Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
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Frankfort, Kentucky 40601
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Final

AIR QUALITY PERMIT
Issued under 401 KAR 52:020

Permittee Name:	**Greif Industrial Packaging & Service**
Mailing Address:	**366 Greif Parkway, Delaware, OH 43015**
Source Name:	**Greif Industrial Packaging & Service**
Mailing Address:	**366 Greif Parkway, Delaware, OH 43015**
Source Location:	**7425 Industrial Road, Florence, KY 41042**
Permit Number:	**V-06-031**
Source A. I. #:	**272**
Activity #:	**APE20050002**
Review Type:	**Title V**
Source ID #:	**21-015-00010**
Regional Office:	**Florence Regional Office** **8020 Veterans Memorial Dr. Suite 110** **Florence, KY 41042** **(859) 525 - 4923**
County:	**Boone**
Application Complete Date:	**December 2, 2005**
Issuance Date:	**December 20, 2006**
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John S. Lyons, Director
Division for Air Quality

Revised 12/09/02

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	Permit type	**Log or Activity#**	**Complete Date**	**Issuance Date**	**Summary of Action**
V-99-031	**Initial Issuance**	**F459**	**02/13/1998**	**August 24, 2000**	**Initial Operating Permit**
V-06-031	**Renewal**	**APE20050002**	**12/02/2005**	**---**	**Permit Renewal**

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Emission Point # 01 (SO1, SO2, SO3, SO4 and SO6)

Description: This emission point includes

1. **Drum Shell Lining Booth:** This spray booth uses airless spray guns and is equipped with a set of filters. Estimated filter efficiency is 90%.
   Date installed: 1969.
2. **Lining Oven:** Natural gas fired lining oven with a rated capacity of 4.8 mmBtu/hr. Manufacturer: Young and Berk.
   Date installed: 1969.
3. **Drum Paint Booth:** This paint spray booth uses airless spray guns and is equipped with water washed tunnels with an efficiency of 90%.
   Date installed: 1969.
4. **Paint Oven:** Natural gas fired drum paint oven with rated capacity of 7.1 mmBtu/hr.
   Manufacturer: Young Brothers. Date installed: 1969.
5. **Drum seamer**. Date installed 1969.

APPLICABLE REGULATIONS:

401 KAR 61:132, Existing miscellaneous metal parts and products surface coating operations applicable to unit commenced before February 4, 1981.

401 KAR 61:020, Existing process operation applicable to affected facilities or source associated with process operation with commenced before July 2, 1975.

40 CFR 63, Subpart MMMM-National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

1. **Operating Limitations:** See group requirements

2. **Emission Limitations:** See group requirements

3. **Testing Requirements:** See group requirements

4. **Specific Monitoring Requirements:** See group requirements

5. **Specific Record keeping Requirements:** See group requirements

6. **Specific Reporting Requirements:** See group requirements

7. **Specific Control Equipment Operating Conditions:**

a. *Drum Shell Lining Spray Booth:* The permittee shall operate dry filters to control particulate matter as specified in paragraph a.1 through 3 of this section.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

1. Filters shall be in place at all times when the machine is applying paint.
2. Filters shall be replaced when determined to be inefficient (as determined through visual inspection).
3. The unit shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

b. *Drum Paint Booth*: The permittee shall operate water tunnel to control particulate matter as specified in paragraph b.1 and 2 of this section.

1. Water supply pressure to the nozzles shall be maintained as specified by the manufacturer at all time when spray booth operations are taking place.
2. Nozzles shall be kept cleaned as often as needed to comply with the emission limitations.

8. **Alternate Operating Scenarios:** None

9. **Compliance Schedule:** None

10. **Compliance Certification Requirements:** See Section F (9)

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Point # 02 (SO7, SO8 and SO10)

Description:

1. **Drum Parts Spray Booth:** The spray booth uses airless spray guns and is equipped with exhaust filters.
   Date installed: 1969.
2. **Drum Parts Oven:** A natural gas fired drum parts oven of capacity 2.3 mmBtu/hr.
   Manufacturer: Young and Berk. Date installed: 1969.

