

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

December 21, 2016

**PERMIT TO INSTALL**  
305-05J

**ISSUED TO**  
Kay Automotive Graphics

**LOCATED AT**  
57 Kay Industrial Drive  
Lake Orion, Michigan

**IN THE COUNTY OF**  
Oakland

**STATE REGISTRATION NUMBER**  
N2702

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: <b>October 26, 2016</b>	
DATE PERMIT TO INSTALL APPROVED: <b>December 21, 2016</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant / Measurement Abbreviations</b>	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO <sub>2</sub> e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H <sub>2</sub> S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO <sub>x</sub>	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM10	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO <sub>2</sub>	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

\*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

### GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
  
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). **(R 336.1370)**
  
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

**SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EU-PRINT001	Printing Line 1 - One stationary semi-automatic screen printing press, and one electric infrared dryer.	04-2011 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT002	Printing Line 2 - One semi-automatic screen printing press and one electric infrared dryer.	12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT003	Printing Line 3 - One semi-automatic screen printing press and one electric infrared dryer.	11-1988 / 01-2014 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT004	Printing Line 4 - One stationary semi-automatic screen printing press and one electric infrared dryer. Note: Press 4 and Press 12 will not operate simultaneously.	04-1995 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT005	Printing Line 5 - One stationary semi-automatic screen printing press and one infrared/electric dryer.	01-2011 / 04-2011	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT006	Printing Line 6 - One automatic printing press and one electric infrared/electric dryer.	01-2014	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT007	Printing Line 7 - One semi-automatic screen printing press and one infrared/electric dryer.	02-1993 / 08-2012 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT008	Printing Line 8 - One automatic screen printing press and one electric infrared dryer.	08-2011 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-PRINT012	Printing Line 12 - One semi-automatic screen printing press that utilizes the electric infrared dryer on EU-PRINT004. Note: Press 4 and Press 12 will not operate simultaneously.	03-01-2013 / 12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-MOBILPRINT	Three mobile screen printing presses utilized on any of the stationary print lines.	12-21-2016	FG-LINES/OVENS FG-SCREENWASH
EU-OVENLARGE	Natural gas fired large Despatch oven	01-1987	FG-LINES/OVENS
EU-OVENSMALL	Natural gas fired small Despatch oven	01-1987	FG-LINES/OVENS
EU-SWROOM	Screen Wash Room: Screen washing process of the printing screens used in the printing process. Printing screens are solvent washed on either the printing line itself or in the screen wash room.	01-1987	FG-SCREENWASH
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.			

**FLEXIBLE GROUP SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-SCREENWASH	Screen washing process of the printing screens used in the printing process. Printing screens are solvent washed on either the printing line itself or in a special room called the screen wash room.	EU-PRINT001 EU-PRINT002 EU-PRINT003 EU-PRINT004 EU-PRINT005 EU-PRINT006 EU-PRINT007 EU-PRINT008 EU-PRINT012 EU-MOBILPRINT EU- SWROOM
FG-LINES/OVENS	Consists of the ten printing lines and the large and small Despatch ovens. Each printing line includes one infrared electric dryer and one stationary and/or mobile printing press.	EU-OVENLARGE EU-OVENSMALL EU-PRINT001 EU-PRINT002 EU-PRINT003 EU-PRINT004 EU-PRINT005 EU-PRINT006 EU-PRINT007 EU-PRINT008 EU-PRINT012 EU-MOBILPRINT
FG-FACILITY	All process equipment at the stationary source including equipment covered by other permits, grandfathered equipment and exempt equipment.	All emission units at the stationary source.

**The following conditions apply to: FG-SCREENWASH**

**DESCRIPTION:** Screen washing process of the printing screens used in the printing process. Printing screens are solvent washed on either the printing line itself or in a special room called the screen wash room.

