

MARICOPA COUNTY AIR QUALITY DEPARTMENT
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
GRAPHIC ARTS OPERATIONS

*This general 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: 05/03/2022

REVISION DATE: 05/03/2017

Philip McNeely, Director, Maricopa County Air Quality Department

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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

FACILITY-WIDE LIMITATIONS

1. Allowable Emissions:

- a. The Permittee shall not allow Volatile Organic Compound (VOC) emissions from graphic arts, related coating operations and fuel burning equipment to exceed 20 tons per any 12-consecutive month period.
- b. Total VOC emissions from all graphic arts and related coating operations prior to control shall be less than 4,200 pounds per month.
- c. Monthly and 12-month rolling total VOC emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. To demonstrate compliance with Subsection [b] of this Permit Condition, the Permittee shall document the quantity of VOC-containing materials used for graphic arts operations and keep sufficient records of the basis of such calculations. The Permittee shall keep these emission records on-site for inspection or submittal upon request.

[Rule 220 § 302.2][Rule 337 §§103.2, 502.5][Rule 241 §§102.1, 301.1] [Locally Enforceable Only]

GRAPHIC ARTS OPERATIONS

2. Material Limitations for Lithographic and Letterpress Operations:

- a. Fountain Solution VOC Limits for Offset Lithographic Presses: The Permittee shall limit the combined total volume of alcohol, alcohol substitute, and any other VOC in each fountain solution source to no more than the following weight percent, as applied:

	Weight Percent VOC Limits for Fountain Solutions, As Applied		
	Fountain Solutions Containing Alcohol	Fountain Solutions Containing Alcohol Refrigerated at or Below 60°F (15.5°C)	Fountain Solutions Containing Alcohol Substitutes
Heat-Set Web	1.6 %	3.0%	5%
Sheet-Fed	5%	8.5%	5%
Cold-Set Web	No Limit	No Limit	5%

[Rule 337 §302.2][Locally Enforceable Only]

- b. The Permittee shall only use cleaning solutions that either contain less than 70% VOC by weight or have a VOC vapor pressure of less than 10 mm Hg at 20°C.

[Rule 337 §302.3][SIP Rule 337 §303]

3. Work Practices – Storage, Handling and Disposal of VOC-Containing Material:

The Permittee shall comply with each of the following:

- a. Labeling of Containers: All containers that are 1 gallon or larger used for collection of VOC-containing material shall be clearly identified with their contents.
- b. Use of VOC-Containing Materials: The Permittee shall not leave containers of ink, coating, adhesive or fountain solution or any other VOC-containing material open when not in use.
- c. Storage and Disposal: The Permittee shall not use open containers for the storage or disposal of VOC-containing materials.

- d. Spills: The Permittee shall implement procedures to minimize spills of any VOC-containing material during handling and transfer to and from containers, enclosed systems, waste receptacles and other equipment.
- e. Conveyance of VOC-Containing Materials: All VOC-containing materials including VOC-containing cleaning materials shall be conveyed from one location to another in labeled, closed containers or pipes.
[Rule 337 §306][Locally Enforceable Only]

4. Monitoring (Fountain Solutions):

- a. The Permittee shall determine the VOC concentration of each fountain solution source containing any alcohol with a refractometer, hydrometer, or conductivity meter. The instrument shall:
 - i. Have a visual readout (analog or digital) with an accuracy of ± 2 percent of the instrument's full scale, or ± 0.5 percent absolute (such as for meter readings given in percent); and
 - ii. Be installed, calibrated, maintained, and operated according to the manufacturer's instructions and the O&M Plan.
[Rule 337 §501.2(a)][SIP Rule 337 §502]
- b. The temperature of a refrigerated fountain solution shall be determined by the use of a temperature monitoring device. Each temperature monitoring device used for the purpose of this Permit Condition shall be accurate to $\pm 0.5^{\circ}\text{F}$ and calibrated by one of the following:
 - i. ASTM standards (ASTM E1-07 Standard Specification for ASTM Liquid-in-Glass Thermometers); or
 - ii. National Institute of Standards and Technology (NIST) traceable calibration certificate; or
 - iii. Manufacturer's recommended method of calibration.
[Rule 337 §§501.2(b), 503.2][Locally Enforceable Only]

5. Recordkeeping and Reporting:

The Permittee shall comply with the recordkeeping and reporting requirements of this Permit Condition. Records can consist of but are not limited to purchase orders, invoices, receipts, usage records, MSDS, and hazardous wastes manifests. Any records required by this Permit Condition shall be retained for five (5) years and be made available to the Control Officer upon request. Records may be kept in either electronic or paper format.

- a. Current Materials List: The Permittee shall maintain a current list of inks, coatings, adhesives, fountain-solution alcohol(s) and alcohol substitutes, thinners, cleaners, and any other VOC-containing materials used that includes at a minimum:
 - i. Material Name: Record the name/code/manufacturer and the appropriate material type category of each VOC-containing materials used in the graphic arts processes.
 - ii. VOC Content: The VOC content of each material listed as pounds of VOC per gallon or grams of VOC per liter.
 - iii. Product Data Sheet: Specific mixing instructions and the VOC content as applied for products requiring dilution.
 - iv. VOC Vapor Pressure: For each cleaning solution, list the VOC composite vapor pressure (VP) at 20°C (68°F) by providing one of the following:
 - 1) A current manufacturer's technical data sheet listing vapor pressure; or
 - 2) A current manufacturer's safety data sheet (MSDS) listing vapor pressure; or
 - 3) Actual vapor pressure test results; or
 - 4) Calculations using certified data from a laboratory or manufacturer revealing the exact formulation.
[Rule 337 §§503.1, 503.4][SIP Rule 337 §§503.1, 504.4]

- b. Material Usage Records: The Permittee shall update records monthly showing the type and amount consumed of each graphic-arts ink, varnish, coating, adhesive, fountain solution, blanket wash, and all other cleaning solutions.

[Rule 337 §502.2][SIP Rule 337 §503.2]

c. Fountain Solutions:

i. Alcohol-Containing Fountain Solutions:

- 1) Daily: The Permittee shall record the temperature of refrigerated alcohol solutions.
[Rule 337 §502.3(a)(1)][Locally Enforceable Only]

2) Weekly: The Permittee shall:

- a) Record the percentage of VOC for each different batch of fountain solution containing alcohol; and
b) Maintain a record of the names and the most current mixing ratio for each different batch of all alcohol, alcohol-substitutes, and water used in making each fountain solution for that source.

[Rule 337 §502.3(a)(2)][SIP Rule 337 §502.1]

ii. Fountain Solutions Containing Alcohol Substitutes: The Permittee shall:

- 1) Monthly: Record the mixing ratio of all alcohol-substitutes to water for each fountain solution source on a press which never uses alcohol; and
2) Maintain a current list of the names of all fountain solutions containing alcohol-substitutes.

[Rule 337 §502.3(b)][SIP Rule 337 §§502.2, 503.1]

FUEL BURNING EQUIPMENT

6. Operating Limitations:

- a. The maximum manufacturer's heat input rating of any single fuel-burning piece of equipment shall not exceed 10 million Btu/Hr.
b. The maximum combined heat input rating for all fuel burning equipment (excluding internal combustion engines, which are not required to be covered by a permit) at the facility as a whole shall not exceed 32 million Btu/Hr.
c. The Permittee shall only burn natural gas, propane, and butane as fuels in the fuel burning equipment.

[Rule 220 §302.2][Locally Enforceable Only]

STATIONARY EMERGENCY INTERNAL COMBUSTION ENGINES (ICE)

7. Operating Restrictions:

- a. Only emergency ICE may be operated under this General Permit.
b. The total combined rating of all stationary ICE shall not exceed 250 brake horsepower (bhp).
[Rule 100 §200.63.e.(1)][Rule 230 §301][Rule 220 §302.2][Locally Enforceable Only]
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.
[Rule 324 §§104.5, 205][SIP Rule 324 §§104.5, 205][40 CFR §§60.4211(f)(2); 60.4243(d); 63.6640(f)(2)]
d. The Permittee shall limit the total hours of operation of each ICE to no more than 500 hours per any twelve consecutive months, including no more than 100 hours per calendar year for the purpose of maintenance checks and readiness testing.

[Rule 324 §205][SIP Rule 324 §205]

- e. Stationary ICE shall not be used for peak shaving. Stationary ICE 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. Sewage overflow mitigation and/or prevention; or
- v. To operate standby emergency water pumps for fire control that activate when sensors detect low water pressure.

[SIP Rule 324 §104][40 CFR §§60.4211(f); 60.4243(d); 63.6640(f)]

8. Fuel Requirements:

- a. The Permittee shall not burn any fuel containing more than 15 ppm sulfur in any ICE.
- b. For ICE subject to NSPS Subpart IIII, as specified in Permit Condition 11.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.
[Rule 324 §301.1] [40 CFR §§60.4207(a,b); 80.510(c)(1)-(2)]
- c. The Permittee shall only operate stationary spark ignition (SI) ICE using gasoline, natural gas, propane or other liquefied petroleum gas (LPG)
[Rule 220 §302.2]
- d. Engines that burn gasoline must meet gasoline sulfur standards of 30 ppm per gallon as a refinery or importer average and 80 ppm per gallon as a per-gallon cap.
[40 CFR §§60.4235, 80.195]

9. Monitoring:

The Permittee shall install a non-resettable totalizing hour meter prior to startup of each engine. 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

[Rule 324 §308] [40 CFR §§60.4209; 63.6625(f)]

10. Opacity Limitations:

- a. Unless otherwise stated in Permit Condition 11.e, the Permittee shall not discharge into the ambient air from any single source of emissions any air contaminate (including non-road engines), other than uncombined water, in excess of 20% opacity.
- 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 324 §§303, 503.8]

11. Requirements for Stationary ICE Subject to NSPS Subpart IIII:

*** this Condition may be applicable to emergency diesel engines ***

- 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.

[40 CFR §60.4200(a)]

- b. Emission Standards: Stationary ICE shall comply with the EPA emission standards in Table 1 or Table 2, as applicable, for the same maximum engine power category and model year:

Table 1: Emission Standards for Stationary Emergency CI Engines, Excluding Fire Pump Engines

Maximum Engine Power	Model Year	Nonroad Engine Rating	Units are g/kW-hr (g/bhp-hr)				
			NMHC + NOx	HC	NOx	CO	PM
kW<8 (bhp<11)	Pre-2007	Tier 1	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
	2007	Tier 2	7.5 (5.6)			8.0 (6.0)	0.80 (0.60)
	2008+	Tier 4	7.5 (5.6)			8.0 (6.0)	0.40 (0.30)
8≤kW<19 (11≤bhp<25)	Pre-2007	Tier 1	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
	2007	Tier 2	7.5 (5.6)			6.6 (4.9)	0.80 (0.60)
	2008+	Tier 4	7.5 (5.6)			6.6 (4.9)	0.40 (0.30)
19≤kW<37 (25≤bhp<50)	Pre-2007	Tier 1	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
	2007	Tier 2	7.5 (5.6)			5.5 (4.1)	0.60 (0.44)
	2008+	Tier 4	7.5 (5.6)			5.5 (4.1)	0.30 (0.22)
37≤kW<75 (50≤bhp<100)	Pre-2007	Tier 1			9.2 (6.9)		
	2007	Tier 2	7.5 (5.6)			5.0 (3.7)	0.4 (0.3)
	2008+	Tier 3	4.7 (3.5)			5.0 (3.7)	0.4 (0.3)
75≤kW<130 (100≤bhp<175)	Pre-2007	Tier 1			9.2 (6.9)		
	2007+	Tier 3	4.0 (3.0)			5.0 (3.7)	0.30 (0.22)
130≤kW (175≤bhp)	Pre-2007	Tier 1		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
	2007+	Tier 3	4.0 (3.0)			3.5 (2.6)	0.2 (0.15)

Table 2: Emission Standards for Stationary CI Fire Pump Engines

Maximum Engine Power	Model Year	Nonroad Engine Rating	Units are g/kW-hr (g/bhp-hr)		
			NMHC + NOx	CO	PM
kW<8 (bhp<11)	Pre-2011	Tier 1	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	Tier 4 ¹	7.5 (5.6)		0.40 (0.30)
8≤kW<19 (11≤bhp<25)	Pre-2011	Tier 1	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	Tier 4 ¹	7.5 (5.6)		0.40 (0.30)
19≤kW<37 (25≤bhp<50)	Pre-2011	Tier 1	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	Tier 4 ¹	7.5 (5.6)		0.30 (0.22)
37≤kW<75 (50≤bhp<100)	Pre-2011	---	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011–2013 ²	---	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+	Tier 3 ¹	4.7 (3.5)		0.40 (0.30)
75≤kW<130 (100≤bhp<175)	Pre-2010	---	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010–2012 ²	---	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+	Tier 3 ¹	4.0 (3.0)		0.30 (0.22)
130≤kW (175≤bhp)	Pre-2009	---	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009–2011 ²	---	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	Tier 3 ¹	4.0 (3.0)		0.20 (0.15)

¹These ratings are more stringent than required for fire pump engines but can be used to verify compliance with the emission standards.

²The emission standards for these specified model year ranges only apply to engines in the specified maximum engine power category that have a rated speed greater than 2,650 rpm.

[40 CFR §60.4205]

- c. Compliance Demonstration:
 - i. Pre-2007 model year engines, excluding fire pump engines: The Permittee shall demonstrate compliance with the emission standards in Table 1 by one of the following;
 - 1) Purchasing an engine certified to the applicable emission standards for the same maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
 - 2) Keeping records of data from the engine manufacturer or control device vendor indicating compliance with the standards.
 - ii. 2007 model year and later engines, excluding fire pump engines: Engines shall be certified by the manufacturer to meet the standards in Table 1 for the same maximum engine power category and corresponding model year.
 - iii. Fire pump engines manufactured before the dates in Table 3: The Permittee shall demonstrate compliance with the emission standards in Table 2 by one of the methods listed in Subsection [c.i] of this Permit Condition:

Table 3: Certification Dates for Stationary CI Fire Pump Engines

Engine power	Starting model year new fire pump engines must be certified
kW<75 (bhp<100)	2011
75≤kW<130 (100≤bhp<175)	2010
130≤kW<185 (175≤bhp<250)	2009

- iv. Fire pump engines manufactured after the dates specified in Table 3 shall be certified by the manufacturer to meet the standards specified in Table 2 for the same maximum engine power category and corresponding model year.

[40 CFR §60.4211]
- d. Model Year 2008 and Later Stationary ICE less than 50 bhp:
 - i. Stationary ICE less than 50 bhp that have adjustable parameters must meet all the requirements of this Permit Condition for any adjustment in the physically adjustable range.
 - ii. The Permittee shall not equip any ICE with a defeat device.

[40 CFR §§60.4202(a)(1)(ii); 60.4205(b); 1039.115]
- e. 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 engines designated fire pump engines.

[40 CFR §§60.4205, 60.4202, 89.113(a)(2)]
- f. Opacity levels are to be measured and calculated as set forth in 40 CFR part 86, subpart I.

[40 CFR §89.113(b)(2)]
- g. 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)]
- h. 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]

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

[40 CFR §60.4211(a)]

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

*** this Condition may be applicable to emergency gasoline, natural gas, propane or other LPG engines ***

- 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.
 - iii. Any emergency stationary SI ICE using alcohol-based fuels is considered a gasoline engine under NSPS Subpart JJJJ.

[40 CFR §60.4230(a)]

- b. Emission Standards: Stationary SI ICE shall be certified by the engine manufacturer to meet the following emission standards:
 - i. Stationary SI ICE with a maximum engine power less than or equal to 25 bhp manufactured on or after July 1, 2008 or that have been modified or reconstructed after June 12, 2006 shall be certified to meet the emission standards and related requirements for non-handheld engines in Table 4. Engines with a date of manufacture prior to 7/1/08 must comply with the emission standards specified in Table 4 applicable to engines manufactured on 7/1/08.

Table 4: Certification Requirements for SI ICE ≤25 bhp

Engine Displacement	Manufacture Date	Emission Standards
< 225 cc	7/1/08 -- 12/31/11	40 CFR Part 90
	1/1/12 and later	40 CFR Part 1054
≥ 225 cc	7/1/08 -- 12/31/10	40 CFR Part 90
	1/1/11 and later	40 CFR Part 1054

cc = cubic centimeters

- ii. Gasoline and rich burn LPG engines with a maximum engine power greater than 25 bhp manufactured after January 1, 2009 or that have been modified or reconstructed after June 12, 2006 shall be certified to meet the emission standards and related requirements in Table 5. Engines with a date of manufacture prior to 1/1/09 must comply with the emission standards specified in Table 5 applicable to engines manufactured on 1/1/09.

Table 5: Certification Requirements for Gasoline and Rich Burn LPG Engines >25 bhp

Maximum Engine Power	Certification Requirement
25<bhp<130	Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines
bhp≥130	40 CFR Part 1048
Alternative for SI ICE 25<bhp≤40, total displacement ≤1,000 cc	40 CFR part 90 or 1054, as appropriate

- iii. SI ICE with a maximum engine power greater than 25 bhp, excluding gasoline and rich burn LPG engines, shall be certified to meet the emission standards in Table 6. For engines with a maximum engine power greater than 100 bhp manufactured prior to 1/1/2011, that were certified to the standards in 40 CFR Part 1048 applicable to engines that are not severe duty engines, if such engine was certified to a CO standard above the standard in Table 6, the Permittee may meet the CO certification standard for which the engine was certified.

Table 6: Certification Requirements for SI ICE >25 bhp, Excluding Gasoline and Rich Burn LPG Engines

Maximum Engine Power	Manufacture Date	Emission Standards						
		(g/bhp-hr)				(ppmvd at 15% O ₂)		
		NO _x	CO	VOC	NO _x + HC	NO _x	CO	VOC
25<bhp<130	1/1/2009	N/A	387	N/A	10	N/A	N/A	N/A
bhp≥130		2.0	4.0	1.0	N/A	160	540	86
25<bhp<100 alternative standard	1/1/2009 -- 12/31/2010	2.0	4.0	1.0	N/A	160	540	86

- iv. Natural gas and lean burn LPG engines with a maximum engine power:
 - 1) Greater than 25 bhp but less than 130 bhp that were manufactured prior to 1/1/2009 and modified or reconstructed after 6/12/06 shall comply with the emission standards in Table 6;
 - 2) Equal to or greater than 130 bhp that were manufactured prior to 1/1/2009 and modified or reconstructed after 6/12/06 shall comply with the emission standards in Table 7.

Table 7: Emission Standards for Modified & Reconstructed Natural Gas & Lean Burn LPG ICE ≥130 bhp

Maximum Engine Power	Emission Standards					
	(g/bhp-hr)			(ppmvd at 15% O ₂)		
	NO _x	CO	VOC	NO _x	CO	VOC
bhp≥130	3.0	4.0	1.0	250	540	83

[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 SI ICE with a maximum engine power:
 - i. Equal to or less than 25 bhp that do not meet the applicable requirements in 40 CFR 60.4233 after July 1, 2010;
 - ii. Greater than 25 bhp that do 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 second hand engines or engines that have been removed and reinstalled at a new location.

[40 CFR §60.4236]

13. Requirements for Stationary ICE Subject to 40 CFR Part 63, Subpart ZZZZ:

*** this Condition is applicable to older stationary engines ***

- 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 IIII, as specified in Permit Condition 11.a.
 - ii. Emergency RICE subject to NSPS Subpart JJJJ, as specified in Permit Condition 12.a.

- iii. Stationary RICE that is tested at a stationary test cell/stand.
- iv. 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% of the Total Base Number of the oil when new;
- 2) Viscosity of the oil has changed by more than 20% 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 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 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.

[40 CFR §63.6603(a), Table 2d(4)]

14. Recordkeeping:

- a. The Permittee shall maintain the following records for all stationary ICE for a period of five years:
 - i. An initial one time entry listing the particular engine combustion type (compression or spark-ignition or rich or lean burn); manufacturer; model designation; rated brake horsepower; serial number, and; where the engine is located on the site.
 - ii. Monthly rolling twelve month total of hours of operation, including hours of operation for testing, reliability and maintenance.
 - iii. Fuel type and sulfur content of fuel. The Permittee shall maintain fuel receipts, contract specifications, pipeline meter tickets, MSDS, fuel supplier information, or purchase records 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.
 - iv. An explanation for the use of the engine if it is used as an emergency engine.
[Rule 220 §302.7] [40 CFR §§60.4214(b); 60.4245(b); 63.6655(f)]
- b. The Permittee shall maintain records of all maintenance performed on engines subject to Permit Condition 12 (NSPS Subpart JJJJ), as applicable.
[40 CFR §60.4245(a)(2)]
- c. The Permittee shall maintain a copy of manufacturer data for each engine subject to Permit Conditions 11 or 12 (NSPS Subpart IIII or JJJJ) indicating compliance with the emission standards contained in this Permit, as applicable.
[Rule 220 §302.7] [40 CFR §§60.4211(b)(3); 60.4245(a)(3)]
- d. For each engine subject to Permit Conditions 11 or 13 (NSPS Subpart IIII or 40 CFR 63 Subpart ZZZZ), 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.
[Rule 220 §302.7] [40 CFR §§63.6655(e); 63.6660]
- e. For each engine subject to Permit Condition 13 (40 CFR 63 Subpart ZZZZ), the Permittee shall maintain records which must include, at a minimum, the following:
 - i. Oil and filter change dates and corresponding hour on the hour meter;
 - ii. Inspection and replacement dates for air cleaners, hoses, and belts; and
 - iii. Records of other emission-related repairs and maintenance performed.
[Rule 100 §504] [Rule 220 §501] [40 CFR §§63.6640(a); 63.6655(e)(2); 63.6660]

15. Reporting:

- a. Deviations from Stationary ICE Maintenance Schedule:
The Permittee shall report any failure to perform a maintenance operation on the schedule required by Permit Condition 13.c 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.
[Rule 220 §302.8] [40 CFR §63.6640(b)]
- b. Emergency Reporting:
The Permittee, as soon as possible, shall telephone the Control Officer giving notice of the emergency and shall submit a notice of the emergency to the Control Officer by certified mail, facsimile, or hand delivery within 2 working days of the time when operating limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.
[Rule 130 §402][Locally Enforceable Only]

RULE 310: FUGITIVE DUST FROM DUST-GENERATING OPERATIONS**16. Applicability:**

- a. The provisions of this Permit Section apply to all dust-generating operations except for those dust-generating operations listed in the Condition below. 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]

17. Exemptions:

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

- a. 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.
- b. 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.

[SIP Rule 310 §103]

18. 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]

19. 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]

20. 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, the Permittee shall:
 - i. Ensure that all control measures and requirements of the Dust Control Plan are implemented and the

subject violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.

- 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 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.

[SIP Rule 310 §303.2]

21. 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/ft². However, if silt loading is equal to or greater than 0.33 oz/ft², then the owner and/or operator shall not allow the silt content to exceed 8%. An unpaved parking lot includes any area that is not paved and that is used for parking, maneuvering, material handling, or storing motor vehicles and equipment
- 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 MCAQD Rule 310 Section 304.

[SIP Rule 310 §§ 232, 304.1]

[SIP Rule 310 §304]

22. 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 MCAQD 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]

23. 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 MCAQD Rule 310 Section 306.

[SIP Rule 310 §306.2]

24. Dust Control Plan Revisions:

For dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet):

- 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.
- 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;

[SIP Rule 310 §403.1]

- 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]

25. 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 dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet), 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 dust-generating operations with a disturbed surface area less than 0.10 acre (4,356 square feet), 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]

26. Records Retention:

- a. For dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet), 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 dust-generating operations with a disturbed surface less than 0.10 acre (4,356 square feet), the Permittee shall retain records required by this rule for at least five years from the date such records

are established.

[Rule 100 §504][Locally Enforceable Only]

GENERAL CONDITIONS

27. Coverage under the General Permit:

Any facility operating a graphic arts 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 a Graphic Arts 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]

28. 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]

29. Posting of Permit:

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

[Rule 200 §312][Locally Enforceable Only]

30. 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.

[Rule 200 §§309, 310.3][Rule 220 §406.3][Locally Enforceable Only]

- 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.

[Rule 200 §310.4][Rule 220 §302.24][A.A.C. R18-2-306.A.8.a][Locally Enforceable Only]

- 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.

[Rule 220 §302.10][A.A.C. R18-2-306.A.8.b][Locally Enforceable Only]

- d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[Rule 220 §302.12][Locally Enforceable Only]

- 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.

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

31. 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]

32. 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.

[Rule 220 §302.11][Locally Enforceable Only]

33. 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.

[Rule 100 §106][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.

[Rule 220 §§301.5, 301.6][Locally Enforceable Only]

34. 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 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.

[Rule 100 §401][Rule 220 §302.14][Locally Enforceable Only]

35. 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.

[Rule 230 §305][Rule 200 §301][Locally Enforceable Only]

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

[Rule 230 §307][Locally Enforceable Only]

36. 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][Rule 220 §404.3.d] [Locally Enforceable Only]

37. 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.
[Rule 100 §105][Rule 220 §302.17-21][SIP Rule 43]

38. 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.

[Rule 220 §302.9][SIP Rule 80]