APPLICABLE REGULATIONS:

401 KAR 61:132, Existing miscellaneous metal parts and products surface coating operations applicable to unit commenced before February 4, 1981.

401 KAR 61:020, Existing process operation applicable to each affected facility or source, associated with a process operation which commenced before July 2, 1975.

40 CFR 63, Subpart MMMM-National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

1. **Operating Limitations:** See group requirements

2. **Emission Limitations:** See group requirements

3. **Testing Requirements:** See group requirements

4. **Specific Monitoring Requirements:** See group requirements

5. **Specific Record keeping Requirements:** See group requirements

6. **Specific Reporting Requirements:** See group requirements

7. **Specific Control Equipment Operating Conditions:**
The permittee shall operate dry filters to control particulate matter as specified in paragraph 7.a through c of this section.

a. Filters shall be in place at all times when the machine is applying paint.
b. Filters shall be replaced when determined to be inefficient (as determined through visual inspection).
c. The unit shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

8. **Alternate Operating Scenarios:** None

9. **Compliance Schedule:** None

10. **Compliance Certification Requirements:** See Section F (9)

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Group Requirements
Emission Points: EP 01 and EP 02

1. Emission Limitations:

401 KAR61:020, Existing process operations, each spray booth and oven

a. Section 3(2): Particulate matter emissions shall not exceed 2.58 lb/hr

Compliance Demonstration Method:
Compliance with the mass emission limit is assumed when the filter and water tunnel systems control the emissions of particulate matter and are operated properly in accordance with manufacturer's specifications and/or standard operating procedures as approved by the Division.

b. Section 3(1): Visible emissions shall not equal or exceed 40% opacity.

Compliance Demonstration Method:
If deemed necessary, the Cabinet shall require testing in accordance with 40 CFR 60 Appendix A, Method 9.

c. Total actual emissions of Volatile Organic Compounds (VOCs) shall be less than 99 tons per year based on a 12 month rolling total for the entire plant.

Compliance Demonstration Method:

Actual VOC emissions = $\sum_{i=1}^{n} M_i \rho_i$

Where,
ρ = weight percent of VOC in each solvent containing material less water and /or exempt solvent
i = individual solvent containing material (paint, thinner, cleaner, coating, etc.)
n = total number of solvent containing material used
M = Pounds of solvent containing material "i" used

d. 401 KAR 61:132, Section 6 states that an affected facility shall be exempt from Section 3 of this administrative regulation if the VOC content of the coating is:

1. Less than 4.3 lb/gal, excluding water or exempt solvent or both, delivered to the applicators associated with clear coat;

2. Less than 3.5 lb/gal of coating, excluding water or exempt solvent or both, delivered to applicators associated with air or forced air-dried items or items subject to outdoor or harsh exposure or extreme environmental conditions;

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Less than 3.0 lb/gal, excluding water or exempt solvent or both, delivered to the applicators associated with color coat or first coat on untreated ferrous substrate.

Compliance demonstration method:
The permittee shall keep daily records of all coating and solvent materials used at each affected facility in addition to the VOC content of each material used, and any calculations necessary to demonstrate exemption from the emission limit of 401 KAR 61:132, Section 6.

2. Testing Requirements:
If deemed necessary by the cabinet, the cabinet shall obtain samples of the coatings used at an affected facility to verify that the coatings meet the requirements in Section 6 of this administrative regulation. Appendix A to 40 CFR 60, Method 24, which has been incorporated by reference in 401 KAR 50:015, shall be used as applicable to determine compliance of the coatings unless the cabinet and the EPA determine that other methods would be more appropriate. [401 KAR 61:132 Section 4(4)]

3. Specific Record Keeping Requirements:

a. The permittee shall keep daily records of usage and VOC and HAP contents of painting, lining materials and solvents at the source and summarize those records at the end of each month. The permittee shall calculate total actual emissions of VOCs and HAPs from the source for each month in tons per month units. The basis of the calculations shall be the actual usage and VOC and HAP contents of painting, lining material and solvents at the facility during that month. The permittee shall also keep records of twelve (12) months rolling total for VOCs and HAPs emissions at the source each month. All the above mentioned records, and purchase orders and invoices for materials containing VOCs and HAPs shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.

b. Daily records shall be maintained by the source for five years. These records shall be made available to the cabinet or the USA EPA upon request.

4. Specific Monitoring Requirements:
See compliance demonstration methods under emission limitations. Also see specific record keeping requirement.

5. Specific Reporting Requirements:
VOC emissions shall not exceed 99 tons during any consecutive twelve (12) month period. Monthly records to demonstrate compliance with this limitation shall be maintained and total VOC emissions shall be reported on a semi-annual basis. VOC emissions shall be calculated and recorded on a *monthly* basis. These records shall be summarized in tons per month of VOC emissions; subsequently,

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

tons of VOC emissions per rolling twelve-month period shall be recorded. In addition, these records shall demonstrate compliance with the VOC emission limitations listed herein for the conditional major limitations. These records shall be maintained on site for a period of five years from the date the data was collected and shall be readily available.

If total VOC emissions during any twelve-month period exceed 90 tons, the permittee will begin tracking annual emissions on a weekly basis beginning the following calendar month. Emissions will be tracked in this manner for three consecutive months, and monthly reports shall be submitted to the Florence Regional Office. If the rolling twelve-month totals remain less than 90 tons for three consecutive months, the permittee may return to monthly tracking and semi-annual reporting until such time as emissions may again exceed 90 tons for a rolling twelve-month total.

Note: weekly tracking will be accomplished by recalculating each of the applicable month's emissions from the prior year from a monthly total to weekly totals, and compared with the weekly totals from the same week of the current year. For the purposes of this tracking, each month shall be broken down into 4 weeks as follows:

Week 1. Day 1 thru day 7
Week 2. Day 8 thru day 14
Week 3. Day 15 thru day 21
Week 4. Day 22 thru day 31

6. NESHAP Requirements:

40 CFR 63: Subpart MMMM, National Emission Standard for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products.

§63.3890. *Allowable emission limit.* As an existing affected source, the permittee shall limit organic HAP emissions to the atmosphere no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.

§63.3891: *Options for meeting the emission limits.* The permittee shall include all coatings (as defined in §63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the allowable emission limit. To make this determination, the permittee shall use at least one of the three compliance options: *compliant material, emission rate without add-on control and emission rate with add-on control*.

Primary Operating Scenario:

§63.3891(b). *Emission rate without add-on controls option.* The permittee shall demonstrate that, based on the coatings, thinners and/or other additives, and

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

cleaning materials used in the coating operations, the organic HAP emission rate for the coating operations is less than or equal to allowable limit, calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee shall meet all the requirements of §§63.3950, 63.3951, and 63.3952 to demonstrate compliance with the allowable emission limit using this option.

§63.3951. *Compliance Demonstration Methods*. The permittee shall demonstrate initial compliance using emission rate, the coating operations must meet the allowable organic HAP emission limit by following procedures:

§63.3951(a). *Determine the mass fraction of organic HAP for each material.* Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month.

§63.3951(b). *Determine the volume fraction of coating solids.* Determine the volume fraction of coating solids gal of coating solids per gal of coating for each coating used during each month.

§63.3951(c). *Determine the density of each material.* Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month. Do not determine material density in case of purchase materials or monitor consumption is done by weight. Instead, use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

§63.3951(d). *Determine the volume of each material used.* Determine the volume of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. Do not determine volume of each material used in case the purchase materials or monitor consumption is done by weight. Instead, use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, and 1C of this section.

§63.3951(e). *Calculate the mass of organic HAP emissions.* The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e = A + B + C - R_w$$

Where:
H_e = Total mass of organic HAP emissions during the month, lb.
A = Total mass of organic HAP in the coatings used during the month, lb, as calculated in Equation 1A of this section.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

B = Total mass of organic HAP in the thinners and/or other additives used during the month, lb, as calculated in Equation 1B of this section.
C = Total mass of organic HAP in the cleaning materials used during the month, lb, as calculated in Equation 1C of this section.
R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF during the month, lb, determined according to paragraph (e)(4) of this section.

(1) Calculate the lb organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = \sum_{j=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \qquad \text{Equation 1A}$$

Where:
A = Total mass of organic HAP in the coatings used during the month, lb.
$Vol_{c,i}$ = Total volume of coating, i, used during the month, gallons.
$D_{c,i}$ = Density of coating, i, lb coating per gallon coating.
$W_{c,i}$ = Mass fraction of organic HAP in coating, i, lb organic HAP per lb coating.
m = Number of different coatings used during the month.

(2) Calculate the lb of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

$$B = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \qquad \text{Equation 1B}$$

Where:
B = Total mass of organic HAP in the thinners and/or other additives used during the month, lb.
$Vol_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, gallons.
$D_{t,j}$ = Density of thinner and/or other additive, j, lb per gal.
$W_{t,j}$ = Mass fraction of organic HAP in thinner and/or other additive, j, lb organic HAP per lb thinner and/or other additive.
n = Number of different thinners and/or other additives used during the month.

(3) Calculate the lb organic HAP in the cleaning materials used during the month using Equation 1C of this section:

$$C = \sum_{k=1}^{y} (Vol_{s,k})(D_{s,k})(W_{s,k}) \qquad \text{Equation 1C}$$

Where:
C = Total mass of organic HAP in the cleaning materials used during the month, lb.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

$Vol_{s,k}$ = Total volume of cleaning material, k, used during the month, gallons.
$D_{s,k}$ = Density of cleaning material, k, lb per gallon.
$W_{s,k}$ = Mass fraction of organic HAP in cleaning material, k, lb organic HAP per lb material.
p = Number of different cleaning materials used during the month.

(4) In case the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of this section, determine the mass according to paragraphs (e)(4)(i) through (iv) of this section.

(i) Include only waste materials in the determination that are generated by coating operations in the affected source for which you use Equation 1 of this section and that will be treated or disposed of by a facility that is regulated as a TSDF. Do not include organic HAP contained in wastewater.

(ii) Determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF.

(iii) Determine the total mass of organic HAP contained in the waste materials specified in paragraph (e)(4)(ii) of this section.

(iv) Document the methodology you use to determine the amount of waste materials and the total mass of organic HAP they contain, as required in §63.3930(h).

§63.3951(f). *Calculate the total volume of coating solids used.* Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$V_{st} = \sum_{i=1}^{m} (Vol_{c,i})(V_{s,i}) \qquad \text{Equation 2}$$

Where:
V_{st} = Total volume of coating solids used during the month, gallons.
$Vol_{c,i}$ = Total volume of coating, i, used during the month, gallons.
$V_{s,i}$ = Volume fraction of coating solids for coating, i, gallons solids per gallons coating, determined according to §63.3941(b).
m = Number of coatings used during the month.

§63.3951(g). *Calculate the organic HAP emission rate.* Calculate the organic HAP emission rate for the compliance period, lb organic HAP emitted per gal coating solids used, using Equation 3 of this section:

$$H_{yr} = \frac{\sum_{y=1}^{n} H_e}{\sum_{y=1}^{n} V_{st}} \qquad \text{Equation 3}$$

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Where:
H_{yr} = Average organic HAP emission rate for the compliance period, lb organic HAP emitted per gallon coating solids used.
H_e = Total mass of organic HAP emissions from all materials used during month, y, lb, as calculated by Equation 1 of this section.
V_{st} = Total volume of coating solids used during month, y, gallons, as calculated by Equation 2 of this section.
y = Identifier for months.
n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

§63.3952**.** *Continuous compliance demonstration.* To demonstrate continuous compliance, the organic HAP emission rate for each compliance period must be less than or equal to the allowable emission limit. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3950 is the end of a compliance period consisting of that month and the preceding 11 months. The permittee shall perform the calculations in §63.3951(a) through (g) on a monthly basis using data from the previous 12 months of operation.

§63.3952(b). If the organic HAP emission rate for any 12-month compliance period exceeded the allowable emission limit, this is a deviation from the emission limitation for that compliance period and must be reported.

§63.3952(c). As part of each semiannual compliance report required by §63.3920, identify the coating operations for which you used the emission rate without add-on controls option. If there were no deviations from the emission limitations, submit a statement that the coating operations were in compliance with the emission limitations during the reporting period.

§63.3930. *Record Keeping requirements.* The permittee shall collect and keep records of the data and information specified in this section.

§63.3930(a). A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.

§63.3930(b). A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating.

§63.3930(c). For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

(1) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.
(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of §63.3941.
(3) A record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2; and, if applicable, the calculation used to determine mass of organic HAP in waste materials; the calculation of the total volume of coating solids used each month using Equation 2; and the calculation of each 12-month organic HAP emission rate using Equation 3.

§63.3950. *Initial Compliance Date.* The permittee shall complete the initial compliance demonstration according to the requirements of §63.3951 by February 1, 2007. Determine the mass of organic HAP emissions and volume of coating solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the calculations and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than organic HAP emission limit of 2.6 lb per gallon of coating solids.

§63.3920(a). *Semiannual compliance reports.* The permittee shall submit semiannual compliance reports for each affected source as follow:

§63.3920(a)(1). *Dates.* The permittee shall prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) and (ii) of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.
(ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

§63.3920(a)(3). *General requirements.* The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (vii) of this section:
(i) Company name and address.
(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(iv) Identification of the compliance option specified in §63.3891.

(v) The calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

§63.3920(a)(4). *No deviations.* If there were no deviations from the emission limitations, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.

7. **Alternate Operating Scenario**:

For alternate compliance method under NESHAP, See Section H

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

Description	Generally Applicable Regulation
Silk Screen	NA

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. Source-wide VOC emissions shall be less than 99 tons per rolling 12-month period. For compliance demonstration method, see Group requirements in Section B.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

   Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

2. Pursuant to 401 KAR 50:012, Section 1(1), in the absence of the specified regulatory standard, all air contaminant sources shall as a minimum apply control procedures that are reasonable, available, and practical.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
    a. Date, place as defined in this permit, and time of sampling or measurements;
    b. Analyses performance dates;
    c. Company or entity that performed analyses;
    d. Analytical techniques or methods used;
    e. Analyses results; and
    f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
    a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
    b. To access and copy any records required by the permit:
    c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

    Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b(V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
    a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
    b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall *be included in the semiannual report required by Section F.6* [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
    a. Identification of the term or condition;
    b. Compliance status of each term or condition of the permit;
    c. Whether compliance was continuous or intermittent;
    d. The method used for determining the compliance status for the source, currently and over the reporting period.
    e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Florence Regional Office
8020 Veterans Memorial Dr.
Suite 110
Florence, KY 41042

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION G - GENERAL PROVISIONS (CONTINUED)

5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].

11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].

15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
    a. Applicable requirements that are included and specifically identified in the permit and
    b. Non-applicable requirements expressly identified in this permit.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements
None

(e) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   a. An emergency occurred and the permittee can identify the cause of the emergency;
   b. The permitted facility was at the time being properly operated;
   c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
   e. This requirement does not relieve the source of other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

SECTION G - GENERAL PROVISIONS (CONTINUED)

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515.

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
   e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

SECTION H - ALTERNATE OPERATING SCENARIOS

NESHAP Requirements:

§63.3891(a). *Compliant material option.* Demonstrate that the organic HAP content of each coating used in the coating operations is less than or equal to the applicable emission limit 2.6 lb per gallon of coating solids used during 12-month compliance period, and that each thinner and/or other additive, and cleaning material used contains no organic HAP.

§63.3940. *Initial compliance Date.* The permittee shall complete the initial compliance demonstration for the initial compliance period according to the requirements in §63.3941. The initial compliance period begins on compliance date January 2, 2007 and ends on February 2, 2008.

§63.3941. *Initial compliance with the emission limitations.* To demonstrate initial compliance using the compliant material option, the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limits 2.6 lb per gallon of coating solids and must use no thinner and/or other additive, or cleaning material that contains organic HAP as determined according to this section. Any coating operation for which you use the compliant material option is not required to meet the operating limits or work practice standards required in §§63.3892 and 63.3893, respectively.

§63.3941(a). *Determine the mass fraction of organic HAP for each material used.* You must determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in paragraph (a)(1) through (5) of this section.

§63.3941(b). *Determine the volume fraction of coating solids for each coating.* You must determine the volume fraction of coating solids (gal of coating solids per gal of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in paragraphs (b)(1) through (4) of this section.

§63.3941(c). *Determine the density of each coating.* Determine the density of each coating used during the compliance period from test results using ASTM Method D1475–98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see §63.14), information from the supplier or manufacturer of the material, or specific gravity data for pure chemicals.

§63.3941(d). *Determine the organic HAP content of each coating.* Calculate the organic HAP content, lb of organic HAP emitted per gal coating solids used, of each coating used during the compliance period using Equation 2 of this section:

$$H_c = \frac{(D_c)(W_c)}{V_s} \qquad (Eq.\ 2)$$

SECTION H - ALTERNATE OPERATING SCENARIOS (CONTNUED)

Where:
H_c = Organic HAP content of the coating, lb organic HAP emitted per gal coating solids used.
D_c = Density of coating, lb coating per gal coating, determined according to paragraph (c) of this section.
W_c = Mass fraction of organic HAP in the coating, lb organic HAP per lb coating, determined according to paragraph (a) of this section.
V_s = Volume fraction of coating solids, gal coating solids per gal coating, determined according to paragraph (b) of this section.

§63.3941(e). *Compliance demonstration.* The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit, and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP. As part of the notification of compliance status required in §63.3910, you must identify the coating operations for which you used the compliant material option and submit a statement that the coating operations were in compliance with the emission limitations during the initial compliance period.

§63.3942. *Continuous compliance with the emission limitations.* The permittee shall comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in §63.3942(a) is a deviation from the emission limitations that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(5).

§63.3942(c). *Semiannual compliance report.* As part of each semiannual compliance report required by §63.3920, you must identify the coating operations for which you used the compliant material option. If there were no deviations from the applicable emission limit, submit a statement that the coating operations were in compliance with the emission limitations during the reporting period.

§63.3930. *Record keeping.* You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

§63.3930(a). A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.

§63.3930(b). A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating.

SECTION H - ALTERNATE OPERATING SCENARIOS (CONTNUED)

§63.3930(c). For each compliance period, the records specified in paragraphs (c)(1) and (2) of this section.

(1) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.
(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating.

§63.3930(d). For compliant material option for all coatings at the source, you may maintain purchase records for each material used.

§63.3930(e). A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight.

§63.3930(f). A record of the volume fraction of coating solids for each coating used during each compliance period.

§63.3930(j). You must keep records of the date, time, and duration of each deviation.

63.3931(a). Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

63.3931(b). As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

SECTION I - COMPLIANCE SCHEDULE

NA