**Emission Units:** EU-PRINT001, EU-PRINT002, EU-PRINT003, EU-PRINT004, EU-PRINT005, EU-PRINT006, EU-PRINT007, EU-PRINT008, EU-PRINT012, EU-MOBILPRINT, EU-SWROOM

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	18.0 tpy	12-month rolling time period as determined at the end of the calendar month	FG-SCREENWASH	SC VI.3	R 336.1702(a)

**II. MATERIAL LIMITS**

Material	Maximum VOC Content, As Applied	Annual Usage Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Screen Wash Solvent	4.03 pounds per gallon	8,950 gallons	12-month rolling time period as determined at the end of the calendar month	FG-SCREENWASH	SC VI.4	R 336.1205(1)(a)

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall capture all waste screen wash, solvents, etc. (materials) and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1702(a))**
2. The permittee shall handle all VOC and / or HAP containing materials in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

**IV. DESIGN/EQUIPMENT PARAMETERS**

NA

**V. TESTING/SAMPLING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

## **VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **(R 336.1225, R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a calendar month basis for the FG-SCREENWASH:
  - a) Gallons of each material used and reclaimed.
  - b) VOC content, in pounds per gallon, of each material used.
  - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor and make them available to the Department upon request. **(R 336.1702(a))**

4. The permittee shall keep the following information on a calendar month basis for FG-SCREENWASH:
  - a) Gallons or pounds of each VOC containing material used and, if applicable, reclaimed for each material listed in SC Section II "Material Limits" per calendar month.
  - b) VOC content of each VOC containing material listed in SC Section II "Material Limits" used.
  - c) Gallons or pounds of each VOC containing material listed in SC Section II "Material Limits" used per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a))**

## **VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-PRINT001E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-PRINT001W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-PRINT003E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-PRINT003W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV-PRINT004E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
6. SV-PRINT004W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
7. SV-PRINT005E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
8. SV-PRINT005W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
9. SV-PRINT006E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
10. SV-PRINT006W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
11. SV-PRINT007E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
12. SV-PRINT007W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
13. SV-PRINT008E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
14. SV-PRINT008W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
15. SV-PRINT002E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
16. SV-PRINT002W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
17. SV-SWROOM	24	55	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply to: FG-LINES/OVENS**

**DESCRIPTION:** Consists of the ten printing lines and the large and small Despatch ovens. Each printing line includes one infrared electric dryer and one stationary and/or mobile printing press.

**Emission Units:** EU-PRINT001, EU-PRINT002, EU-PRINT003, EU-PRINT004, EU-PRINT005, EU-PRINT006, EU-PRINT007, EU-PRINT008, EU-PRINT012, EU-MOBILPRINT, EU-OVENLARGE, EU-OVENSMALL

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	47.5 tpy	12-month rolling time period as determined at the end of each calendar month	FG-LINES/OVENS	SC VI.1, SC VI.2 SC VI.3	R 336.1702(a)
2. VOC	6.5 lb/gal (minus water) <sup>a</sup> , as applied	Calendar day	FG-LINES/OVENS when using ink	SC VI.1, SC VI.2 SC VI.3	R 336.1702(a)
3. VOC	4.8 lb/gal (minus water) <sup>a</sup> , as applied	Calendar day	FG-LINES/OVENS when using clearcoat	SC VI.1, SC VI.2 SC VI.3	R 336.1702(a)
<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. <b>(R 336.1602(4))</b>					

**II. MATERIAL LIMITS**

Material	Maximum VOC Content, As Applied	Annual Usage Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Clearcoat	4.8 pounds per gallon	8,791 gallons	12-month rolling time period as determined at the end of the calendar month	FG-LINES/OVENS	SC VI.4	R 336.1205(1)(a)
2. Ink	6.5 pounds per gallon	8,115 gallons	12-month rolling time period as determined at the end of the calendar month	FG-LINES/OVENS	SC VI.4	R 336.1205(1)(a)

### **III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate EU-PRINT004 and EU-PRINT012 simultaneously. **(R 336.1225, R 336.1702)**
2. The permittee shall capture all waste inks, coatings, reducers, solvents and thinners, screen wash, *etc.* (materials) and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1702(a))**
3. The permittee shall handle all VOC and / or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

### **IV. DESIGN/EQUIPMENT PARAMETERS**

NA

### **V. TESTING/SAMPLING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall verify the VOC content of any ink, coating, *etc.* (material), as received and as applied, using federal Reference Test Method 24 or 24A pursuant to Rule 1040(5). Upon prior written approval by the AQD District Supervisor, VOC content may be determined from manufacturer's formulation data. If the Method 24 or 24A and the formulation values should differ, the Method 24 or 24A results shall be used to determine compliance. **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

