233.

[40 CFR §60.4233] [40 CFR §§ 90.103; 1054.103, 105]

- c. The Permittee shall operate and maintain the certified SI ICE according to the manufacturer's emission-related written instructions.
- d. The Permittee shall meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply.

[40 CFR §60.4243(a)]

- e. The Permittee shall not install an SI ICE with a maximum engine power:

- i. Equal to or less than 25 bhp that does not meet the applicable requirements in 40 CFR §60.4233 after July 1, 2010;
- ii. Greater than 25 bhp that does not meet the applicable requirements in 40 CFR §60.4233 after January 1, 2011;
- iii. These installation dates do not apply to SI ICE that have been reconstructed, nor to secondhand engines or engines that have been removed and reinstalled at a new location.

[40 CFR §60.4236]

**40. Recordkeeping:**

The Permittee shall maintain the following records for a period of at least five years and make them available to the Control Officer upon request:

- a. An initial one-time entry listing the particular engine combustion type (compression or spark-ignition or rich or lean burn); manufacturer; model designation, rated bhp, serial number and where the engine is located on the site.
- b. Monthly rolling twelve-month total of hours of operation, including hours of operation for testing, reliability and maintenance.
- c. Fuel type and sulfur content of fuel. The Permittee shall maintain fuel receipts, contract specifications, pipeline meter tickets, Material Safety Data Sheets (MSDS), fuel supplier information or purchase records, if applicable, from the fuel supplier, indicating the sulfur content of the fuel oil. In lieu of these, testing of the fuel oil for sulfur content to meet the applicable sulfur limit shall be permitted as evidence of compliance.
- d. An explanation for the use of the engine if it is used as an emergency engine.  
[SIP Rule 220 §302.7] [40 CFR §§ 60.4214(b), 60.4245(b), 63.6655(f)]
- e. Records of the following for each engine subject to Permit Condition 37.a (40 CFR Part 63 Subpart ZZZZ):
  - i. Oil and filter change dates or oil analysis results and corresponding hours on the hour meter;

- ii. Inspection and replacement dates for air cleaners, spark plugs, hoses, and belts;
- iii. Records of other emission-related repairs and maintenance performed.

[40 CFR §§ 63.6655(e), 63.6660]

- f. The Permittee shall maintain records of all maintenance performed on each engine that is subject to Permit Condition 37 (NSPS Subpart IIII) and/or Permit Condition 39 (NSPS Subpart JJJJ).

[SIP Rule 220 §302.7] [40 CFR §60.4245(a)(2)]

- g. For each engine subject to Permit Condition 38 or 39 (NSPS Subpart IIII or JJJJ), the Permittee shall maintain a copy of the manufacturer's data for each engine indicating compliance with the emission standards in this Permit.

[SIP Rule 220 §302.7][40 CFR §§ 60.4211(b)(3), 60.4245(a)(3)],

- h. For each engine subject to Permit Condition 37 or 38 (40 CFR Part 63 Subpart ZZZZ or NSPS Subpart IIII), the Permittee shall maintain an onsite copy of the manufacturer's written instructions, or procedures developed by the Permittee in accordance with these Permit Conditions and make it available to the Control Officer upon request.

[SIP Rule 220 §302.7] [40 CFR §§ 63.6655(e), 63.6660]

#### 41. Reporting Requirements:

Deviations from ICE Maintenance Schedule: The Permittee shall report any failure to perform a maintenance operation on the schedule required by Permit Condition 37 (40 CFR 63 Subpart ZZZZ) and the Federal, State or local law under which the risk was deemed unacceptable. The Report shall be submitted to the Control Officer, Attn: Compliance Division Manager, within 2 working days after the date on which the maintenance operation was required to be performed. A subsequent report shall be submitted to the Control Officer within 2 working days after the required maintenance operation is performed.

[40 CFR §63.6640(b)] [SIP Rule 220 §302.8] [Rule 130 §402.4]

#### 42. Emergency Provisions:

The Permittee shall comply with all recordkeeping and reporting requirements of Rule 130 (Emergency Provisions) and Rule 140 (Excess Emissions) if the allowable hours of operation are exceeded.

[SIP Rule 140] [Rule 130]

### NONROAD ENGINES GREATER THAN 50 BHP

#### 43. Applicability:

- a. A nonroad engine is exempt from the permitting requirements of Rule 324, "Stationary Internal Combustion (IC) Engines," providing it does not reside in any one location for more than 12 consecutive months. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replace an engine (or engines) at a location and that is intended to perform the same or similar function as the engine (or engines) replaced will be included in calculating the consecutive time period.

[Rule 324 §§103.2, 212.2.c][SIP Rule 324 §§103.2, 210.2.c]

- b. Should the engine remain in one location for more than 12 consecutive months, it shall lose its nonroad designation. The Permittee shall then provide written notice in accordance with Permit Condition 69 or submit an individual source permit in accordance with Permit Condition 68, as applicable, to permit the engine as a stationary unit.

[Rule 324 §217][Locally Enforceable Only]

#### 44. Fuel Limitation:

The Permittee shall only use fuel that contains less than 0.05% sulfur by weight to operate nonroad engines.

[Rule 320 §§202, 305][Locally Enforceable Only]

**45. Opacity:**

- a. The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity for a period aggregating more than three minutes in any 60-minute period.
- b. Opacity shall be determined by observations of visible emissions conducted in accordance with EPA Reference Method 9 as modified by EPA Reference Method 203B.

[SIP Rule 300 §§301, 501][Rule 324 §103.2]

**46. Recordkeeping:**

The Permittee shall comply with the following recordkeeping requirements for each nonroad engine. Records shall be retained for five years and shall be made available to the Control Officer upon request.

- a. Date that the engine is brought to the facility;
- b. Make, model, serial number and capacity of the engine;
- c. Date of each instance in which the engine is moved from its existing location; and
- d. Fuel type and sulfur content of fuel. The Permittee shall maintain fuel receipts, contract specifications, pipeline meter tickets, Material Safety Data Sheets (MSDS), fuel supplier information or purchase records, if applicable, from the fuel supplier, indicating the sulfur content of the fuel oil. In lieu of these, testing of the fuel oil for sulfur content to meet the applicable sulfur limit shall be permitted as evidence of compliance.

[SIP Rule 220 §302.7]

**PORTABLE SOURCES****47. Move Notice Requirements:**

A portable source may be transported from one location to another within or across Maricopa County boundaries provided the owner or operator of such portable source maintains records of the location of the portable source. The record shall include:

- a. A description of the portable source to be transported including the Maricopa County permit number for such portable source;
- b. A description of the present location;
- c. A description of the location to which the portable source is to be transported, including the availability of all utilities, such as water and electricity, necessary for the proper operation of all control equipment;
- d. The date on which the portable source is to be moved;
- e. The date on which operation of the portable source will begin at the new location;
- f. The duration of operation at the new location.
- g. Notices shall be submitted to:
  - i. By Mail: Maricopa County Air Quality Department, Attn: Permit Division Manager, 3800 N. Central Ave., Suite 1400, Phoenix, AZ 85012
  - ii. By E-mail: AQPermits@mail.maricopa.gov

[SIP Rule 200 §410.4]

**FUGITIVE DUST FROM DUST-GENERATING OPERATIONS****48. Applicability:**

- a. The provisions of this Permit Section apply to all dust-generating operations except for those dust-generating operations listed in Permit Condition 49. Any person engaged in a dust-generating operation subject to this Permit Section shall be subject to the standards and/or requirements of this Permit Section before, after, and while conducting such dust-generating operation, including during weekends, after work hours, and on holidays.
- b. For the purpose of Rule 310, any control measure that is implemented must achieve the applicable standard(s) described in Rule 310, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in Rule 310.
- c. Regardless of whether a dust-generating operation is in compliance with an approved Dust Control Plan or there is no approved Dust Control Plan, the owner and/or operator of a dust-generating operation shall be subject to all requirements of Rule 310 at all times.
- d. Failure to comply with the provisions of these requirements, as applicable, and/or of an approved Dust Control Plan, shall constitute a violation.

[SIP Rule 310 §§102, 301]

**49. Exemptions:**

The provisions of this Permit Section shall not apply to the following activities:

- a. Normal farm cultural practices according to Arizona Revised Statutes (A.R.S.) §49-457 and §49-504.4.
- b. Emergency activities that may disturb the soil conducted by any utility or government agency in order to prevent public injury or to restore critical utilities to functional status.
- c. Establishing of initial landscapes without the use of mechanized equipment or conducting landscape maintenance without the use of mechanized equipment. However, establishing initial landscapes without the use of mechanized equipment and conducting landscape maintenance without the use of mechanized equipment shall not include grading or trenching performed to establish initial landscapes or to redesign existing landscapes.
- d. Playing on or maintaining a field used for non-motorized sports.
- e. Rooftop operations for cutting, drilling, grinding, or coring roofing tile when such activity is occurring on a pitched roof.

[SIP Rule 310 §103]

**50. Dust Control Plan Requirements:**

- a. The owner and/or operator of a dust-generating operation shall submit to the Control Officer a Dust Control Plan with any permit applications that involve dust-generating operations with a disturbed surface area that equals or exceeds 0.10 acre (4,356 square feet) before commencing any routine dust-generating operation. The Dust Control Plan shall be kept available onsite at all times.
- b. The Permittee shall comply with the requirements of the Dust Control Plan and the provisions of MCAQD Rule 310 Sections 301 – 310 at all times.

[SIP Rule 310 §§ 301-310, 409]

**51. Visible Emission Requirements for Dust-Generating Operations:**

- a. The Permittee shall not cause or allow visible fugitive dust emissions to exceed 20% opacity.
- b. The Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust, beyond the property line within which the emissions are generated. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined by using EPA Reference Method 22. This requirement does not apply to dust-generating operations conducted within 25 feet of the property line.

[SIP Rule 310 §303.1]

**52. Exemptions from Dust-Generating Operation Opacity Limitation Requirement:**

- a. If wind conditions cause fugitive dust emissions to exceed the opacity requirements in this permit, despite implementation of the Dust Control Plan OR controls required in this Permit, an owner and/or operator shall:
  - i. Ensure that all control measures and requirements of the Dust Control Plan OR this Permit are implemented and the subject violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.
  - ii. Cease dust-generating operations and stabilize any disturbed surface area consistent with the Stabilization Requirements of these conditions.
  - iii. Compile records consistent with the recordkeeping requirements of these Permit Conditions and document the control measure and other Dust Control Plan OR Permit requirements implemented.
- b. Emergency Maintenance of Flood Control Channels and Water Retention Basins: The opacity limit shall not apply to emergency maintenance of flood control channels and water retention basins, provided that control measures are implemented.

**53. Stabilization Requirements for Dust-Generating Operations:**

- a. Unpaved Parking Lot: The owner and/or operator of any unpaved parking lot shall not allow visible fugitive dust emissions to exceed 20% opacity and shall not allow silt loading equal to or greater than 0.33 oz/ft<sup>2</sup>. However, if silt loading is equal to or greater than 0.33 oz/ft<sup>2</sup>, then the owner and/or operator shall not allow the silt content to exceed 8%.

[SIP Rule 310 §§232, 304.1]
- b. Disturbed Surface Area: The owner and/or operator of any disturbed surface area on which no activity is occurring shall meet at least one of the standards described in Rule 310 Section 304.

[SIP Rule 310 §304]

**54. Control Measures for Dust-Generating Operations:**

For dust-generating operations with a disturbed surface area less than 0.10 acre (4,356 square feet), the owner and/or operator shall install, maintain, and use control measures, as applicable. Control measures for specific dust-generating operations are described in Rule 310 Section 305. The owner and/or operator of a dust-generating operation shall implement control measures before, after, and while conducting dust-generating operations, including during weekends, after work hours, and on holidays.

[SIP Rule 310 §305]

**55. Trackout, Carry-Out, Spillage, and/or Erosion:**

The owner and/or operator of a dust-generating operation shall prevent and control trackout, carry-out, spillage, and/or erosion in accordance with Rule 310 Section 306

[SIP Rule 310 §306.2]

**56. Soil Moisture:**

For facilities that have a disturbed surface area of 1 acre or larger: If water is the chosen control measure in an approved Dust Control Plan, the owner and/or operator of a dust-generating operation shall operate a water application system on-site (e.g., water truck, water hose) while conducting any earthmoving operations on disturbed surface areas 1 acre or larger, unless a soil crust is maintained or the soil is sufficiently damp to prevent loose grains of soil from becoming dislodged.

[SIP Rule 310 §307]

**57. Dust Control Plan Revisions**

- a. If the Control Officer determines that an approved Dust Control Plan has been followed, yet fugitive dust emissions from any dust-generating operation still exceed the standards of this Permit, the Control Officer shall issue a written notice to the owner and/or operator of the dust-generating operation explaining such determination. The owner and/or operator of a dust-generating operation 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 is preparing revisions to the approved Dust Control Plan, such owner and/or operator must still comply with all requirements of this Permit.

[SIP Rule 310 §403.1]

- b. The Permittee shall request a Dust Control Plan revision with a submittal in the manner and form prescribed by the Control Officer if:
  - i. The acreage of a project changes;
  - ii. The permit holder changes;
  - iii. The name(s), address(es), or phone numbers of person(s) responsible for the submittal and implementation of the Dust Control Plan and responsible for the dust-generating operation change; and
  - iv. If the activities related to the purposes for which the Dust Control permit was obtained change.

[SIP Rule 310 §403.2]

#### 58. Recordkeeping:

The Permittee shall maintain the following records for the time period specified in Condition 0 and make them available to the Control Officer upon request:

- a. For facilities that require a Dust Control Plan: The Permittee shall keep a written record of self-inspection on each day dust-generating operations are conducted. Self-inspection records shall include daily inspections for crusted or damp soil, trackout conditions and clean-up measures, daily water usage, and dust suppressant application. Such written record shall also include the following information:
  - i. Method, frequency, and intensity of application or implementation of the control measures;
  - ii. Method, frequency, and amount of water application to the site;
  - iii. Street sweeping frequency;
  - iv. Types of surface treatments applied to and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps;
  - v. Types and results of test methods conducted;
  - vi. If contingency control measures are implemented, actual application or implementation of contingency control measures and why contingency control measures were implemented;
  - vii. List of subcontractors' names and registration numbers updated when changes are made; and
  - viii. Names of employee(s) who successfully completed dust control training class(es), date of the class(es) that such employee(s) successfully completed, and name of the agency/representative who conducted such class(es).

[SIP Rule 310 §502.1]

- b. For facilities that require a Dust Control Plan: The Permittee shall compile and retain records (including records on any street sweeping, water applications, and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps) that provide evidence of control measure application, by indicating the type of treatment or control measure, extent of coverage, and date applied.

[SIP Rule 310 §502.1]

- c. Upon verbal or written request by the Control Officer, the log or the records and supporting documentation shall be provided as soon as possible but no later than 48 hours after the request, excluding weekends. If the Control Officer is at the site where requested records are kept, records shall be provided without delay.

[SIP Rule 310 §§502.3]

**59. Records Retention:**

- a. The Permittee shall retain copies of approved Dust Control Plans, control measures implementation records, and all supporting documentation for at least six months following the termination of the dust-generating operation and for at least two years from the date such records were initiated.  
[SIP Rule 310 §503]
- b. For facilities that do not require a Dust Control Plan: The Permittee shall retain records required by this Permit Section for at least five years from the date such records are established.  
[SIP Rule 100 §504]

**GENERAL CONDITIONS****60. Coverage under the General Permit:**

Any facility operating a surface coating and/or abrasive blasting operation shall be eligible for coverage under this General Permit if the facility meets the requirements specified in the Specific Conditions Section of this Permit and completes the Application for the Authority to Operate and/or Construct Surface Coating and/or Abrasive Blasting Operation under the General Permit. However, if the facility does not meet the provisions of the Specific Conditions Section, the operation will be considered ineligible for coverage and the applicant may be required by the Control Officer to obtain an individual source permit.

[Rule 230 §303][Locally Enforceable Only]

**61. Revocation of the Authority to Operate under this General Permit:**

If the Permittee is notified by the Control Officer of the revocation of the Authority to Operate under this General Permit because of expiration, termination, or cancellation, the Permittee must file an application for an individual source permit. The application for an individual source permit must be filed within 180 days of receiving the notice from the Control Officer. The Permittee may continue to operate under this General Permit until the earlier of either:

- a. The date that it submits a complete application for an individual source permit, or
- b. The date 180 days after receipt of the notice of expiration, termination, or cancellation.

[Rule 230 §311][Locally Enforceable Only]

**62. Posting of Permit:**

This Permit shall be posted in a clearly visible and accessible location on the site where the equipment is installed.

[SIP Rule 200 §312]

**63. Compliance:**

- a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.  
[SIP Rule 200 §§309, 310.3][SIP Rule 220 §406.3]
- b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.  
[SIP Rule 200 §310.4][SIP Rule 220 §302.24][A.A.C. R18-2-306.A.8.a]
- c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.  
[SIP Rule 220 §302.10][A.A.C. R18-2-306.A.8.b]
- d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.  
[SIP Rule 220 §302.12]
- e. Fees: The Permittee shall pay all fees to the Control Officer in accordance with Rule 280. No permit or

permit revision is valid until the applicable permit fee has been received and until the permit is issued by the Control Officer.

[SIP Rule 200 §409][Rule 280 §302][A.R.S. 49-480(D)][SIP Rule 28]

**64. Malfunctions, Emergency Upsets, and Excess Emissions:**

An affirmative defense of an emergency, excess emission, and/or during startup and shutdown shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence as outlined in Rule 130 for emergencies and Rule 140 for excess emissions.

[Rule 130 §§201, 400][Rule 140 §§400, 500][SIP Rule 140]

**65. Revision / Reopening / Revocation:**

The Permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

[SIP Rule 220 §302.11]

**66. Records:**

a. The Permittee shall furnish information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. The information shall be provided in a timeframe specified by the Control Officer. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.

[SIP Rule 220 §302.13][SIP Rule 40]

b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

[SIP Rule 220 §§301.5, 301.6]

**67. Certification of Truth, Accuracy, and Completeness:**

Any document that is required to be submitted by this General Permit, including reports, shall contain a certification by the facility owner, or other responsible official as defined in County Rule 100 §200.110, of truth, accuracy, and completeness. This certification and any other certification required under this Permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[SIP Rule 100 §401][SIP Rule 220 §302.14]

**68. Facility Changes Requiring an Individual Source Permit:**

a. The following changes shall only be made after the Permittee obtains an individual source permit:

i. A change that triggers a new applicable requirement, violates an existing applicable requirement, or violates any of the Specific Conditions of this Permit.

ii. A change that will require a case-by-case determination of an emissions limitation.

iii. A change that will result in the burning of any fuel that is not currently authorized by this permit.

[SIP Rule 200 §301]

b. Coverage under this General Permit shall terminate on the date the individual source permit is issued.

[Rule 230 §307][Locally Enforceable Only]

**69. Facility Changes Allowed:**

a. The Permittee may make the following changes at the facility only after providing written notification to the Control Officer at least 30 days before the change and only if such changes do not require the

Permittee to obtain an individual source permit:

- i. Adding new emissions units.
  - ii. Installing a replacement emissions unit.
  - iii. Adding or replacing air pollution control equipment.
- b. The written notification shall include the following:
- i. When the proposed change will occur;
  - ii. A description of the change; and
  - iii. Any change in emissions of regulated air pollutants.
- c. The Permittee shall keep a record of any physical change or change in the method of operation that could affect emissions. The record shall include a description of the change and date the change occurred.

[Rule 230 §312][Locally Enforceable Only]

#### **70. Right to Entry:**

- a. The Control Officer during reasonable hours, for the purpose of enforcing and administering County or SIP Rules or the Clean Air Act, or any provision of the Arizona Revised Statutes relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under A.R.S. 49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.
- b. The Permittee shall allow the Control Officer or his designated representatives, upon presentation of proper credentials (e.g., Maricopa County Air Quality Department identification) and other documents as may be required by law, to:
  - i. Enter upon the Permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept pursuant to the conditions of the permit;
  - ii. Have access to and copy, at reasonable times, any records that are required to be kept pursuant to the conditions of the permit;
  - iii. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;
  - iv. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the Permit or other applicable requirements; and
  - v. Record any inspection by use of written, electronic, magnetic, and photographic media.

[SIP Rule 100 §105][SIP Rule 220 §302.17-21]

#### **71. Severability:**

The rules, paragraphs, clauses, provisions, and/or sections of this Permit are severable, and, if any rule, paragraph, clause, provision, and/or section of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

[SIP Rule 220 §302.9]

## Cleaning Machine Operating Requirements

- Keep cover closed when parts are not being handled. (This is not required for remote reservoir cleaners.)
- Drain parts until they can be removed without dripping.
- Do not blow off parts before they have stopped dripping.
- Wipe up spills and drips as soon as possible; store used spill rags and wiping material in a covered container.
- Do not leave cloth or any absorbent materials in or on this tank.
- Operating instructions can be obtained from:

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*List a person or place where instructions are available*