



PART 70 PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

Operating Permit Number: OP2011-022
Expiration Date: MAY 22 2016
Installation ID: 165-2415
Project Number: 2009-10-050

Installation Name and Address

Harley-Davidson Motor Company Operations, Inc.
11401 North Congress
Kansas City, MO 64153
Platte County

Parent Company's Name and Address

Harley-Davidson Motor Company Group, LLC
3700 Juneau Avenue
Milwaukee, WI 53201

Installation Description:

The Harley-Davidson Motor Company Operations, Inc. vehicle assembly and power train operations installation manufactures motorcycles in an ozone maintenance area. The installation fabricates steel tanks, frames and fenders using processes that include metal stamping/bending, polishing, cutting, burnishing and welding. The metal parts are prepared for painting on a metal pretreatment line and are painted using electrocoat/electrodeposition, electrostatic wet spray, and powder painting processes. The facility is considered Major for Volatile Organic Compounds (VOC) and a synthetic minor for Hazardous Air Pollutants (HAP).

MAY 23 2011

Effective Date

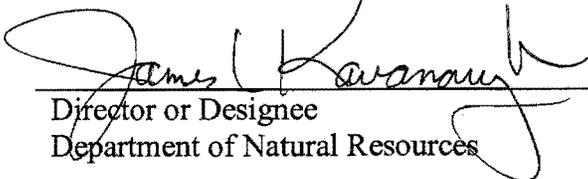

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

The Harley-Davidson Motor Company Operations, Inc. facility is a large manufacturer of motorcycles. The installation fabricates steel tanks, frames and fenders using processes that include metal stamping/bending, polishing, cutting, burnishing and welding. The metal parts (tanks, fenders and frames) are prepared for painting on a metal pretreatment line and are coated using electrocoat/electrodeposition primer coats (Ecoat Line), electrostatic wet spray base coats (main (Wet 1) and secondary (Wet 2) metal wet spray coating lines), and powder painting processes (frame powder line and the tank & fender powder paintline). Air emissions from the installation consist primarily of volatile organic compounds (VOC's) and hazardous air pollutants (HAP's), which are controlled using a natural gas-fired regenerative carbon concentrator (RCC)/horizontal thermal oxidizer (HTO) system (Abatement System). The abatement system consists principally of an inlet filter to capture particulate matter (PM), two (2) RCC's and an HTO.

Exhaust air from the main (Wet 1) and secondary (Wet 2) spray booths is ducted through an integrated water wash system on each booth that intercepts the paint overspray, thus reducing the PM concentration in the spray booth exhaust streams. Following the water wash system, the exhaust streams pass through the abatement system inlet filter bank (consisting of four filtration stages) and an RCC before being emitted to the atmosphere. VOC's adsorbed in the RCC's are desorbed, with the desorption stream passing to the HTO. The main(Wet 1) and secondary (Wet 2) paint curing ovens' exhaust and the Ecoat curing oven exhaust are also ducted directly to the RCCs. Natural gas-fired units at the installation produce heat for various purposes. A 1,000 gallon above-ground gasoline storage tank stores fuel for assembled motorcycle rolltesting and occasional engine testing. The facility is considered Major for Volatile Organic Compounds (VOC) and a synthetic minor for Hazardous Air Pollutants (HAP).

Reported Air Pollutant Emissions (tons per year)					
Pollutants	2010	2009	2008	2007	2006
Particulate Matter \leq Ten Microns (PM ₁₀)	0.46	0.41	0.75	0.75	0.70
Particulate Matter \leq 2.5 Microns (PM _{2.5})	0.46	0.41	0.82	0.83	0.77
Sulfur Oxides (SO _x)	0.04	0.03	0.06	0.07	0.06
Nitrogen Oxides (NO _x)	5.90	5.31	9.57	9.71	9.02
Volatile Organic Compounds(VOC)	13.40	12.10	16.41	26.90	24.23
Carbon Monoxide (CO)	3.99	3.59	6.42	12.13	6.07
Lead (Pb)	0.00	0.00	0.00	0.00	0.00
Hazardous Air Pollutants (HAPs)	7.01	5.09	6.07	4.54	6.65
Ammonia (NH ₃)	0.81	0.73	1.29	1.29	1.22

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit	Emission Point #
EU0010	Main (Wet 1) spray paint line	EP-07
EU0020	Main (Wet 1) spray paint paper pull/ambient flash-off zone	EP-07
EU0030	Main (Wet 1) spray paint IR flash-off zone	EP-07
EU0040	Main (Wet 1) spray paint curing oven	EP-07
EU0050	Finesse Parts Paint (Pin-stripe, silk screen, decal)	EP-09
EU0060	Secondary (Wet 2) spray paint line	EP-08
EU0070	Secondary (Wet 2) spray paint paper pull/ambient flash-off zone	EP-08
EU0080	Secondary (Wet 2) spray paint IR flash-off zone	EP-08
EU0090	Secondary (Wet 2) spray paint curing oven	EP-07
EU0100	Main (Wet 1) Touch-up/Repair Booth	EP-07
EU0110	V-Rod Frame(Wet 2) Touch-up/Repair Booth	EP-07
EU0120	Four (4) Metal Parts Cold Cleaners	EP-06
EU0130	One (1) above-ground 1,000-gallon gasoline storage tank	EP-11
EU0140	Natural gas-fired, IC emergency generator (100 kW)	EP-14
EU0150	Natural gas-fired, IC emergency generator (35 kW)	EP-15
EU0160	Diesel fuel-fired, IC emergency generator (250 kW)	EP-16
EU0170	Diesel fuel-fired, IC emergency engine (79 kW)	EP-18

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit-specific limitations at the time of permit issuance.

Description of Emission Source	Emission Point
9.5 MMBtu Natural Gas-fired Boiler A (1997)	EP-01
9.5 MMBtu Natural Gas-fired Boiler B (1997)	EP-02
Natural gas-fired comfort heating units (19.7 MMBtu total)	EP-03
Natural gas-fired air supply house heaters (9.6 MMBtu total)	EP-04
Miscellaneous Paint and Cleaning Fugitive Emissions	EP-10
Dyno Cell Engine Testing	EP-12
Motorcycle Rolltesting	N/A
1000 Gallon above Ground Diesel Storage Tank	N/A
170 Gallon above Ground Diesel Storage Tank	N/A

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

- 1) Kansas City Health Department Construction Permit 982 (Main/secondary (Wet 1 and Wet 2) metal wet spray booths, Cold cleaners, AST's, Ovens, Generators, RCC/HTO)
- 2) Kansas City Health Department Construction Permit 1014A (Main(Wet 1) Touch-up/Repair Paint Booth)
- 3) Kansas City Health Department Construction Permit 1026 (V-Rod Frame (Wet 2) Touch-up/Repair Paint Booth)

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

PERMIT CONDITION PW001

10 CSR 10-6.060 Construction Permits Required
 Kansas City Health Department Construction Permit 982

Emission Limitation:

The permittee shall not emit more than the following amount of pollutants in any consecutive 12-month period: [[Special Condition 1\(c\)](#)]

<u>Pollutant</u>	<u>Emissions (tons/year)</u>
PM ₁₀	5.0
SO _x	3.0
NO _x	30.0
VOC	137.0
CO	50.0
HAP (any single HAP)	9.9 (Voluntary Limit)
HAP (total HAPs)	24.9 (Voluntary Limit)

Monitoring/Record Keeping:

- 1.) In order to determine compliance with the Emission Limitation (Item 1(c) from Kansas City Health Department Construction Permit 982), Facility Wide Emission Limits, Harley-Davidson Motor Company Operations, Inc., shall complete Attachment Q (Worksheet B from Kansas City Health Department Construction Permit 982), or equivalent form, for each production month. [[Special Condition 4\(b\) of Construction Permit 982](#)]
- 2.) In order to determine compliance with the Installation-Wide VOC and HAP Emission Limits, the permittee shall:
 - a) Compute each production day's coating VOC emissions (use Attachment A or equivalent form);
 - b) The permittee shall use Attachment F, or an equivalent form, (either in written or electronic form) to maintain records of the amount total HAPs emitted monthly and the total emissions for the previous 12-month rolling period.
 - c) The permittee shall use Attachment G, or an equivalent form, (either in written or electronic form) to maintain records of the amount of individual HAP (Methyl Isobutyl Ketone, Toluene, Xylene) emitted monthly and the total emissions for the previous 12-month rolling period of the individual HAP.
 - d) Record each month's total VOC and the rolling 12-month period on a summary form (use Attachment D or equivalent form). The 12-month VOC potential-to-emit of all non-coating emission sources may be added to coating VOC emissions each month in lieu of actual non-coating VOC emission estimates;
- 3.) In order to determine compliance with the PM₁₀, SO_x, NO_x, and CO Installation-Wide 12-month emission limits, the permittee shall estimate monthly the emissions of these pollutants from the non-

coating emission sources for the 12-month period that includes the most recent month (use Attachment E or equivalent form). If the plant-wide potential-to-emit any of these pollutants (PM₁₀, SO_x, NO_x, and CO) is less than the plant-wide emission limit, the permittee may keep permanently on file computations of the non-coating sources' annual potential-to-emit for that pollutant in lieu of actual 12-month emission estimates. Emission computations required by this paragraph shall be performed using either the most recent AP-42 emission factors or emissions test data. Each month, the permittee shall record the installation-wide 12-month emissions of each pollutant for which there is a plant-wide annual emission limit (use Attachment F or equivalent form).

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108 and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

PERMIT CONDITION PW002

10 CSR 10-6.060 Construction Permits Required
 Kansas City Health Department Construction Permit 982

Emission Limitation:

Harley-Davidson Motor Company Operations, Inc. shall not emit any hazardous air pollutant (HAP) in an amount that causes the off-property concentration to exceed the levels indicated in the allowable ambient air level (AAL) listing issued January 25, 1996. [[Special Condition 1\(d\) of Construction Permit 982](#)]

The referenced HAP AAL listing is shown below:

Missouri Department of Natural Resources
HAP Acceptable Ambient Levels (AAL)

Chemical	CAS	24-hr AAL	24-hr AAL Units	24-hr AAL Source	Annual AAL	Annual AAL Units
Toluene	108-88-3	400	µg/m ³	Missouri DOH	20	µg/m ³
Xylene	1330-20-7	250	µg/m ³	Missouri DOH	11.8	µg/m ³

Monitoring/Record Keeping:

The permittee shall keep on-site and available for review a copy of the HAP emissions modeling report that demonstrates that the installation complies with this requirement. The report is entitled, *Harley-Davidson Motor Company Kansas City Assembly Plant Air Toxics Analysis*, Gradient Corporation, Ann Arbor, Michigan. July 24, 1996. Project No. 768101. The report shall be made available for review and

inspection upon verbal request by personnel from the Kansas City, Missouri Air Quality Program or the Missouri Department of Natural Resources Air Pollution Control Program's Enforcement Section.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

EU0010 through EU0110			
Main(Wet 1) and Secondary (Wet 2) Wet Spray Lines, Touch-up/Repair Booths			
EU ID	General Description	Manufacturer/Model #	EIQ Reference # (Year)
EU0010	Main (Wet 1) wet spray paint line, an electrostatic coating process with exhaust air ducted through a water wash system to the RCC/HTO	Durr Industries	EP-07; CD-01 (2002)
EU0020	Main (Wet 1) wet spray paper pull/ambient flash-off zone	Durr Industries	EP-07; CD-01 (2002)
EU0030	Main (Wet 1) wet spray IR flash-off zone	Durr Industries	EP-07; CD-01 (2002)
EU0040	Main (Wet 1) wet spray curing oven	Durr Industries	EP-05; CD-01 (2002)
EU0050	Finesse coating area –decorative striping, silk screening, and decals on metal parts, emissions uncontrolled	Various	EP-09; (2002)
EU0060	Secondary (Wet 2) wet spray paint line, an electrostatic coating process with exhaust air ducted through a water wash system to the RCC/HTO	Durr Industries	EP-08; CD-01 (2002)
EU0070	Secondary (Wet 2) wet spray paper pull/ambient flash-off zone	Durr Industries	EP-08; CD-01 (2002)
EU0080	Secondary (Wet 2) wet spray IR flash-off zone	Durr Industries	EP-08; CD-01 (2002)
EU0090	Secondary (Wet 2) wet spray curing oven	Durr Industries	EP-05; CD-01 (2002)
EU0100	Main (Wet 1) Touch-up/Repair Booth	Durr Industries	EP-07; CD-01 (2002)
EU0110	Frame (Wet 2) Touch-up/Repair Booth, Emissions Uncontrolled	Durr Industries	EP-07; (2002)

Permit Condition (EU0010 through 0110)-001

10 CSR 10-6.060 Construction Permits Required
 Kansas City Health Department Construction Permit 982; Special Conditions
 Kansas City Health Department Construction Permit 1014A; Special Conditions

Emission Limitation/Operation Limitation:

- 1.) Harley-Davidson Motor Company Group, Inc. shall comply with Missouri State Regulation 10 CSR 10-2.230, *Control of Emissions from Industrial Surface Coating Operations*. Coating applications at

the facility shall comply with Table 10 CSR 10-2.230 (4)(B) limitations. [[Special Condition 1\(b\) of Construction Permit 982](#)]

- 2.) The exhaust from the main (Wet 1) wet spray line ([EU0010](#)), secondary (Wet 2) wet spray line ([EU0060](#)), their associated paper pull/ambient flash off zones ([EU0020 and EU0070 for paper pull and EU0030 and EU0080](#) for flash off zones), and the IR Flash-off zone Oven ([EU0040 and EU0090](#)) shall be vented to the Rotary Carbon Concentrators (RCCs). The desorption stream from the RCCs and the exhaust from the curing ovens shall be ducted to the Horizontal Thermal Oxidizer (HTO). The RCCs shall be maintained according to manufacturer's specifications. [[Special Condition 3\(a\) of Construction Permit 982](#)]
- 3.) Particulate matter, from the main (Wet 1)/secondary (Wet 2) wet spray lines ([EU0010 and EU0060](#)), and their associated paper pull/ambient flash off zones ([EU0020, EU0030, EU0070 and EU0080](#)) shall be removed by the spray lines' water wash PM control equipment. The water pumps shall be operating at all times that the spray lines are being used for coating. [[Special Condition 3\(b\) of Construction Permit 982](#)]
- 4.) The combustion chamber of the HTO shall be equipped with a type K or other nickel-chromium alloy thermocouple and recording device that indicates the operating temperature. The recorder shall provide a circular chart record of the combustion chamber temperature. The temperature measurement device shall be installed, calibrated and maintained according to the manufacturer's specifications. The device shall have an accuracy the greater of plus/minus 0.75 percent of the temperature being measured expressed in degrees Celsius or plus/minus 2.5 degrees Celsius. The circular chart-recording device shall remain as a permanent part of the HTO. Until such time as the minimum average combustion temperature necessary to achieve the required destruction efficiency in Item 6 (Construction Permit 982) is determined, the HTO shall maintain a minimum average temperature of 1400°F within the combustion chamber. The desorption stream from the RCCs, main (Wet 1) wet spray line, secondary (Wet 2) wet spray line/cure oven exhausts, (no longer do plastic, this is the same as Wet 2 paint line), and E-coat cure oven exhaust shall be vented to the HTO. The HTO shall be operating whenever any of the controlled sources are in use. [[Special Condition 3\(c\) of Construction Permit 982](#)]
- 5.) All particulate control systems at the facility shall be maintained according to manufacturer's specifications. The four-stage particulate filter (filter cubes) upstream of the RCC's shall be equipped with gauges to monitor the differential pressure drop. Spare filter cubes must be kept at the H-D Kansas City facility (or other similar proximate location within 24-hr turnaround) for emergency or maintenance purposes. Harley-Davidson Motor Company Operations Inc. shall record the four stage particulate filter system pressure gauge reading at least once per month. [[Special Condition 3\(d\) of Construction Permit 982](#)]
- 6.) Harley-Davidson Motor Company Operations, Inc. shall keep a maintenance log for all air pollution control equipment, indicating time and date maintenance is performed. [[Special Condition 3\(e\) of Construction Permit 982](#)]
- 7.) Harley Davidson Motor Company Operations Inc. shall capture and route the emissions from the Main (Wet 1) "touch-up/repair" coating operations booth ([EU0100](#)), to the existing VOC control equipment for the wet spray line (HTO) only when the wet spray line (Wet 1 and Wet 2) is not in operation. Finesse line ([EU0050](#)) (pinstriping, silk screening, and decal) emissions will always be averaged (daily volume-weighted) with either the abated wet spray line (Wet 1 or Wet 2) or abated Wet 1 repair/touch-up emissions.
- 8.) Harley-Davidson Motor Company Operations Inc. shall demonstrate a minimum control efficiency (from the Wet 1 touch-up/repair booth) of 75 percent if the inlet VOC concentration is greater than or equal to 200 ppmv. In lieu of meeting the 75 percent DRE, if the inlet concentration is less than

200 ppmv, the outlet concentration may not exceed 20 ppmv as propane. Harley Davidson Motor Company Operations Inc. shall follow the test methods referenced in Monitoring/Emissions Testing #1 through #5. [\[Special Condition 2 of Construction Permit 1014A\]](#)

Monitoring/Emissions Testing:

- 1.) Harley-Davidson Motor Company Operations, Inc. shall conduct periodic testing of the HTO from the date of the last test on July 18, 2001, to determine its control efficiency. Each subsequent test of the HTO shall be conducted no more than three years after the date of the most recent prior test. The Harley-Davidson Motor Company Operations, Inc. shall schedule a pre-test meeting with the Air Quality Program at least 30 days prior to each test date. The State of Missouri Department of Natural Resources and the United States Environmental Protection Agency shall be afforded the opportunity to attend the pre-test meeting and the actual test. The test methods used for the following tests shall follow the methods outlined in Kansas City Health Department Construction Permit 982. This pre-test meeting shall be held at the Air Quality Program Offices at 2400 Troost Avenue, Suite 3000, Kansas City, MO. [\[Special Condition 6\(a\) of Construction Permit 982\]](#)
- 2.) The purpose of the test is to verify the overall VOC control efficiency of the Durr Industries Rotary Carbon Concentrators/HTO system. This test shall conform to the requirements of 40 CFR Part 60, Appendix A, Method 1, for sample and velocity traverses, Method 2 for velocity and volumetric flow rate, Method 3 for gas analysis, Method 4 for stack gas moisture, Method 18 or other method approved by U.S. EPA for determining methane, and Method 25a for the determination of total gaseous non-methane organic emissions as propane. The test results shall demonstrate a minimum control efficiency of 90 percent for the HTO, if the inlet VOC concentration is at least 200 ppmv, as determined by averaging the three runs. If the inlet VOC concentration is less than 200 ppmv, the outlet concentration shall not exceed 20 ppmv as propane. All references to ppmv as propane excluded methane, as measured by U.S. EPA Method 18 or other approved by U.S. EPA. [\[Special Condition 6\(b\) of Construction Permit 982\]](#)
- 3.) The average combustion chamber temperature necessary to achieve the HTO control efficiency of 90 percent shall be determined if the inlet VOC concentration is equal to or greater than 200 ppmv. [\[Special Condition 6\(c\) of Construction Permit 982\]](#)
- 4.) The emissions test shall begin only after a minimum of one-half hour of production in the plant on the day of the test, in order to allow VOC accumulation in the RCCs. The test shall measure VOC concentration and duct velocity at the combined wet spray lines (Wet 1 and Wet 2) manifold and the combined oven manifold for VOCs in the system, and at the exhaust stack for VOCs out of the system. All VOCs shall be calculated in pounds per hour in the stack test report. Single control efficiency for the system shall be calculated using the following equation: [\[Special Condition 6\(d\) of Construction 982\]](#)

$$CE = 1 - \left(\frac{Stack_{out}}{RC_{in} + Ovens_{in}} \right)$$

Where:

CE = Control Efficiency of The System

Stack_{Out} = three (3)-run average VOC rate in Lb/Hr as measured at the system outlet stack

RC_{In} = three (3)-run average VOC rate in Lb/Hr of the solvent-laden air stream feeding into the RCCs

$Ovens_{In}$ = three (3)-run average VOC rate in Lb/Hr from the solvent-laden air stream coming from the ovens ducted directly to the HTO.

- 5.) Harley-Davidson Motor Company Operations, Inc. shall provide the Air Quality Program with a written report of the performance test results no later than the date agreed to during the pre-stack test meeting or no later than 90 days after test completion, whichever is less. [Special Condition 6(e) of Construction Permit 982]
- 6.) The permittee (or his designee) shall read and record the differential pressure drop across the main/secondary (Wet 1 and Wet 2) wet spray booth filtration system at least once per month, and indicate whether the pressure drop is within its normal range (use Attachment N or equivalent). The normal operating differential pressure is 0 to 1.25-inch of water column. If the differential pressure exceeds 1.25-inches, or other abnormal conditions are detected, all appropriate measures for remediation shall be implemented within forty-eight hours.

Record Keeping:

- 1.) In order to determine daily compliance with Emission Limitation 1 (Item 1(b) from Kansas City Health Department Construction Permit 982), Surface Coating, Harley-Davidson Motor Company Operations, Inc. shall complete Attachment P (Worksheet A from Kansas City Health Department Construction Permit 982), or equivalent form, for each production line. [Special Condition 4(a) of Construction Permit 982]
- 2.) Harley-Davidson Motor Company Operations, Inc. shall maintain temperature and operating time strip chart records for the HTO. [Special Condition 4(d) of Construction Permit 982]
- 3.) To demonstrate compliance with Emission Limitation/Operational Limitation 6 (Item 3(e) from Kansas City Health Department Construction Permit 982), Harley-Davidson Motor Company Operations, Inc. shall record scheduled or un-scheduled maintenance as it occurs on Attachment L (Worksheet D from Kansas City Health Department Construction Permit 982) or an equivalent form. [Special Condition 4(e) of Construction Permit 982]
- 4.) All records required by Kansas City Health Department Construction Permit 982 shall be kept at the facility for a minimum of five years and be made available to Air Quality inspectors upon request. [Special Condition 4(f) of Construction Permit 982]
- 5.) To demonstrate compliance with Emission Limitation/Operational Limitation 5 (Item 3(d) from Kansas City Health Department Construction Permit 982), Harley-Davidson Motor Company Operations, Inc. shall record monthly particulate control system differential pressure drop on Attachment M (Worksheet E from Kansas City Health Department Construction Permit 982), or an equivalent form. [Special Condition 4(g) of Construction Permit 982]

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0010 through 0110)-002

10 CSR 10-6.060 Construction Permits Required
 Kansas City Health Department Construction Permit 982, Special Conditions
 Kansas City Health Department Construction Permit 1026, Special Conditions
 10 CSR 10-2.230 Control of Emissions from Industrial Surface Coating Operations
 KCMO Section 8-8(c)

Emission Limitation:

- 1.) Harley-Davidson Motor Company Operations, Inc. shall comply with Missouri State Regulation 10 CSR 10-2.230, *Control of Emissions from Industrial Surface Coating Operations*. Coating applications at the facility shall comply with Table 10 CSR 10-2.230 (4)(B) limitations. [Special Condition 1(b) of Construction Permit 982]
- 2.) At all times, the emissions from this process shall be volume-weighted averaged on a daily basis with controlled/abated emissions from either the main (Wet 1)/secondary (Wet 2) wet spray paint line or the main repair/touch-up booth. [Special Condition 2 of Construction Permit 1026]
- 3.) The permittee shall not emit to the atmosphere during any 24-hour period any VOC from any surface coating operation in excess of the amount allowed in Table B, 10 CSR 10-2.230(4)(B) limitations as follows:

<u>Surface Coating Application</u>	<u>Applicable Classification</u>	<u>Emission limit pounds VOC per gallon coating (minus H₂O and non-VOC organic compounds)</u>
Gas Tank Interior	Other Metal Parts; Other Coatings	3.0
Frame—Powder	Other Metal Parts; Other Coatings	3.0
Primer—Ecoat (parts)	Other Metal Parts; Other Coatings	3.0
Base Coat—Wet Spray (parts)	Extreme Performance Coatings	3.5
Clear Coat (parts)	Other Metal Parts; Clear Coat	4.3
Finesse (decorative)	Extreme Performance Coatings	3.5

Monitoring/Record Keeping:

- 1.) The permittee shall maintain records detailing specific VOC sources, as necessary to determine compliance with the applicable emission limit. These may include: [10 CSR 10-2.230(6)(A)]
 - a.) The daily type and quantity of coatings applied and coating reducers used (if added to coatings) in the main/secondary (Wet 1 and Wet 2) wet spray booth and the finesse painting area (use Attachment A or equivalent form);
 - b.) The coating manufacturer’s formulation data for each coating used;
 - c.) The type and quantity of solvents for coating, reducing, purging and equipment cleaning used daily;
 - d.) All test results that document capture and control efficiencies, transfer efficiencies, and coating makeup;
 - e.) The type and quantity of waste solvents reclaimed or discarded;
 - f.) The quantity of pieces or materials coated daily; and
 - g.) Any additional information pertinent to determine compliance.
- 2.) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the Director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions record keeping protocols for specific industrial classifications.

- 3.) The daily average lbs. VOC per gallon coating applied for the main/secondary (Wet 1 and Wet 2) wet spray lines shall be calculated (and recorded on Attachment C or equivalent form) using the following formula: [10 CSR 10-2.230(5)(B)]

$$DAVG_{vw} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where,

A = Daily gallons of each coating 'i' used (minus water and exempt solvents) in a surface coating operation.

B = lbs. VOC/gallon coating 'i' (minus water and exempt solvents). B = lbs. VOC/gallon after emissions control for the main/secondary (Wet 1 and Wet 2) wet spray booth. B = average daily lbs. VOC/gallon uncontrolled for the finesse paint area.

C = total daily gallons coating used (minus water and exempt solvents)

n = number of all coatings used each day on the main/secondary (Wet 1 and Wet 2) and finesse coating line.

- a.) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).
 - b.) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.
- 4.) If the volume-weighted average mass of VOC per volume of coating (minus water and non-VOC organic compounds), calculated on a daily basis, is less than the lbs VOC/gallon coating (minus water and non-VOC organic compounds) limits established under Emission Limitation #2 above, the source is in compliance. Each daily calculation is a performance test for the purpose of determining compliance with 10 CSR 10-5.330(4)(B).

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0120-01			
10 CSR 10-6.060 Construction Permits Required Kansas City Health Department Construction Permit 982, Special Condition 1(a) 10 CSR 10-2.210(3)(C) Control of Emissions from Solvent Metal Cleaning KCMO Section 8-8(a)			
Emission Unit	Description	Manufacturer/Model #	2009 EIQ Reference #
EU0120	Four (4) Metal Parts Cleaners	ZEP Dyna Cold Solvent Metal Cleaners	EP-06

Emission Limitation:

- 1.) Harley Davidson Motor Company Operations, Inc. shall comply with Missouri State Regulation 10 CSR 10-2.210. *Control of Emissions from Solvent Metal Cleaning*. [Special Condition 1(a) of Construction Permit 982]
- 2.) After August 30, 2003 –
 The permittee shall not allow the operation of any cold cleaner using a cold cleaner solvent with a vapor pressure greater than 1.0 millimeters of mercury (0.019 psi) at 20 degrees Celsius (20°C) (sixty-eight degrees Fahrenheit (68°F)) unless the cold cleaner is used for carburetor cleaning. [10 CSR 10-2.210(3)(B)1.B.(I)]
- 3.) Each cold cleaner shall have:
 - a.) A cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position or an enclosed reservoir that will prevent the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner. [10 CSR 10-2.210(3)(B)1.E.]
 - b.) A drainage facility that will be internal so that parts are enclosed under the cover while draining. [10 CSR 10-2.210(3)(B)1.G.]
 - c.) A permanent conspicuous label summarizing the operating procedures affixed to the equipment. [10 CSR 10-2.210(3)(B)1.J.]
- 4.) Solvent sprays (if used) shall be a solid fluid stream (not a fine, atomized or shower-type spray) and operate at a pressure, which does not cause any splashing above or beyond the freeboard. [10 CSR 10-2.210(3)(B)1.I.]

Operating Procedures:

- 1.) Each cold cleaner shall be operated as follows:
 - a.) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the cold cleaner solvent must drain into an enclosed reservoir. [10 CSR 10-2.210(3)(C)1.A.]
 - b.) Cleaned parts shall be drained in the freeboard area for at least fifteen (15) seconds or until dripping ceases, whichever is longer. [10 CSR 10-2.210(3)(C)1.B.]
 - c.) Whenever a cold cleaner fails to perform within the operating parameters established for it by this rule, the unit shall be shut down immediately and shall remain shut down until trained service personnel are able to restore operation within the established parameters. [10 CSR 10-2.210(3)(C)1.C.]
 - d.) Solvent leaks shall be repaired immediately or the cold cleaner shall be shut down until the leaks are repaired. [10 CSR 10-2.210(3)(C)1.D.]
 - e.) Any waste material removed from a cold cleaner shall be disposed of by one (1) of the following methods and in accordance with the Missouri Hazardous Waste Management Commission rules codified at 10 CSR 10-25, as applicable: [10 CSR 10-2.210(3)(C)1.E.]

- i.) Reduction of the waste material to less than twenty percent (20%) VOC solvent by distillation and proper disposal of the still bottom waste, or
 - ii.) Stored in closed containers for transfer to a contract reclamation service or a disposal facility approved by the Director.
- 2.) Waste solvent shall be stored in covered containers only. [10 CSR 10-2.210(3)(C)1.F.]

Operator and Supervisor Training:

Operators must be trained as follows: [10 CSR 10-2.210(3)(D)]

- 1.) Only persons trained in at least the operational and equipment requirements specified in this regulation for their particular solvent metal cleaning process shall be permitted to operate the equipment,
- 2.) The supervisor of any person who operates a solvent metal cleaning process shall receive equal or greater operational training than the operator,
- 3.) Refresher training shall be given to all solvent metal cleaning equipment operators at least once each 12-month period.
- 4.) A record shall be kept of solvent metal cleaning training for each employee.

Monitoring:

The permittee shall monitor the throughputs of the cold cleaner solvents monthly and maintain material safety data sheets of the cold cleaner solvents used at the installation.

Record Keeping:

- 1.) The permittee shall keep monthly inventory records of cold cleaner solvent types and amounts purchased and cold cleaner solvent consumption (use Attachment G or equivalent form). The records shall include all types and amounts of cold cleaner solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises (use Attachment H or equivalent form). The record also shall include maintenance and repair logs for the cold solvent cleaners and any associated equipment (use Attachment M or equivalent form). [10 CSR 10-2.210(4)(A)]
- 2.) After August 30, 2002, the permittee shall maintain records (use Attachment J or equivalent form) which include for each purchase of cold cleaning solvent: [10 CSR 10-2.210(4)(B)]
 - a.) The name and address of the cold cleaner solvent supplier;
 - b.) The date of purchase;
 - c.) The type of cold cleaner solvent; and
 - d.) The vapor pressure of the cold cleaner solvent measured in mmHg at twenty degrees Celsius (20°C) (sixty-eight degrees Fahrenheit (68°F)).
- 3.) Records shall be maintained of all cold cleaner solvent metal cleaning training for each employee. The training record for each employee shall include, but may not be limited to, the date of training and the name and signature of the trainer and the trainee (use Attachment K or equivalent form). [10 CSR 10-2.210(4)(D)]
- 4.) The records required by these permit conditions shall be maintained for a period of five (5) years and shall be made available to the Director upon request.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance

of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0130-01			
10 CSR 10-2.260 Control of Petroleum Liquid Storage, Loading and Transfer			
Emission Unit	Description	Manufacturer/Model #	2009 EIQ Reference #
EU0130	One above-ground gasoline storage tank with a total capacity of 1,000 gallons	Earth Safe ConVault	EP-11

Emission Limitation/Monitoring/Record Keeping:

- 1.) The permittee must keep records documenting the vessel owners and the number of delivery vessels unloaded by each owner.
- 2.) Records shall be kept for five (5) years and shall be made available to the staff director within five (5) days of a request.
- 3.) The owner or operator shall retain on site copies of the loading ticket, manifest or delivery receipt for each grade of product received.
- 4.) If a delivery receipt is retained rather than a manifest of loading ticket, the delivery ticket shall bear the following information: vendor name, date of delivery, quantity of each grade, point of origin, and the manifest or loading ticket number.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0140 through EU0170)-001			
10 CSR 10-6.060 Construction Permits Required			
Kansas City Health Department Permit 982 Special Conditions			
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds			
EU ID	General Description	Manufacturer/Model #	EIQ Reference # (year)
EU0140	Natural gas-fuel emergency generator, 100 kW	Onan	EP-15 (2002)
EU0150	Natural gas-fuel emergency generator, 35 kW	Onan	EP-16 (2002)
EU0160	Diesel-fueled emergency generator, 250 kW	Onan	EP-14(2002)
EU0170	#2 Diesel-fueled emergency IC engine, (MVC fire suppression pump emergency drive); 79 kW	John Deere	N/A

Emission Limitation:

- 1.) Construction Permit 982 allows Harley-Davidson Motor Company Operations, Inc. to operate three emergency generators, a 250 kW Diesel Fired (EU0160), a 100 kW Natural Gas fired (EU0140), and a 35 kW Natural gas fired (EU0150). [Special Condition 2(a) of Construction Permit 982]

- 2.) The generators shall be used for emergency purposes only. Each generator is limited to 500 hours of actual operation per consecutive 12-month period of time. The generators are not to be operated for peak shaving or supplying power to the grid. [Special Condition 2(c) of Construction Permit 982]
- 3.) Emission units EU0140 through EU0170 shall be limited to fuel with a sulfur content of no more than 0.5 percent sulfur by weight. [Voluntary limit for compliance with 10 CSR 10-6.260]

Monitoring:

The permittee shall maintain fuel oil certification records from the supplier or from laboratory test results of the storage tank to show that the No. 2 fuel oil does not contain more than 0.5 percent sulfur by weight. [Special Condition 2(b) of Construction Permit 982]

Record Keeping:

- 1.) The fuel oil sulfur content documentation shall be kept on-site for a period of five years and shall be made available to the Department of Natural Resources' personnel upon request.
- 2.) In order to demonstrate compliance with Emission Limitation #2 (Special Condition 2(c) of Construction Permit 982), Production Limits, Harley-Davidson Motor Company Operations, Inc. shall complete Attachment O (Worksheet C from Construction Permit 982), or equivalent, for the hours of operation and dates of operation for each generator. [Special Condition 4(c) of Construction Permit 982]

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0140 through EU0170)-002			
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations 40 CFR Part 63, Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines			
EU ID	General Description	Manufacturer/Model #	EIQ Reference # (year)
EU0140	Natural gas-fuel emergency generator, 100 kW	Onan	EP-15 (2009)
EU0150	Natural gas-fuel emergency generator, 35 kW	Onan	EP-16 (2009)
EU0160	Diesel-fueled emergency generator, 250 kW	Onan	EP-14(2009)
EU0170	#2 Diesel-fueled emergency IC engine, (fire suppression pump emergency drive); 79 kW	John Deere	EP-18(2009)

*An existing stationary CI RICE located at an area source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. [§63.6595(a)(1)]

Emergency stationary RICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, *etc.* Stationary CI ICE used for peak shaving are not considered emergency stationary ICE. Stationary CI ICE used to supply power to an electric grid or that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance. [§63.6675]

Emission Limitations:

None.

Operational Limitations:

- 1.) At all times the permittee must operate and maintain the affected engine 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 including review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the engine. [§63.6605(b)]
- 2.) The permittee must meet the following requirements (except during periods of engine startup): [§63.6603(a)]
 - a) Change the engine oil and oil filter every 500 hours of operation or annually, whichever comes first;
 - b) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- 3.) The permittee shall only operate the engines within the following hour limitations: [§63.6640(f)]
 - a) Unlimited use in emergency situations. [§63.6603(f)(2)]
 - b) 50 hours per year for any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations. [§63.6640(f)(1)]
 - c) 100 hours per year for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The 50 hours allowed in 3.b) above count towards this 100 hour limitation. [§63.6640(f)(3) and §63.6603(f)(4)]
- 4.) If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required above, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work 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. [§63.6603(a)]

- 5.) During periods of startup the permittee must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [§63.6625(h)]
- 6.) The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirements in 2.a), 2.b) and 2.c) of this condition. The oil analysis must be performed at every 500 hours of operation or annually. 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 follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not 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. [§63.6603(i)]
- 7.) The permittee must install a non-resettable hour meter on this engine if one is not already installed. [§63.6625(f)]

Record Keeping:

- 1.) The permittee must keep the following records for this engine: [§63.6655(a)]
 - a) Records of the occurrence and duration of each malfunction of process equipment or any air pollution control and monitoring equipment and actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [§63.6655(a)(2) and §63.6655(a)(5)]
 - b) Records of all required maintenance performed on the air pollution control and monitoring equipment. [§63.6655(a)(4)]
 - c) Records that the engine was operated and maintained according to the manufacturer's emission-related operation and maintenance instructions or that a maintenance plan has been developed to provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [§63.6655(e)]
 - d) Records of the hours of operation for the engine as measured by the non-resettable hour meter. The installation shall also maintain a record keeping form indicating out of the total hours measured by the meter: [§63.6655(f)]
 - i) How many hours were spent in emergency use and a brief description of the emergency situation.
 - ii) How many hours were spent in non-emergency operation.
 - e) These records must be made available for inspection upon request by Missouri Department of Natural Resources' personnel. [§63.6660(a)]
 - f) All records shall be maintained for five (5) years. [§63.6660(b)]
 - g) Records shall be kept readily accessible in hard copy or electronic form. [§63.6660(c)]

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.

Permit Condition (EU0160 & EU0170)-003			
KCMO Section 8-5(f) Restrictions of Visible Emissions from Internal Combustion Engines			
EU ID	General Description	Manufacturer/Model #	EIQ Reference # (year)
EU0160	Diesel-fueled emergency generator, 250 kW	Onan	EP-14(2002)
EU0170	#2 Diesel-fueled emergency internal combustion engine, (fire suppression pump emergency drive); 79 kW	John Deere	N/A

Emission Limitation:

No person shall cause or permit the emissions of visible air contaminants from any internal-combustion engine for more than five consecutive seconds at any one time.

Exception: Where the presence of uncombined water is the only reason for failure of an emission to meet the requirements of this limit, the limitation shall not apply.

Monitoring

The permittee shall conduct annual monitoring of the engines' exhaust for visible emissions.

Record Keeping:

The permittee shall maintain records of all observation results (see Attachment S), noting:

- 1.) Whether any air emissions (except for water vapor) were visible from the emission units,
- 2.) All emission units from which visible emissions occurred,
- 3.) The length of time visible emissions were observed, and
- 4.) Whether any equipment malfunctions caused visible emissions.

Reporting

The permittee shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR), the Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
 - ii) Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
 - iii) St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
 - iv) St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - b) Yard waste, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 - ii) Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
 - iii) St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
 - (1) A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
 - (2) A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
 - (3) The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - (4) In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and

- iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Installation Name may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Installation Name fails to comply with the provisions or any condition of the open burning permit.
 - a) In a nonattainment area, as defined in 10 CSR 10-6.020, Paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- 5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971, is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the Paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
 - 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the Paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
 - 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
 - 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.
- 6) The permittee shall complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting period.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170

Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.

- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-2.070 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the Department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the Department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the Department. Certain business entities that meet the requirements for state-approved exemption status must allow the Department to monitor training classes provided to employees who perform asbestos abatement.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 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 must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:

- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

10 CSR 10-6.065(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065(6)(C)1.C General Record Keeping and Reporting Requirements

- 1) Record Keeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) October 1st for monitoring which covers the January through June time period, and
 - ii) April 1st for monitoring which covers the July through December time period.
 - iii) Exception. Monitoring requirements which require reporting more frequently than semi-annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
 - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in Paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semi-annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(6)(C)1.F Severability Clause

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

10 CSR 10-6.065(6)(C)1.G General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to

the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios

None.

10 CSR 10-6.065(6)(C)3 Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;

- c) Whether compliance was continuous or intermittent;
- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065(6)(C)6 Permit Shield

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
 - a) The application requirements are included and specifically identified in this permit, or
 - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
 - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
 - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
 - c) The applicable requirements of the acid rain program,
 - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

10 CSR 10-6.065(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(6)(C)8 Operational Flexibility

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable

under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
 - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
 - b) The permit shield shall not apply to these changes.

10 CSR 10-6.065(6)(C)9 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and

- d) The permit shield shall not apply to these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Mr. Scott Pena, Facility Process Leader. On February 28, 2011, the Air Pollution Control Program was informed that Mr. R. Bruce Bowers, Environmental Manager is now the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire;or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
- 5) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

Attachment E
Combustion Source Monthly and 12-month Emissions
Of PM₁₀, SO_x, NO_x, and CO

Form Completed By: _____

Units	Aggregate natural gas usage for month, 10 ⁶ ft. ³	PM ₁₀ emission factor, Lb./10 ⁶ ft. ³	PM ₁₀ emissions for month, tons	PM ₁₀ emissions for last 12 months, tons
Boiler A Boiler B Three air supply house heaters Comfort heating units Six coating curing ovens, combustion		7.6		
		SO _x emission factor, Lb./10 ⁶ ft	SO _x emissions for month, tons	SO _x emissions for last 12 months, tons
		0.6		
		NO _x emission factor, Lb./10 ⁶ ft	NO _x emissions for month, tons	NO _x emissions for last 12 months, tons
		100		
		CO emission factor, Lb./10 ⁶ ft	CO emissions for month, tons	CO emissions for last 12 months, tons
		84		

Note: emission factors were derived from AP-42 Tables 1.4-1 and 1.4-2.

Unit	Monthly hours of operation	PM ₁₀ emission factor, Lb./hr	PM ₁₀ emissions for month, tons	PM ₁₀ emissions for last 12 months, tons
Natural gas-fuel emer. gen., 100 kW		0.013		
		SO _x emission factor, Lb./hr	SO _x emissions for month, tons	SO _x emissions for last 12 months, tons
		2.0×10^{-4}		
		NO _x emission factor, Lb./hr	NO _x emissions for month, tons	NO _x emissions for last 12 months, tons
		1.1		
		CO emission factor, Lb./hr	CO emissions for month, tons	CO emissions for last 12 months, tons
		0.13		

Note 1: emission factors were derived from AP-42 Table 3.2-1.

Note 2: The installation maintains the information required by this Attachment via EMISSION TOTALS and AIRTRAK spreadsheet.

Attachment E (continued)

**Combustion Source Monthly and 12-month Emissions
 Of PM₁₀, SO_x, NO_x, and CO**

Unit	Monthly hours of operation	PM ₁₀ emission factor, Lb./hr	PM ₁₀ emissions for month, tons	PM ₁₀ emissions for last 12 months, tons
Natural gas-fuel emer. gen., 35 kW		0.005		
		SO _x emission factor, Lb./hr	SO _x emissions for month, tons	SO _x emissions for last 12 months, tons
		7.0×10^{-5}		
		NO _x emission factor, Lb./hr	NO _x emissions for month, tons	NO _x emissions for last 12 months, tons
		0.38		
		CO emission factor, Lb./hr	CO emissions for month, tons	CO emissions for last 12 months, tons
		0.05		

Note 1: emission factors were derived from AP-42 Table 3.2-1.

Note 2: The installation maintains the information required by this Attachment via AIRTRAK spreadsheet.

Unit	Monthly hours of operation	PM ₁₀ emission factor, Lb./hr	PM ₁₀ emissions for month, tons	PM ₁₀ emissions for last 12 months, tons
Diesel fueled emer. gen., 250 kW		0.26		
		SO _x emission factor, Lb./hr	SO _x emissions for month, tons	SO _x emissions for last 12 months, tons
		0.25		
		NO _x emission factor, Lb./hr	NO _x emissions for month, tons	NO _x emissions for last 12 months, tons
		3.8		
		CO emission factor, Lb./hr	CO emissions for month, tons	CO emissions for last 12 months, tons
		0.81		

Note 1: emission factors were derived from AP-42 Table 3.3-1.

Note 2: The installation maintains the information required by this Attachment via EMISSION TOTALS and AIRTRAK spreadsheet.

Attachment J
Record of Cold Cleaner Solvent Purchase
(Sample Form)

Date of Purchase: _____

_____ Type of solvent: _____

Name of Supplier: _____

_____ Vapor pressure: _____
_____ mmHg @ 20°C

Address: _____

This record is managed by the on-site Tier 1 Chemical Manager (Henkel Chemical Management). Solvent vapor pressure is documented on the MSDS.

Attachment K
Solvent Cleaner Operation
Individual Training Record
[Sample Form]

Trainee Name: _____

Trainer Name: _____

Date of Training: _____

Trainee Certification: I was trained in correct operation of the solvent metal cleaners on the date above.

Trainer Certification: I trained the individual whose name appears to the left in solvent metal cleaner operation.

Signature: _____

Signature: _____

Trainee Name: _____

Trainer Name: _____

Date of Training: _____

Trainee Certification: I was trained in correct operation of the solvent metal cleaners on the date above.

Trainer Certification: I trained the individual whose name appears to the left in solvent metal cleaner operation.

Signature: _____

Signature: _____

Trainee Name: _____

_____ Trainer Name: _____

Date of Training: _____

*Trainee Certification: I was trained in correct operation
of the solvent metal cleaners on the date above.*

*Trainer Certification: I trained the individual whose name
appears to the left in solvent metal cleaner operation.*

Signature: _____

Signature: _____

Trainee Name: _____

_____ Trainer Name: _____

Date of Training: _____

*Trainee Certification: I was trained in correct operation
of the solvent metal cleaners on the date above.*

*Trainer Certification: I trained the individual whose name
appears to the left in solvent metal cleaner operation.*

Signature: _____

Signature: _____

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, received August 31 2009;
- 2) 2009 Emissions Inventory Questionnaire; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 4) Comments submitted during facility draft review, via email on February 25, 2010.

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) Construction Permit Numbers 731, 837 & 920

The Kansas City Department of Health Air Quality Program issued three construction permits to the Harley-Davidson Motor Company Group, Inc. The three construction permits were Construction Permit 731(initial permit), Construction Permit 837 (Cold Solvent Cleaners and Portable Convection Oven), and Construction Permit 920 (secondary Wet Spray Robots). The construction permits were incorporated into Kansas City Health Department Construction Permit 982. The three previously issued permits (Construction Permits 731, 837, and 920) were superseded by Kansas City Health Department Construction Permit 982.

- 2) Construction Permit 982

Construction Permit 982, Condition 5, states that Harley-Davidson Motor Company, shall notify the Air Quality Program within 30 working days after any record indicates non-compliance with the limitation. The reporting requirement has been changed from thirty (30) days to ten (10) days following any exceedance of the conditions of the permit per 10 CSR 10-6.065(6)(C)1.C.(III)(c) and 40 CFR Part §70.6(a)(3)(iii)(B).

3) Construction Permit 982

Special Condition 1.(c) of Construction Permit 982 states that the installation shall not emit more than 12.0 tons of any single HAP per year, and not more than 31.0 tons per year of total HAP. On September 21, 2003, the installation submitted documentation taking a voluntary limit on HAP emissions. The installation proposed that the emission limit for a single HAP should not exceed 9.9 tons per year. The limit for total HAPs shall not exceed 24.9 tons per year. Since the voluntary limits are more restrictive than the HAP limits in Construction Permit 982, the voluntary limits have been included in Permit Condition PW001 replacing the limits established in Construction Permit 982. Methyl Ethyl Ketone (MEK) has been delisted as a HAP since the construction permit was issued, so all references to MEK as HAP were removed for clarity. MEK emissions will properly be reported as VOC.

4) Construction Permit 982

Construction Permit 982 was issued to consolidate three existing construction permits: i) Permit 731 (original facility-wide permit), ii) Permit 837 (three cold cleaner parts washers/convection oven), and iii) Permit 920 (installation of robotic wet spray guns). The Special Conditions from Construction Permit 982 contain the phrases “metal wet spray line” and “plastic wet spray line.” The installation has informed the agency that the respective wet spray lines are referenced internally with revised names. Therefore, the Special Conditions from Construction Permit 982 have been incorporated into the Operating Permit with the revised titles. The phrase “metal wet spray line” has been with the phrase “main wet spray line.”, and is now the Wet 1 spray line. The plastics wet spray line which was known as the “secondary wet spray line”, is now designated as the Wet 2 spray line (as no plastic parts are now painted at the installation, only metal parts are coated). The modification to the wet spray lines names did not alter any of the limitations or requirements of the Special Conditions of Construction Permit 982.

5) Construction Permit 982

Special Condition 2.(a) allows the installation to operate three emergency generators. These generators are Emission Units EU0140, EU0150, and EU0160. Since the issuance of Construction Permit 982, the installation has installed another emergency diesel engine (EU0170). This diesel-fired engine drives the water pump for the emergency fire suppression system for the material velocity center (warehouse portion of installation). The newly installed diesel engine did not warrant a construction permit, because it fell under the exemptions from Construction Permits located in 10 CSR 10-6.061 (3)(A) 2. Since the unit is exempted from 10 CSR 10-6.060, the installation is not required to obtain a Construction Permit amendment to revise the wording in Construction Permit 982 concerning the emergency generators. However, EU0170 is required by 10 CSR 10-6.061 to not exceed 500 operating hours per year and to be equipped with a non-resettable meter.

6) Construction Permit 982

Special Condition 3(d) states, “The four stage particulate filter (cartridge filter) upstream of the RCC’s shall be equipped with gauges to monitor the pressure drop. Spare filter cubes must be kept on site for emergency or maintenance purposes.” The term cartridge filter was used when the construction permit was issued. However, the term “filter cubes” is more representative description of the equipment that is utilized by the installation. The term “cartridge filter” has been replaced by “filter cubes” in the operating permit. In addition, due to storage space issues, the text of the

construction permit condition was edited to allow future flexibility, while still meeting the intent and enforceability of the permit. At the present time, spare filter cubes are now kept on the premises and Fluid Air Products facility storage is no longer used.

7) Construction Permit 1014

The previously issued permit (Construction Permit 1014) was superseded by Kansas City Health Department Construction Permit 1014A.

NSPS Applicability

40 CFR Part 60, Subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984*

The gasoline storage tank at Harley-Davidson Motor Company Operations, Inc. has a 1,000-gallon capacity, which is less than the applicability threshold for this subpart.

MACT Applicability

40 CFR Part 63, Subpart PPPP, *Plastic Parts and Products (Surface Coating)*

The installation is not a major source for HAPs and is not subject to the requirements of Subpart PPPP. In addition, plastic parts are no longer coated at this facility.

40 CFR Part 63, Subpart MMMM, *Miscellaneous (Surface Coating)*

The installation is not a major source for HAPs and is not subject to Subpart MMMM.

40 CFR Part 63, Subpart T, *National Emission Standards for Halogenated Solvent Cleaning*

Under §63.460(a) it states that Subpart T applies to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethylene, carbon tetrachloride, or chloroform, or any combination of these halogenated solvents. The installation utilizes cold cleaners in its operation. However, the cold cleaners do not use any of the solvents listed under §63.460(a). Since the installation does not use any of the applicable solvents listed under §63.460(a), Subpart T does not apply to the installation.

40 CFR Part 63, Subpart HHHHHH—*National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*

This rule does not apply to this facility because the coatings containing the target HAPs are not hand applied. [§63.11170]

40 CFR Part 63, Subpart ZZZZ—*National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

The following table illustrates how the IC engines that are located at this facility are classified under Subpart ZZZZ.

EU ID	General Description	MACT ZZZZ Status	EIQ Ref# (year)
EU0140	Natural gas-fuel emergency generator, 100 kW	<i>Existing</i> Emergency Stationary RICE rating <500 HP	EP-15 (2009)
EU0150	Natural gas-fuel emergency generator, 35 kW		EP-16 (2009)
EU0160	Diesel-fueled emergency generator, 250 kW		EP-14(2009)
EU0170	#2 Diesel-fueled emergency IC engine, (fire suppression pump emergency drive); 79 kW		EP-18(2009)
¹ This facility is an area source for HAP. An existing stationary CI RICE located at an area source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. [§63.6595(a)(1)]			

Permit Condition (EU0140 through EU0170)-002 of this permit has provisions for MACT ZZZZ that reflect this classification.

Other Regulatory Determinations

For classification purposes, the following table was generated to demonstrate the facility wide Potential to Emit (PTE) based on the 2009 EIQ and taking into account federally enforceable emission limits.

Pollutant	PTE (tpy)
CO	31.17
NH3	3.36
NOx	43.52
PM ₁₀	3.25
PM _{2.5}	3.23
SOx	1.38
VOC	110.63
HAP	<10/25

As shown in the table, this facility is considered Major Volatile Organic Compounds (VOC). The facility is a synthetic minor for Hazardous Air Pollutants (HAP) by taking a voluntary plant wide limit of 9.9 ton/year for any individual HAP and 24.9 ton/year of total HAP.

10 CSR 10-2.040, *Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*

The following table lists all of the indirect heating units within the installation. All indirect heating sources are considered new sources, since they are all installed after February 15, 1979.

EIQ Point Number	Description	Heat Input Rating (MMBTU/hr)
EP-01	9.5 MMBtu Natural Gas-fired Boiler A (1997) (Process Hot Water Boiler #1)	9.5
EP-02	9.5 MMBtu Natural Gas-fired Boiler B (1997) (Process Hot Water Boiler #2)	9.5
EP-03	Natural gas-fired comfort heating units (19.7 MMBtu total)	19.7
EP-04	Natural gas-fired air supply house heaters (9.6 MMBtu total)	9.6
Total Q for New Sources		48.3

As stated in 10 CSR 10-2.040(3)(A), the total heat input of all new and existing indirect heating sources within an installation shall be used to determine the maximum allowable particulate emission rate which is to be applied to each new indirect heating source within the installation. The value for Q applied for new indirect heating sources would be 48.3 MMBTU/hr.

Using the equation from §2.040(3)(B)2;

$$E = 0.80(Q)^{-0.301} = 0.80(48.3)^{-0.301} = 0.25 \text{ lbs/MMBtu}$$

To demonstrate compliance with the 0.25 lbs/MMBtu limitation, the emission factor provided from AP-42 is converted to the proper units as follows;

$$\text{Natural gas PM emission factor (lbs/MMBtu)} = \frac{7.6 \text{ lbs}/10^6 \text{ scf}}{1020 \text{ MMBtu}/10^6 \text{ scf}} = 7.45 \times 10^{-3} \text{ lb/MMBtu}$$

(AP - 42 Table 1.4 - 2(7/98))

The results are listed in the following table demonstrating compliance with the §2.040 standard.

Unit	Fuel	Emission Factor	Maximum Hourly Design Rate (MMBtu/hr)	Potential Emission Rate (lbs/MMBtu)	Emission Limitation (lbs/MMBtu)
EU0130	Natural Gas	7.6	9.50	0.007	0.25
EU0140	Natural Gas	7.6	9.50	0.007	0.25
EU0150	Natural Gas	7.6	19.70	0.007	0.25
EU0160	Natural Gas	7.6	9.60	0.007	0.25

The applicable emission limit from §2.040(3)(B)2 is 0.25 lb/MMBtu, and as demonstrated above, the expected emission rate from the natural gas fired units are several orders of magnitude lower than the limit. Therefore, no unit specific requirements were included in this permit for this rule.

10 CSR 10-2.210, *Control of Emissions from Solvent Metal Cleaning*

10 CSR 10-2.210 regulates the emissions from metal cleaning with three different solvents. The three solvents are cold cleaners, open-top vapor degreasers, and conveyORIZED degreasers. The installation only utilizes cold cleaners for the purpose of metal cleaning. Therefore, any requirements from 10 CSR 10-2.210 that deals with open-top vapor degreasers or conveyORIZED degreasers have not been incorporated into the Operating Permit. In addition, 10 CSR 10-2.210(4)(A) and (4)(B) states that records should be kept of each solvent type, purchase amount of each solvent, and solvent consumption. In the Operating Permit, the types of solvents have been further categorized as “cold cleaner solvent.” For instance, 10 CSR 10-2.210(4)(A) states that the installation should keep “records of solvent types and amounts purchased and solvent consumption.” This requirement has been revised so that the installation shall keep “records of cold cleaner solvent types and amounts purchased and cold cleaner solvent consumption.” This revision has been incorporated in all instances where the word “solvent” appears in the “Record Keeping” Section of Permit Condition EU0120-01.

10 CSR 10-2.230, *Control of Emissions from Industrial Surface Coating Operations*

Section (6) of 10 CSR 10-2.230 states that the installation is required to maintain records for the type and quantity of solvents for thinning (reducing). The installation uses reducing solvents that are the equivalent of thinning agents. To match the nomenclature that is utilized by the installation, all references to thinning solvents from 10 CSR 10-2.230 have been replaced by the phrase “reducing agents.”

10 CSR 10-6.400, *Restriction of Emissions of Particulate Matter from Industrial Processes:*

1. **Main (Wet 1) and Secondary (Wet 2) Wet Spray Lines** – The Wet 1 Spray Line and the Wet 2 Spray Line use electrostatic processes to apply solvent-based coatings. Each line has a maximum coating application rate of 4 gallons per hour. Particulate matter is controlled at each spray booth by a water wash system. After it passes through the water wash systems, exhaust air from the spray booths is ducted to the rotary carbon concentrators (RCCs), which is equipped with a four-stage PM filtration system designed to protect the RCCs..

The maximum PM emission rate (controlled) for each line is estimated as follows:

$$PM(\text{lb/hr}) = \text{Mass of Solids} \times (1 - TE) \times (1 - CE_{\text{ww}}) \times (1 - C_{F1}) \times (1 - C_{F2}) \times (1 - C_{F3}) \times (1 - C_{F4})$$

Where:

Mass of Solids = paint application rate (4 gal./hr) × paint density (9 lbs./gal.) × fraction solids (0.3)

TE = transfer efficiency (conservatively assumed to be 40 percent for electrostatic air application);

CE_{ww} = control efficiency of the water wash system (assumed to be 90 percent per Northrup Grumman Corporation, El Segundo, CA; http://www.bmpcoe.org/bestpractices/internal/ngenv_3.html).

The water wash system is included in this calculation because it operates to reduce PM that would otherwise build up because of overspray. Hence, the water wash system is not strictly a PM emission control device.

C_{F1} = control efficiency of first filter stage of PM control system (assumed for this analysis to be 90%);

C_{F2} = control efficiency of second filter stage of PM control system (assumed for this analysis to be 90%);

C_{F3} = control efficiency of third filter stage of PM control system (assumed for this analysis to be 90%);

C_{F4} = control efficiency of fourth filter stage of PM control system (assumed for this analysis to be 90%);

The controlled PM emission rate may be computed as follows:

Mass of solids = solids application rate × paint density × (%) wt. fraction of solids

$$\text{Mass of solids} = \left(\frac{4 \text{ gallon}}{\text{hour}} \right) \times \left(\frac{9 \text{ lbs}}{\text{gallon}} \right) \times 0.3 = 10.8 \frac{\text{lbs}}{\text{hour}}$$

$$\begin{aligned} \text{PM Emissions} &= 10.8 \text{ lbs./hr.} \times (1 - 0.4) \times (1 - 0.9) \\ &= 0.000065 \text{ lbs./hr} \end{aligned}$$

The coating operations are exempted from by §6.400 because they are required by Construction Permit 982 and Permit Condition (EU0010 through 0110)-001 to maintain a water wash system and a four stage PM filtration system which provides at least 90 percent control per §6.400(1)15, or a combined control efficiency of 95 percent per §6.400(1)14. The exemptions to the rule are as follows:

§6.400(1)14. - Coating operations equipped with a control system designed to control at least ninety-five percent (95 %) of the particulate overspray provided the system is operated and maintained in

accordance with manufacturers' specifications or comparable maintenance procedures that meet or exceed manufacturers' specifications;

§6.400(1)15. - Any particulate matter emission unit that is subject to a federally enforceable requirement to install, operate, and maintain a particulate matter control device system that controls at least ninety percent (90%) of particulate matter emissions;

2. **Welding Operation** – Welding is an activity that is generally performed continually on those shifts when fabrication is operating. The maximum possible rate of welding rod use is less than six (6) pounds per hour (letter from ESA, Inc. dated 10/11/01).

The AP-42 PM emission factors for welding range from 0.5 to 81 pounds per 1000 pounds of welding rod consumed (AP-42 Table 12.19-1). Estimated PM emissions from the welding operation are computed as follows.

$$6 \text{ lbs./hr.} \times 81 \text{ lbs./1000 lbs.} = 0.486 \text{ lbs./hr.}$$

Because the uncontrolled potential emission rate is less than 0.5 pounds per hour, the operation is exempt from the PM emission limitation by 10 CSR 10-6.400(1)(B)12. Therefore, this operation is not subject to any emission unit-specific requirements.

10 CSR 10-6.260. *Restriction of Sulfur Compounds.*

All the combustion heating sources at the installation burn pipeline-grade natural gas; therefore are exempt from this rule by 10 CSR 10-6.260(1)(A)(2).

Internal Combustion Engines- Kansas City Health Department Construction Permit 982 (see Permit Condition (EU0140 through EU0170)-001) requires that fuel in the three emergency generators and diesel engine ((EU0180, EU0190, & EU0200) does not contain more than 0.5 percent sulfur by weight. [Special Condition 2(b) of Construction Permit 982]. Permit Condition (EU0140 through EU0170)-001 also contains a sulfur concentration limit for the other generator that is not covered by Construction Permit 982. This was done to satisfy the requirements of §6.260 and eliminate the need to place conditions in this permit for that effect. Permit Condition (EU0140 through EU0170)-001 has monitoring and record keeping provisions that meet and the requirements of §6.260.

Compliance Assurance Monitoring (CAM) Applicability

40 CFR Part 64, <i>Compliance Assurance Monitoring (CAM)</i>	Yes	No
The CAM rule applies to each pollutant specific emission unit that:		
§64.2(a)(1) - The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under Paragraph (b)(1) of this section;		X
§64.2(a)(2) - The unit uses a control device to achieve compliance with any such emission limitation or standard; and		X
§64.2(a)(3) - The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. For purposes of this paragraph, “potential pre-control device emissions” shall have the same meaning as “potential to emit,” as defined in §64.1, except that emission reductions achieved by the applicable control device shall not be taken into account.		X

40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

Don Murphy
 Environmental Engineer

CERTIFIED MAIL: 70082810000020167459
RETURN RECEIPT REQUESTED

Mr. Bruce Bowers
Harley-Davidson Motor Company Operations, Inc.
11401 North Congress
Kansas City, MO 64153

Re: Installation Name, 165-2415
Permit Number: **OP2011-022**

Dear Mr. Bowers:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Don Murphy at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS:dmk

Enclosures

c: Kansas City Air Quality Program
PAMS File: 2009-10-050