### **VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **(R 336.1225, R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a calendar day basis for FG-LINES/OVENS:
  - a) Each press ID number in operation (and the time of operation applies to EU-PRINT004 and EU-PRINT012 only)
  - b) Gallons or pounds (with water) of each material used.
  - c) VOC content (minus water and with water) of each material as applied.
  - d) VOC emission calculations determining the volume-weighted average VOC content (minus water) of the inks/coatings as applied on a calendar day basis.
  - e) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - f) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor and make them available to the Department upon request. **(R 336.1702(a))**

4. The permittee shall keep the following information on a calendar month basis for FG-LINES/OVENS:
  - a) Gallons or pounds of each VOC containing material used and, if applicable, reclaimed for each material listed in SC Section II "Material Limits" per calendar month.
  - b) VOC content of each VOC containing material listed in SC Section II "Material Limits" used.
  - c) Gallons or pounds of each VOC containing material listed in SC Section II "Material Limits" used per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PRINT001E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-PRINT001W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-PRINT003E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-PRINT003W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV-PRINT004E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
6. SV-PRINT004W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
7. SV-PRINT005E	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
8. SV-PRINT005W	12	55	R 336.1225, 40 CFR 52.21(c) & (d)
9. SV-PRINT006E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
10. SV-PRINT006W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
11. SV-PRINT007E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
12. SV-PRINT007W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
13. SV-PRINT008E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
14. SV-PRINT008W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
15. SV-PRINT002E	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
16. SV-PRINT002W	24	55	R 336.1225, 40 CFR 52.21(c) & (d)
17. SV-OVENLARGE-N	8	55	R 336.1225, 40 CFR 52.21(c) & (d)
18. SV-OVENLARGE-S	8	55	R 336.1225, 40 CFR 52.21(c) & (d)
19. SV-OVENSMALL	16	55	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

1. The permittee shall maintain each emission unit with a label using a method acceptable to the AQD District Supervisor. **(R 336.1201)**

**The following conditions apply Source-Wide to: FGFACILITY**

**DESCRIPTION:** All process equipment at the stationary source including equipment covered by other permits, grandfathered equipment and exempt equipment.

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Testing / Monitoring Method</b>	<b>Underlying Applicable Requirements</b>
1. Each Individual HAP	8.9 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.2	R336.1205(3)
2. Aggregate HAPs	22.4 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.2	R336.1205(3)
3. VOC	7.7 tpy	12-month rolling time period as determined at the end of each calendar month.	All exempt equipment (current and future) at the stationary source	SC VI.3	R336.1205
4. VOC	89.9 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.4	R336.1205(3)

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**IV. DESIGN/EQUIPMENT PARAMETERS**

NA

#### **V. TESTING/SAMPLING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall determine the HAP content of any material as received and as applied, using manufacturer's formulation data. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311. **(R 336.1205(3), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. The VOC content of any material, as received and as applied, shall be determined using federal Reference Test Method 24 (inks, coatings, fountain solution additives and cleaning solvents) or 24A (only applies to solvent-borne inks and related coatings used in the publication rotogravure industry) pursuant to Rule 1040(5). Upon prior written approval by the AQD District Supervisor, VOC content may be determined from manufacturer's formulation data. If the Method 24 or 24A and the formulation values should differ, the Method 24 or 24A results shall be used to determine compliance. **(R 336.1205(3), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

#### **VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **(R 336.1205(3))**
2. The permittee shall keep the following information on a calendar month basis for FG-FACILITY:
  - a) Gallons or pounds of each HAP containing material used.
  - b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
  - c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
  - d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
  - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor and make them available to the Department upon request. **(R 336.1205(3))**

3. The permittee shall keep the following information on a calendar month basis for all exempt equipment (current and future) at the stationary source:
  - a) Gallons or pounds of each VOC containing material used.
  - b) Where applicable, gallons or pounds of each VOC containing material reclaimed.
  - c) VOC content, in pounds per gallon or pounds per pound, of each VOC containing material used.
  - d) VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - e) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205)**

4. The permittee shall keep the following information on a calendar month basis for FG-FACILITY:
- a) Gallons or pounds of each VOC containing material used.
  - b) Where applicable, gallons or pounds of each VOC containing material reclaimed.
  - c) VOC content, in pounds per gallon or pounds per pound, of each VOC containing material used.
  - d) VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - e) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA