



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 here in.

Operating Permit Number: OP2008-044
Expiration Date: NOV 23 2013
Installation ID: 047-0019
Project Number: 047-0019-034

Installation Name and Address

Ford Motor Co., Kansas City Assembly Plant
P.O. Box 11009, Antioch Station
Kansas City, MO 64119
Clay County

Parent Company's Name and Address

Ford Motor Company
The American Road
Dearborn MI, 48121

Installation Description:

Ford Motor Company (Ford) owns and operates an automobile assembly plant in Claycomo, Missouri. Ford's Kansas City Assembly Plant builds SUVs (Passenger) and light duty trucks (Commercial).

NOV 24 2008

Effective Date


Director or Designee
Department of Natural Resources

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Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Ford Motor Company (Ford) owns and operates an automobile assembly plant in Claycomo, Missouri. Ford’s Kansas City Assembly Plant builds SUVs (Passenger) and light duty trucks (Commercial). The plant operations include vehicle assembly in two independent lines, passenger and commercial, that occur in three buildings. One building houses primarily SUV body, painting and assembly, and the truck phosphate and E-coat processes and truck assembly. The two other buildings are used primarily for truck body and truck guidecoat and topcoat operations, respectively.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2007	59.19	10.84	73.59	1736.03	60.78	---	350.97
2006	69.25	3.720	75.40	1524	63.03	--	329.03
2005	76.60	3.260	82.80	1723	69.30	--	388.91
2004	82.60	26.30	88.50	1904	60.10	--	697.86
2003	116.6	4.740	94.80	1927	79.10	--	1119.46

Note: Most HAPs were reported as VOCs on the Emission Inventory Questionnaires (EIQs)

EMISSION UNITS WITH LIMITATIONS

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

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>
EU0010	Passenger Body Shop
EU0020	Passenger Electrocoat (E-Coat)
EU0030	Passenger Sealer
EU0040	Passenger PVC Enclosure
EU0050	Passenger Guidecoat
EU0060	Passenger Topcoat
EU0070	Passenger Wax
EU0080	Passenger Blackout
EU0090	Passenger Final Repair
EU0100	Passenger Glass Install
EU0105	Passenger Ditch Molding
EU0120	Commercial Body Shop
EU0130	Passenger Electrocoat (E-Coat)
EU0140	Commercial Sealer
EU0150	Commercial Guidecoat
EU0160	Commercial Topcoat
EU0170	Commercial Blackout
EU0180	Commercial Final Repair
EU0190	Commercial Glass Install
EU0200	Powerhouse Boiler #1
EU0210	Powerhouse Boiler #2
EU0220	Powerhouse Boiler #3
EU0230	E-Lab Boiler
EU0240	Fitness Room Boiler
EU0250	Solvent Degreasers
EU0260	Gasoline Underground Storage Tanks (3)
EU0270	Scuff Booths (5)
EU0280	Seven 20 MMBtu/hr Space Heaters
EU0290	20,000 Gallon Windshield Washer Fluid UST
EU0310	Fluidized Bed Skid Cleaner
EU0320	Passenger Scrap Paint Tank
EU0330	Passenger Spent Solvent Tank
EU0340	Passenger Paint Mix Room
EU0350	Commercial Scrap Paint Tank
EU0360	Commercial Spent Solvent Tank
EU0370	Commercial Paint Mix Room
EU0380	Paint Stripper

EMISSION UNITS WITHOUT LIMITATIONS

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

Description of Emission Source

Passenger and Commercial Body Shop Welding and Grinding (EP-49)
Passenger Phosphate System (EP-01)
Passenger Phosphate Boiler (EP-34)
Passenger Fluid Fill (EP-50)
Commercial Phosphate System (EP-14)
Commercial Phosphate Boiler (EP-34)
Commercial Fluid Fill (EP-50)
Petroleum Tanks (3) (EP-43)
Waste Oil AST (EP-45)
Wastewater Treatment Plant (EP-51)
Hot Water Heaters (EP-34)
Space Heaters (EP-34)
Product Storage Tanks (EP-52)
Miscellaneous Solvent Use (EP-42)

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

Construction Permit 042008-001, Issued March 31, 2008

I. 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
Construction Permit 042008-001, Issued March 31, 2008

1. **Superseding Condition**

The conditions of this permit supersede all special conditions found in the following previously issued construction permits and amendments from the Air Pollution Control Program.

Permit Number
0678-008
1084-003 through 009
0386-003
0990-009
0690-016
0590-001
1089-001A
0293-003
1193-015
0594-034
0293-003A
112000-014
082001-022
082001-022A
112000-014A
042006-012

2. **Annual Emission Limitation – Plant Wide Applicability Limitation (PAL)**

A. Ford Motor Company Kansas City Assembly Plant shall emit less than 2,363 tons of Volatile Organic Compounds (VOCs) from the entire installation in any consecutive twelve-month period. The consecutive twelve-month period shall not include time periods prior to issuance of this construction permit. Emissions during periods of start-up, shutdown, and malfunction of the control device shall be counted towards the limit during the twelve-month period.

- B. Ford Motor Company Kansas City Assembly Plant shall track VOC emissions and calculate the monthly and consecutive twelve-month VOC emissions from the entire installation. Attachment A, or equivalent forms approved by the permitting authority shall be used to demonstrate compliance with Special Conditions 2.A.
 - C. Ford Motor Company Kansas City Assembly Plant shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the end of the month during which the records from Special Condition Number 2.B. indicate that the source exceeds the limitation of Special Conditions Number 2.A.
 - D. Ford Motor Company Kansas City Assembly Plant shall keep documentation of any emission factors used to demonstrate compliance with Special Condition 2.A. Emission factors must be obtained from the most recent edition of AP-42, *Compilation of Air Pollutant Emission Factors*, the most recent stack performance test results, a mass balance approach using the Material Safety Data Sheets (MSDS) of all materials, and/or by a method approved by the permitting authority. Documentation sufficient to support the emission factors must accompany Attachment A required by Special Condition 2.B.
 - E. Ford Motor Company Kansas City Assembly Plant shall keep documentation of any overall control efficiencies used to demonstrate compliance with Special Condition 2.A. Overall control efficiency is the product of the capture efficiency and control efficiency of the pollution control device. Documentation sufficient to support the capture and control efficiencies must accompany Attachment A required by Special Condition 2.B.
 - F. Ford Motor Company Kansas City Assembly Plant shall keep documentation of all data relied upon, including but not limited to, any quality assurance/quality control data, in calculating the monthly and annual VOC emissions.
3. Operational Requirement
- A. Ford Motor Company Kansas City Assembly Plant shall keep the ink, solvents and cleaning solutions in sealed containers whenever the materials are not in use. Ford Motor Company Kansas City Assembly Plant shall provide and maintain suitable easily read permanent markings on all inks, solvent and cleaning solution containers used with this equipment.
4. Pre-Approved Operational and Equipment Modifications
- A. Ford Motor Company Kansas City Assembly Plant is authorized to perform the physical or operational changes, or changes deemed consistent with those physical or operational changes, listed in Attachment B, *Pre-Approved Changes*, without applying for, or obtaining, a construction permit or amendment from the permitting authority. Any increase or decrease in emissions of VOC resulting from the construction and operation of any of the above pre-approved changes are subject to the requirements listed in Special Condition 2. Any increase or decrease in emissions of non-VOC criteria air pollutants resulting from the construction and operation of any of the above pre-approved changes are subject to the requirements listed in Special Condition 23.
 - B. Ford Motor Company Kansas City Assembly Plant shall maintain a log of equipment installed and/or modified under the Pre-Approved Changes and the date on which construction and/or modification and operation began. In addition, Ford Motor Company Kansas City Assembly Plant shall maintain a log of equipment removed from the installation and the date on which it was removed. The log must account for all

equipment present at the installation at any given time. Attachment C, or equivalent forms approved by the permitting authority, may be used for this purpose.

- C. Ford Motor Company Kansas City Assembly Plant shall notify the permitting authority of all activities associated with any Pre-Approved Change according to Special Conditions 5 and 6.
- D. If Ford Motor Company Kansas City Assembly Plant wishes to make physical or operational changes that are not deemed consistent with the physical or operational changes listed in Attachment B of this construction permit and are not exempt from the construction permit rule, then Ford Motor Company Kansas City Assembly Plant must first apply for and obtain a construction permit or amendment according to 10 CSR 10-6.060, *Construction Permits Required*.

5. Notification of Actual Construction of Pre-Approved Change

- A. Ford Motor Company Kansas City Assembly Plant shall submit written notification to the permitting authority (including the regional office) at least ten days prior to the actual construction of any pre-approved change listed in Attachment B. The notification shall contain the following:
 - 1) Detailed description of the physical or operational change including the effect on existing equipment;
 - 2) A plant layout diagram with representation of existing equipment and physical or operational changes;
 - 3) A schedule of construction activities related to the pre-approved change;
 - 4) A statement of applicability for any New Source Performance Standard, National Emissions Standard of Hazardous Air Pollutants and/or state regulations not identified as core requirements in the operating permit;
 - 5) An emissions calculation sheet for the pre-approved change including any modeling required by Special Condition 7;
 - 6) A calculation sheet for the potential emissions of all criteria air pollutants except VOC for the pre-approved change;
 - 7) A summation of the potential emissions from completed and proposed pre-approved changes;
 - 8) A statement of verification that the physical or operational change will not result in installation emissions that exceed the limitations stated in Special Condition 2; and
 - 9) A summary of the impact analysis on the capture efficiency as outlined in Special Condition 9.D.
- B. This notification shall become an enforceable part of this construction permit upon receipt by the permitting authority and Ford Motor Company Kansas City Assembly Plant shall comply with the terms and conditions of the notification.
- C. The permitting authority may disapprove any activity that has not been demonstrated to the satisfaction of the Program to be related to the pre-approved changes. At that time, Ford Motor Company Kansas City Assembly Plant shall cease construction of the change until an appropriate authorization of the activities is obtained (such as a construction permit, if necessary).

6. Notification of Actual Start-up of Pre-Approved Change

- A. Ford Motor Company Kansas City Assembly Plant shall submit written notification to the permitting authority (including the regional office) at least ten days prior to the actual

start-up or operation of any pre-approved change listed in Attachment B. The notification shall contain the following:

- 1) Reference to the notification of actual construction including date of notification and brief description of change;
- 2) Verification that the physical or operational change was completed as described in the original notification; and
- 3) Scheduled date operations will be commenced.

B. It is a violation of this construction permit for Ford Motor Company Kansas City Assembly Plant to construct, modify or operate the installation not in accordance with the notification of 6.A. above.

7. Ambient Air Quality Analysis Requirement for Individual Hazardous Air Pollutant(s) (HAPs) prior to submitting notification of a pre-approved change, Ford Motor Company Kansas City Assembly Plant must evaluate HAP emissions for the pre-approved change, not subject to a MACT, according to the following methodology:

- A. For all HAPs listed in *Draft Acceptable Ambient Levels for Missouri* with a potential to emit greater than their respective threshold levels, Ford Motor Company Kansas City Assembly Plant shall perform screen modeling using the methods outlined in Special Condition 8 to determine the one-hour, eight-hour, 24-hour, and/or annual concentration of any individual HAP. The results of the screen modeling must be submitted with the notification required in Special Condition 5 for all pre-approved changes containing HAP, not subject to a MACT.
- B. The eight-hour, 24-hour and/or annual concentrations shall be compared to the current, available Risk Assessment Levels for each HAP listed in *Draft Acceptable Ambient Levels for Missouri*.
- C. If the screen modeling indicates that the emissions from the pre-approved change at the installation exceed acceptable concentration levels as stated in the most current version of *Draft Acceptable Ambient Levels for Missouri*, then Ford Motor Company must submit and obtain approval for either of the following options prior to submitting notification of construction (Special Condition 5):
 - 1) Refined modeling, or
 - 2) An amendment to the flexible construction permit to include a federally enforceable limit on HAP emissions.

8. Screen Modeling Method for Individual HAPs

- A. Ford Motor Company Kansas City Assembly Plant shall use the preferred screening method stated in 40 CFR Part 51 Appendix W, "*Guideline on Air Quality Models*".
- B. The emission rate to be used in the model shall be the potential to emit of the individual HAP. Stack parameters used in the model shall be representative of actual stack parameters including height, diameter, flow rate/velocity, temperature, etc. If Ford Motor Company Kansas City Assembly Plant wishes to use values other than the default values for any parameter with a default value, Ford Motor Company Kansas City Assembly Plant shall submit justification and obtain approval for the proposed value prior to use in the model.

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9. Capture and Control Equipment
- A. The specified control device (e.g. thermal oxidizer, carbon adsorber, and/or fluidized bed carbon concentrator) must be in use at all times when a control efficiency is claimed for compliance with the VOC emissions limitation. When a control efficiency is claimed, the control device shall be operated and maintained in accordance with the manufacturer's specifications and within the temperature range determined in Special Condition 10.
- B. Thermal Oxidizer Requirements
- 1) The operating temperature shall be continuously monitored and recorded when a control efficiency is claimed for compliance with the VOC emissions limitation. The operating temperature of the thermal oxidizer shall be maintained on a rolling three-hour average within fifty degrees Fahrenheit of the average temperature of the oxidizer recorded during the compliance test specified in Special Condition 10. The acceptable temperature range may be re-established by performing a new set of emission tests. The most recent sixty months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request.
 - 2) An assessment of thermal oxidizer valve operation and leakage shall be conducted as part of the maintenance and inspection activities, at least annually.
- C. Carbon Adsorber and Fluidized Bed Concentrator Requirements
- 1) Ford Motor shall monitor the emissions from the carbon adsorption and/or fluidized bed concentrator unit with an appropriate monitoring device to ensure that "breakthrough" has not occurred when a control efficiency is claimed for compliance with the VOC emissions limitation.
 - 2) The desorption gas inlet temperature shall be continuously monitored and recorded when a control efficiency is claimed for compliance with the VOC emissions limitation. The recorders shall be installed within one hundred eighty days of the issuance of the operating permit. The desorption gas inlet temperature of the carbon adsorber and/or fluidized bed concentrator shall be maintained on a rolling three-hour average within fifteen degrees Fahrenheit of the average temperature of the inlet temperature recorded during the compliance test specified in Special Condition 10. The acceptable temperature range may be re-established by performing a new set of emission tests. The most recent sixty months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request.
- D. Capture Equipment Requirements
- 1) Ford Motor Company Kansas City Assembly Plant shall evaluate all pre-approved changes that involve VOC emissions directed to emission control equipment for potential impacts to emission control equipment capture efficiency. This evaluation shall include the following:
 - a) An impact analysis of the pre-approved change on the capture efficiency;
 - b) An determination of the need for a new capture efficiency test based on the impact analysis;
 - c) A summary of the evaluation to be included in the Notification of Actual Construction as stated in Special Condition 5.
 - 2) Ford Motor Company Kansas City Assembly Plant shall develop a monitoring plan for each capture system (booth) that:

- a) Identifies the operating parameter(s) to be monitored to assure capture efficiency,
 - b) Explains why this parameter is appropriate for demonstrating on-going compliance,
 - c) Identifies the specific monitoring procedures, and
 - d) Specifies the operating parameter value or range of values (or the procedures for establishing the values) that shall be maintained to demonstrate capture efficiency is being maintained.
- 3) Ford Motor Company Kansas City Assembly Plant shall install and maintain, for any intermittently controllable work station, a system to monitor when bypass of the control device system occurs while the work station is in operation.
 - 4) Ford Motor Company Kansas City Assembly Plant shall maintain an operating and maintenance log for the capture and control systems (enclosures and thermal oxidizers) for a period of sixty months which shall include the following:
 - 5) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 6) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
 - 7) A written record of regular inspection schedule, the date and results of all inspections including any actions or maintenance activities that result from that inspection.

10. Performance Testing

- A. Ford Motor Company Kansas City Assembly Plant shall conduct performance tests on existing control devices in the following table and any future control devices used for compliance with the PAL.

Control Device	Location Description
Thermal Oxidizer	Passenger Topcoat Ovens RTO
	Commercial Guidecoat Booth RTO
	Commercial Guidecoat Oven RTO
	Commercial Topcoat Booth RTO
	Commercial Topcoat Ovens RTO
Carbon Wheel	Commercial Guidecoat Booth Carbon Wheel 1
	Commercial Guidecoat Booth Carbon Wheel 2
	Commercial Topcoat Carbon Wheel 3
	Commercial Topcoat Carbon Wheel 4
	Commercial Topcoat Carbon Wheel 5
	Commercial Topcoat Carbon Wheel 6

Ford Motor Company Kansas City Assembly Plant shall determine the VOC and HAP destruction and/or removal efficiencies and operating parameters of these control devices when all the processes controlled by these devices are in normal operation. These control efficiencies will be used in Attachment A for compliance.

- B. For each capture system, Ford Motor Company Kansas City Assembly Plant shall:
 - 1) Confirm that the capture system continues to meet the requirements of EPA Method 204 from an approved performance test with no changes to operating parameters, or
 - 2) Conduct a performance test to determine the capture efficiency and establish the value or range of values for the selected operating parameter(s) when all the processes controlled by these devices are in normal operation. These capture efficiencies shall be used in Attachment A for compliance.
- C. Section 6 of EPA method 204 of 40 CFR Part 51, Appendix M shall be used to confirm that an enclosure meets the requirements for permanent total enclosures. If the enclosure meets the permanent total enclosure criteria and directs all VOC to a control device, a capture efficiency of 100 percent may be assumed.
- D. Henceforth, within five years of the most recent performance tests, Ford Motor Company Kansas City Assembly Plant shall; by December 31, 2008, for the Commercial Paint Shop:
 - 1) Conduct performance tests to verify the operating parameters and/or the control efficiencies of the control devices ; and
 - 2) Confirm the capture efficiencies of the total or partial enclosures by Special Condition 10.B.1) or 10.B.2).

For any control device installed subsequent to the issuance of this construction permit, performance tests shall be performed within sixty days after installation, but not later than one hundred eighty days after initial start-up of the control equipment.
- E. Testing shall be conducted in accordance with the procedures outlined in Special Condition 11. Ford Motor Company Kansas City Assembly Plant shall maintain a record of the results of all performance tests required by Special Conditions 10.A. and 10.B.

11. Proposed Test Plan

- A. A completed Proposed Test Plan Form (enclosed) must be submitted to the Air Pollution Control Program's Enforcement Section, within thirty days prior to the proposed test date so that the Air Pollution Control Program's Enforcement Section, may arrange a pretest meeting, if necessary, and assure that the test date is acceptable for an observer to be present. The Proposed Test Plan may serve the purpose of notification and must be approved by the staff director prior to conducting the required emission testing.
- B. Two copies of a written report of the performance test results shall be submitted to the staff director within thirty days of completion of any required testing, unless an extension is requested and approved by the staff director. The extension must be submitted in writing at least ten days prior to the thirty day deadline. The report must include legible copies of the raw data sheets, analytical instrument laboratory data and complete sample calculations from the required U.S. EPA Method for at least one sample run.
- C. The test report is to fully account for all operational and emission parameters addressed both in the construction permit conditions as well as in any other applicable state or federal rules or regulations.

12. Startup, Shutdown, and Malfunction Requirement

- A. Ford Motor Company Kansas City Assembly Plant shall develop and implement an operation and maintenance plan to minimize the instances of excess emissions during

start-up, shutdown and malfunction. The operation and maintenance plan shall detail procedures for maintaining, repairing and operating the various sources and their controls during all periods of operation, including start-up, shutdown and malfunction. The operation and maintenance plan shall also comply with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown and Malfunction Conditions*.

13. Reopening of the Construction Permit

- A. The permitting authority may reopen Construction Permit 042008-001 to accomplish the following actions:
 - 1) Revise Special Condition 2 to reflect an increase in the PAL as outlined in Special Condition 18.
 - 2) Reduce the PAL to reflect newly applicable Federal and/or State requirements with compliance dates after the issuance of this construction permit.
 - 3) Reduce the PAL if the permitting authority determines that a reduction is necessary to avoid causing or contributing to a National Ambient Air Quality Standard or Prevention of Significant Deterioration increment violation, or to an adverse impact on air quality in a Class I area.
- B. All reopenings that increase the PAL level are required to be placed on public notice for at least a thirty day period for submittal of public comment.

14. PAL Effective Period

The PAL in Special Condition 2 will be effective for ten years, until March 31, 2018.

15. Permit Application Submission Requirements

- A. Between six and eighteen months prior to the expiration of the PAL in Special Condition 2, Ford Motor Company Kansas City Assembly Plant shall submit a complete application for the renewal or expiration of the PAL in Special Condition 2. For PAL renewal, Ford Motor Company Kansas City Assembly Plant will be required to comply with Special Condition 16. For PAL expiration, Ford Motor Company Kansas City Assembly Plant will be required to comply with Special Condition 17.
- B. Once a complete application according to Special Condition 15.A. is received by the permitting authority, the PAL in Special Condition 2 will remain in effect until a revised PAL or a revised permit incorporating allowable limits is issued by the permitting authority.
- C. Failure to submit a complete application according to Special Condition 15.A. to the permitting authority at least six months prior to the expiration of the PAL is a violation of this construction permit and will result in the termination of the PAL on the date of expiration. At the time of termination, Ford Motor Company Kansas City Assembly Plant will be required to comply with Special Condition 17.

16. PAL Renewal Requirements

- A. A complete application shall consist of written documentation and/or calculations for the following items:
 - 1) A proposed PAL level;
 - 2) A list of all emissions units with applicable Federal or State requirements;
 - 3) The potential emissions of all current equipment at the installation;
 - 4) Identification of the baseline period;

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- 5) Baseline actual emissions; and
 - 6) A compliance plan for the proposed PAL.
 - B. The permitting authority will have the final authority to set the new plantwide emissions limitation based on the following guidelines:
 - 1) If the baseline actual emissions at the time of renewal are equal to or greater than eighty percent of the PAL, the PAL may be renewed at the same level.
 - 2) The PAL may not be set at a level that is greater than the potential to emit of the entire installation.
 - 3) The PAL shall be adjusted to account for any applicable State or Federal requirement with a compliance date that occurs during the effective period of this PAL.
 - 4) A PAL level higher than the current PAL level cannot be approved unless otherwise approved through Special Condition 18.
 - C. Any request to renew the PAL level is required to be placed on public notice for at least a thirty day period for submittal of public comment.
 17. Expiration of the PAL
 - A. If Ford Motor Company Kansas City Assembly Plant does not wish to renew the PAL of this construction permit, Ford Motor Company Kansas City Assembly Plant shall apply for and obtain a construction permit for each emissions unit (or each group of emissions units) that existed under the PAL.
 - B. A complete application shall consist of a proposed allowable emission limitation for each emissions unit (or each group of emissions units) by distributing the PAL allowable emissions for the installation among each of the emissions units that existed under the PAL. If the PAL had not yet been adjusted for an applicable requirement that became effective during the PAL effective period, such distribution shall be made as if the PAL had been adjusted.
 - C. The PAL in Special Condition 2 will remain in effect until a revised construction permit is issued by the permitting authority.
 - D. Any physical change or change in the method of operation at the installation that meets the definition of major modification will be subject to major construction permitting requirements.
 - E. Ford Motor Company Kansas City Assembly Plant shall continue to comply with any State or Federal applicable requirements that may have applied either during the PAL effective period or prior to the PAL effective period except for the emissions limitations that are superceded in Special Condition 1.
 18. Increase of the PAL during the Effective Period
 - A. If Ford Motor Company Kansas City Assembly Plant wishes to alter Special Condition 2 of this construction permit to allow the installation to emit more than 2,363 tons per year of VOC, Ford Motor Company Kansas City Assembly Plant shall submit a complete application to request an increase in the PAL meeting all the requirements for a major modification.

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- B. A complete application shall consist of written documentation and/or calculations to accomplish the following items:
 - 1) Identify the emissions units contributing to the increase in emissions so as to cause Ford Motor Company Kansas City Assembly Plant's emissions to equal or exceed the PAL in Special Condition 2.
 - 2) Determine the Best Available Control Technology (BACT) equivalent controls for each emission unit using current technology.
 - 3) Demonstrate that the sum of the baseline actual emissions of the small emissions units, plus the sum of the baseline actual emissions of the significant and major emissions units assuming application of BACT equivalent controls, plus the sum of the allowable emissions of the new or modified emissions units exceeds the PAL.
 - 4) Comply with the provisions of a current BACT analysis for all emissions unit(s) identified in Special Condition 18.B(1) in accordance with the requirements of 10 CSR 10-6.060 section (8) regardless of the magnitude of the emissions increase resulting from them.
 - C. The revised PAL shall be effective on the day any emissions unit that is part of the PAL major modification becomes operational and begins to emit VOC.
 - D. The revised PAL level shall be placed on public notice for at least a thirty day period for submittal of public comment.
19. Requirements for the Early Termination of the PAL
- A. If Ford Motor Company Kansas City Assembly Plant wishes to terminate the PAL in Special Condition 2 of this construction permit, Ford Motor Company Kansas City Assembly Plant will be required to comply with the provisions of State Rule 10 CSR 10-6.060.
 - B. Activities that are subject to Special Condition 19.A. are any physical and/or operational changes performed after issuance of this construction permit and in accordance with this construction permit.
 - C. Upon termination of the PAL, this construction permit will be void and all previously issued construction permits cited in Special Condition 1 will be re-instated.
 - D. The new construction permit will include a BACT analysis utilizing current technologies, a netting analysis performed by the installation and any other requirements that the permitting authority deems necessary pursuant to 10 CSR 10-6.060 Section 8. The results of the BACT and netting analyses shall be submitted to the permitting authority for review and approval.
 - E. If Ford Motor Company Kansas City Assembly Plant requests termination of the PAL during the effective period, the PAL in Special Condition 2. will remain in effect until a valid construction permit is issued by the permitting authority pursuant to 10 CSR 10-6.060.
20. Records Retention Requirement
- A. Ford Motor Company Kansas City Assembly Plant shall maintain all records required by this construction permit for not less than ten years unless otherwise specified in a special condition.
 - B. Ford Motor Company Kansas City Assembly Plant shall make these records available immediately to any Missouri Department of Natural Resources' personnel upon request.

21. Reporting Requirement

- A. Ford Motor Company Kansas City Assembly Plant shall submit a semi-annual emissions report to the permitting authority within thirty days after the end of each reporting period.
- B. The reporting periods are January 1 - June 30, and July 1 – December. The report shall contain the following information:
 - 1) Identification of owner and operator and the permit number;
 - 2) Total annual emissions in tons per year based on a twelve-month rolling total for each month in the reporting period;
 - 3) A summary of all data relied upon, including but not limited to, any Quality Assurance or Quality Control data, in calculating the monthly and annual VOC emissions;
 - 4) A list of any emissions units modified or added to the installation during the preceding six-month period;
 - 5) The number, duration, and cause of any deviations or monitoring malfunctions, and any corrective action taken;
 - 6) A notification of shutdown of any monitoring system, whether the shutdown was permanent or temporary, the reason for the shutdown, the anticipated date that the monitoring system will be fully operational or replaced with another monitoring system, and whether the emissions unit monitored by the monitoring system continued to operate, and the calculation of the emissions of VOC;
 - 7) A signed statement by the responsible official certifying the truth, accuracy, and completeness of the information provided in the report.
- C. Ford Motor Company Kansas City Assembly Plant shall submit reports to the permitting authority within ten days of any deviations or exceedance of permitting requirements. The report shall contain the following information:
 - 1) The identification of owner and operator and the permit number;
 - 2) The permit requirement that experienced the deviation or that was exceeded;
 - 3) Emissions resulting from the deviation or the exceedance; and
 - 4) A signed statement by the responsible official certifying the truth, accuracy, and completeness of the information provided in the report.

22. Quality Assurance/Quality Control Plan

- A. Ford Motor Company Kansas City Assembly Plant shall maintain an operation and maintenance plan on site at all times. A table of contents of the plan shall be submitted to the permitting authority within sixty days of the issuance of this construction permit and updated within sixty days of receipt of the performance test reports required of Special Condition 11. The plan shall be a detailed, specific to the Kansas City Assembly Plant and include the following information:
 - 1) A preventative maintenance program for avoidance of excess emissions which shall include all maintenance activities, with inspection schedule, repair actions, and replacements inventory.
 - 2) A range of operating conditions and outlet variables for normal operation.
 - 3) A summary of operating conditions and outlet variables for all control equipment that will be monitored for malfunction or breakdown and a description of the method of detecting and informing responsible personnel of any malfunction or breakdowns, including alarm systems, lights and other indicators.

- 4) A description of the generic corrective procedures that will be taken in the event of a malfunction or breakdown in order to restore compliance with the applicable emission limitations and permit conditions (e.g. reducing of production rate).

23. Emission Limitation for Non-VOC pollutants

- A. Ford Motor Company Kansas City Assembly Plant shall maintain documentation of the summation of the potential emissions of all criteria air pollutants except VOC from completed and proposed pre-approved changes. Attachment D, or equivalent forms approved by the permitting authority shall be used for this purpose.
- B. If the records from Special Condition 23.A. indicate that the summation of potential emissions of any criteria air pollutant exceeds its respective de minimis level as indicated in Special Condition 23.B.(1), Ford Motor Company Kansas City Assembly Plant shall comply with the provisions of Special Condition 23.B.(1)-(3) for that particular pollutant.
 - 1) Ford Motor Company Kansas City Assembly Plant shall emit less than the following amounts for each listed criteria air pollutant in any consecutive twelve month period from all equipment, which has been installed under the authority of pre-approved changes set forth in Special Condition 4.A. and listed in Attachment B, *Pre-Approved Changes*:

Pollutant	Limitation
Particulate Matter less than 10 microns in diameter (PM ₁₀)	15.0
Sulfur Oxides (SO _x)	40.0
Nitrogen Oxides (NO _x)	40.0
Carbon Monoxide (CO)	100.0
Sulfur acid mist	7.0
Hydrogen Sulfide	10.0
Lead	0.6

- 2) Ford Motor Company Kansas City Assembly Plant shall track and calculate the monthly emissions of the listed criteria air pollutants in Special Condition 23.B (1) from all equipment listed in Attachment B, *Pre-Approved Changes*. Attachment E, or equivalent forms approved by the permitting authority shall be used to demonstrate compliance with Special Conditions 23.B.(1).
- 3) Ford Motor Company Kansas City Assembly Plant shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records from Special Condition Number 23.B(2) indicate that the source exceeds the limitation of Special Conditions Number 23.B(1).

24. Emission Limitations from Previous Construction Permits

- A. Nitrogen Oxide Limitation from Construction Permit 112000-014(A)
 - 1) Ford Motor Company Kansas City Assembly Plant shall emit no more than 31.6 tons of nitrogen oxides (NO_x) in any twelve-month consecutive period from the seven 20 million BTU per hour low NO_x, direct-fired, natural gas space heaters permitted herein. Ford Motor Company Kansas City Assembly Plant shall

- maintain a monthly record of the amount of natural gas burned to demonstrate compliance with this limitation.
 - 2) Attachment F or an equivalent form approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 24.A.
 - B. VOC Content Limitation from Permit Number: 1089-001A
 - 1) Ford Motor Company Kansas City Assembly Plant shall maintain an emission limit of 8.5 pounds per gallon applied coating solvents (24-hour basis) for the Commercial Topcoat (truck topcoat) only.
 - 2) Ford Motor Company Kansas City Assembly Plant must keep records for each coating demonstrating the daily volume-weighted average emission rate in pounds of VOC per gallon applied coating solvents for the Commercial Topcoat (truck topcoat) only.
 - C. VOC Content Limitation from Construction Permit 0690-016 (EU0140 - Commercial Sealer)
 - 1) Ford Motor Company Kansas City Assembly Plant must meet an emission limit of 0.16 kilograms VOC per liter of applied coating solids.
 - 2) Ford Motor Company Kansas City Assembly Plant must follow the testing guidelines contained in 60.393 of Supart MM, and use the reference methods and procedures contained in 60.396.
 - 3) Testing must be done within sixty days after reaching maximum production rate, but not later than one hundred eighty days after the initial startup date when production vehicles travel through the oven.
 - 4) (Initial testing has been completed within original condition requirements. Any further testing of this equipment will be covered under Special Conditions 10 and 11 of this PAL permit.)
 - D. VOC Content Limitation from Construction Permit 0594-034
 - 1) Ford Motor Company Kansas City Assembly Plant shall meet an emission limit of 13.1 pounds of VOC per gallon of applied coating solids from the operation of the passenger topcoat system.
 - 2) Ford Motor Company Kansas City Assembly Plant must keep records for each coating demonstrating the daily volume-weighted average emission rate in pounds of VOC per gallon applied coating solids for the passenger topcoat system.
 - E. Ford Motor Company Kansas City Assembly Plant shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the end of the month during which the records from Special Condition 24 indicate that the source exceeds the emission limitation of Special Condition 24.
- 25. Operational Requirements from Previous Construction Permits
 - A. Stack Identifications from Permit Number: 1089-001A
 - 1) Ford Motor Company Kansas City Assembly Plant shall supply the Air Pollution Control Program blueprints showing rooftop locations of all exhaust stacks for both existing and new stacks.
 - B. Each stack must be identified by the associated source operation name and a short code that Ford chooses.
 - C. There must be a unique code for all stacks associated with each new process. Ford must physically paint these codes onto the corresponding exhaust stacks on the roof.

- D. The code system Ford uses can be symbols (alpha/numeric), color bars, or another system approved by the personnel.
 - E. This action will allow department personnel to identify which source is not meeting regulatory requirements, if the situation occurs.
 - F. This condition must be met no later than ninety days after start-up. Start-up is when production vehicles begin to travel through the new truck line.
 - G. Fluidized Bed Skid Cleaner Requirements from Construction Permit 042006-012
 - 1) Ford Motor Company Kansas City Assembly Plant shall use the fluidized bed skid cleaner (EP49) exclusively to remove non-chlorinated/non-hazardous coatings from metal parts.
 - 2) Natural gas or propane shall be the only fuels burned in the fluidized bed skid cleaner (EP49).
26. Emergency Equipment Requirements
- A. The operating hours of the emergency generator shall not exceed five hundred hours in any consecutive twelve month period. To facilitate the record keeping for this condition, the emergency generator shall be equipped with a non-resettable running time meter.
 - B. Attachment G or an equivalent form shall be used to record the hours of operation. These records shall include the operating hours for that month and the total hours of operation for the previous twelve month period.
 - C. Ford Motor Company Kansas City Assembly Plant shall report to the Air Pollution Control Program's (APCP) Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the end of the month during which the records from Special Condition 26.B. indicate that the source exceeds the Special Condition 26.A.

II. 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.

Passenger Paint Line EU0010 through EU0105		
Emission Unit	Description	2007 EIQ Reference #
EU0010	Passenger Body Shop – Passenger Body Shop Welding and Grinding, Passenger Body Shop Sealer	EP-49 & EP42
EU0020	Passenger Electrocoat (E-Coat) – Passenger E-Coat Tank, Passenger E-Coat Oven	EP-02 & EP-03
EU0030	Passenger Sealer – Passenger Sealer Deck, Passenger Sealer Oven	EP-04
EU0040	Passenger PVC Enclosure – Passenger PVC Booth, Passenger PVC Oven	EP-05 & EP-06
EU0050	Passenger Guidecoat – Passenger Guidecoat Booth, Passenger Guidecoat oven, Passenger Guidecoat Purge and Clean	EP-07, EP-08, EP-39 & EP-41
EU0060	Passenger Topcoat – Passenger Topcoat Booth 1, Passenger Topcoat Booth 2, Passenger Topcoat Oven 1, Passenger Topcoat Oven 2, Passenger Topcoat Purge and Clean, Passenger Spot Repair	EP-09, EP-10, EP-11, EP-12, EO-39, EP-41 & EP-24
EU0070	Passenger Wax	EP-13
EU0080	Passenger Blackout Booth	EP-31
EU0090	Passenger Final Repair – Passenger Final Repair Booth, Passenger Final Repair Oven	EP-26 & EP-27
EU0100	Passenger Glass Install – Passenger Windshield Glass Install, Passenger Quarterglass Install	EP-48
EU0105	Passenger Ditch Molding	EP-47

Commercial Paint Line EU0120 through EU0190		
Emission Unit	Description	2007 EIQ Reference #
EU0120	Commercial Body Shop – Commercial Body Shop Welding and Grinding, Commercial Body Shop Sealer	EP-49 & EP-42
EU0130	Commercial Electrocoat (E-Coat) – Commercial E-Coat Tank, Commercial E-Coat Oven	EP15 & EP16
EU0140	Commercial Sealer – Commercial Sealer Deck, Commercial Sealer Oven	EP-17
EU0150	Commercial Guidecoat – Commercial Guidecoat Booth, Commercial Guidecoat Oven, Commercial Guidecoat Purge and Clean	EP-18, EP-19, EP-39 & EP-41
EU0160	Commercial Topcoat – Commercial Topcoat Booth, Commercial Tutone Booth, Commercial Topcoat Oven, Commercial Tutone Oven, Commercial Spot Repair, Commercial Topcoat Purge and Clean	EP-20, EP-21, EP-22, EP-23, EP24, EP-39 & EP41
EU0170	Commercial Blackout Booth	EP-25
EU0180	Commercial Final Repair – Commercial Final Repair Booth, Commercial Final Repair Oven	EP-26 & EP-27
EU0190	Commercial Glass Install – Commercial Windshield Glass Install	EP-42

Paint Line Solvent Storage/Cleaning and Miscellaneous Processes EU0300 and EU0320 through EU0380		
Emission Unit	Description	2007 EIQ Reference #
EU0300	Miscellaneous Solvent Use	EP-42
EU0320	Passenger Scrap Paint Tank	EP-38
EU0330	Passenger Spent Solvent Tank	EP-38
EU0340	Passenger Paint Mix Room	EP-46
EU0350	Commercial Scrap Paint Tank	EP-38
EU0360	Commercial Spent Solvent Tank	EP-38
EU0370	Commercial Paint Mix Room	EP-46
EU0380	Paint Stripper	EP-29

**PERMIT CONDITION [(EU0010 through EU0105), (EU0120 through EU0190),
EU0300, (EU0320 through EU0380)]-001**

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations

40 CFR Part 63 Subpart III

National Emission Standards for Hazardous Air Pollutants: Surface Coating for Automobiles and
Light-Duty Trucks

Emission Limitations:

- 1) Except as provided in §63.3091(b) [Condition 3.], the permittee must limit combined organic HAP emissions to the atmosphere from electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c) to no more than **0.072 kg/liter (0.60 lb/gal)** of coating solids deposited during each month, determined according to the requirements in §63.3161. [40 CFR 63.3091(a)]
- 2) If the permittee meets the operating limits of either §63.3092(a) or (b), the facility may choose to comply with the emission limits of §63.3091(b) [Condition 3.] instead of the emission limits of §63.3091(a) [Condition 1.] .
 - a) Each individual material added to the electrodeposition primer (e-coat) system contains no more than: [40 CFR 63.3092(a)]
 - i) 1.0 percent by weight of any organic HAP; and
 - ii) 0.10 percent by weight of any organic HAP which is an Occupational Safety and Health Administration (OSHA)-defined carcinogen as specified in 29 CFR 1910.1200(d)(4).
 - b) Emissions from all bake ovens used to cure electrodeposition primers (e-coat) must be captured and ducted to a control device having a destruction or removal efficiency of at least ninety-five percent. [40 CFR 63.3092(b)]
- 3) If the permittee meets the operating limits of either §63.3092(a) or (b) [Condition 2.], the permittee must either meet the emission limits of §63.3091(a) [Condition 1.] or limit combined organic HAP emissions to the atmosphere from primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c) to no more than **0.132 kg/liter (1.10 lb/gal)** of coating solids deposited during each month, determined according to the requirements in §63.3171. [40 CFR 63.3091(b)]
- 4) The permittee must limit average organic HAP emissions from all adhesive and sealer materials other than materials used as components of glass bonding systems to no more than **0.010 kg/kg (lb/lb)** of adhesive and sealer material used during each month. [40 CFR 63.3091(c)]
- 5) The permittee must limit average organic HAP emissions from all deadener materials to no more than **0.010 kg/kg (lb/lb)** of deadener material used during each month. [40 CFR 63.3091(d)]
- 6) If the facility has multiple paint lines, then for the operations addressed in Conditions 1 through 5 above: [40 CFR 63.3091(f)]
 - a) The permittee may choose to use a single grouping under §63.3091(a) (Condition 1) for all of the electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations.

- b) The permittee may choose to use a single grouping under §63.3091(b) (Condition 3) for all of the primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations, as long as each of the electrodeposition primer systems meets the operating limits of §63.3092(a) or (b).
- c) The permittee may choose to use one or more groupings under §63.3091(a) (Condition 1) for the electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations from one or more of your paint lines; and one or more groupings under §63.3091(b) (Condition 3) for the primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations from the remainder of the paint lines, as long as each electrodeposition primer system associated with each paint line you included in a grouping under §63.3091(b) (Condition 3) meets the operating limits of §63.3092(a) or (b).
- d) The permittee may choose to consider the electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations from each of the paint lines as a separate grouping under either §63.3091(a) or (b). The electrodeposition primer system associated with each paint line you choose to consider in a grouping under §63.3091(b) (Condition 3) must meet the operating limits of §63.3092(a) or (b).

Operating Limits and Standards:

- 1) The permittee is not required to meet any operating limits for any coating operation(s) without add-on controls. [40 CFR 63.3093(a)] (*NOTE: Add-on controls are any controls on the coating operation that are essential to meeting the emission limitations of this rule.*)
- 2) For any controlled coating operation(s), the permittee must meet the operating limits specified in Table 1 to 40 CFR Part 63 Subpart IIII (see Attachment H). These operating limits apply to the emission capture and add-on control systems on the coating operation(s) for which the facility uses this option, and the permittee must establish the operating limits during the performance test according to the requirements in §63.3167. The permittee must meet the operating limits at all times after they are established. [40 CFR 63.3093(b)]
- 3) If the permittee chooses to meet the emission limitations of §63.3092(b) and the emission limits of §63.3091(b), then the permittee must operate the capture system and add-on control device used to capture and control emissions from your electrodeposition primer (e-coat) bake oven(s) so that they meet the operating limits specified in Table 1 to 40 CFR Part 63 Subpart IIII (see Attachment H). [40 CFR 63.3093(c)]
- 4) The coating operations must be in compliance with the operating limits for emission capture systems and add-on control devices required by §63.3093 at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.3100(b)]
- 5) The permittee must always operate and maintain the affected source, including all air pollution control and monitoring equipment used for purposes of complying with this rule, according to the provisions in §63.6(e)(1)(i). [40 CFR 63.3100(d)]
- 6) If your affected source uses emission capture systems and add-on control devices, you must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3). The SSMP must address startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control devices. [40 CFR 63.3100(f)]

Work Practice Plan Requirements:

- 1) The permittee must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners, and cleaning materials used

in, and waste materials generated by, all coating operations for which emission limits are established under §63.3091(a) through (d). The plan must specify practices and procedures to ensure that, at a minimum, the following (elements specified in paragraphs §63.3094(b)(1) through (5)) are implemented: [40 CFR 63.3094(b)]

- a) All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers. [40 CFR 63.3094(b)(1)]
 - b) The risk of spills of organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be minimized. [40 CFR 63.3094(b)(2)]
 - c) Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes. [40 CFR 63.3094(b)(3)]
 - d) Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents. [40 CFR 63.3094(b)(4)]
 - e) Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment. [40 CFR 63.3094(b)(5)]
- 2) The permittee must develop and implement a work practice plan to minimize organic HAP emissions from cleaning and from purging of equipment associated with all coating operations for which emission limits are established under §63.3091(a) through (d). The plan shall, at a minimum, address each of the following operations (listed in §63.3094(c)(1) (i) through (viii)), in which the permittee uses organic-HAP-containing materials or in which there is a potential for emission of organic HAP: [40 CFR 63.3094(c)]
- a) Vehicle body wipes,
 - b) Coating line purging,
 - c) Flushing of coating systems,
 - d) Cleaning of spray booth grates,
 - e) Cleaning of spray booth walls,
 - f) Cleaning of spray booth equipment,
 - g) Cleaning of external spray booth areas,
 - h) And any other necessary housekeeping measures associated with this paint line that are not addressed above.
- 3) The work practice plans developed in accordance with §63.3094(b) and (c) are not required to be incorporated into this operating permit. Any revisions to the work practice plans developed in accordance with §63.3094 (b) and (c) do not constitute revisions to this operating permit. [40 CFR 63.3094(e)]
- 4) Copies of the current work practice plans developed in accordance with §63.3094(b) and (c), as well as plans developed within the preceding five years must be available on-site for inspection and copying by the permitting authority. [40 CFR 63.3094(f)]
- 5) The permittee must be in compliance with the work practice standards in §63.3094 at all times. [40 CFR 63.3100(c)]

Continuous Compliance Requirements:

- 1) To demonstrate continuous compliance with the applicable emission limit in §63.3091(a), the organic HAP emission rate for each compliance period, determined according to the procedures in §63.3161, must be equal to or less than the applicable emission limit in §63.3091(a). A compliance period consists of one month. Each month after the end of the initial compliance period described in §63.3160 is a compliance period consisting of that month. The permittee must perform the calculations in §63.3161 on a monthly basis. [40 CFR 63.3163(a)]

- 2) To demonstrate continuous compliance with the applicable emission limit in §63.3091(b), the organic HAP emission rate for each compliance period determined according to the procedures in §63.3171 must be equal to or less than the applicable emission limit in §63.3091(b). A compliance period consists of one month. Each month after the end of the initial compliance period described in §63.3170 is a compliance period consisting of that month. The permittee must perform the calculations in §63.3171 on a monthly basis. [40 CFR 63.3173(a)]
- 3) To demonstrate continuous compliance with the emission limits for adhesives sealers and deadeners, the mass average organic HAP content for each compliance period, determined according to §63.3151 (a) through (d), must be less than or equal to the applicable emission limit in §63.3090(c) and (d) or §63.3091 (c) and (d). A compliance period consists of one month. Each month after the end of the initial compliance period described in §63.3150 is a compliance period consisting of that month. [40 CFR 63.3152(a)]
- 4) If the organic HAP emission rate for any one month compliance period exceeds the applicable emission limit in §63.3091(a) or §63.3091(b), this is a deviation from the emission limitation for that compliance period and must be reported as specified in §63.3110(c)(6) and 63.3120(a)(6). [40 CFR 63.3163(b) and 40 CFR 63.3173(b)]
- 5) If the mass average organic HAP emission content for any compliance period exceeds the applicable emission limit in §63.3091(c) and (d), this is a deviation from the emission limitations for that compliance period and must be reported as specified in §63.3110(c)(6) and 63.3120(a)(5). [40 CFR 63.3152(a)]
- 6) The permittee must demonstrate continuous compliance with each operating limit required by §63.3093 that applies to the facility, as specified in Table 1 of this rule (see Attachment H). [40 CFR 63.3163(c)]
 - a) If an operating parameter is out of the allowed range specified in Table 1 of this rule (see Attachment H), this is a deviation from the operating limit that must be reported as specified in §63.3110(c)(6) and 63.3120(a)(6).
 - b) If an operating parameter deviates from the operating limit specified Table 1 of this rule (see Attachment H), then you must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation except as provided in §63.3161(p).
- 7) The permittee must meet the requirements for bypass lines in §63.3168(b) for control devices other than solvent recovery systems for which you conduct liquid-liquid material balances. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in §63.3110(c)(6) and 63.3120(a)(6). For the purposes of completing the compliance calculations specified in §63.3161(k), the permittee must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation. [40 CFR 63.3163(d)]
- 8) The permittee must demonstrate continuous compliance with the work practice standards in §63.3094. If the permittee did not develop a work practice plan, if the permittee did not implement the plan, or if permittee did not keep the records required by §63.3130(n), this is a deviation from the work practice standards that must be reported as specified in §63.3110(c)(6) and 63.3120(a)(6). [40 CFR 63.3163(e)]

- 9) If there were no deviations from the emission limitations, submit a statement as part of the semi-annual compliance report that you were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.3091(a), and the permittee achieved the operating limits required by §63.3093 and the work practice standards required by §63.3094 during each compliance period. [40 CFR 63.3163(f)]
- 10) Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency are not violations if the permittee demonstrates to the Air Pollution Control Program's (APCP) satisfaction that you were operating in accordance with §63.6(e)(1). The Air Pollution Control Program will determine whether deviations that occur during a period that is identified as a startup, shutdown, or malfunction are violations according to the provisions in §63.6(e). [40 CFR 63.3163(h)]
- 11) The permittee must maintain records as specified in §63.3130 and 63.3131. [40 CFR 63.3163(j)]

Recordkeeping:

The permittee must collect and keep the following records of the data and information collected in accordance with the applicable standard:

- 1) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. [40 CFR 63.3130(a)]
- 2) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP, the density and the volume fraction of coating solids for each coating, the mass fraction of organic HAP and the density for each thinner, and the mass fraction of organic HAP for each cleaning material. If the permittee conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, the permittee must keep a copy of the complete test report. If the permittee uses information provided by the manufacturer or supplier of the material that was based on testing, the permittee must keep the summary sheet of results provided by the manufacturer or supplier. If the permittee uses the results of an analysis conducted by an outside testing lab, the permittee must keep a copy of the test report. The permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier. [40 CFR 63.3130(b)]
- 3) For each month, the following records must be kept: [40 CFR 63.3130(c)]
 - a) For each coating used for electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive operations and for each coating, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c), a record of the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids.
 - b) For each thinner used for electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive operations and for each thinner, except for thinner used for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c), a record of the volume used in each month, the mass fraction organic HAP content, and the density.
 - c) For each deadener material and for each adhesive and sealer material, a record of the mass used in each month and the mass organic HAP content.

- d) A record of the calculation of the organic HAP emission rate for electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c) for each month if subject to the emission limit of §63.3091(a). This record must include all raw data, algorithms, and intermediate calculations. If the guidelines presented in the “Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,” EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), are used, the permittee must keep records of all data input to this protocol. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. These data must be provided to the permitting authority on request on paper, and in (if calculations are done electronically) electronic form.
 - e) A record of the calculation of the organic HAP emission rate for primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c) for each month if subject to the emission limit of §63.3091(b), and a record of the weight fraction of each organic HAP in each material added to the electrodeposition primer (e-coat) system if subject to the limitations of §63.3092(a). This record must include all raw data, algorithms, and intermediate calculations. If the guidelines presented in the “Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,” EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), are used, the permittee must keep records of all data input to this protocol. If these data are maintained as electronic files, the electronic files, as well as any paper copies, must be maintained. These data must be provided to the permitting authority on request on paper, and in (if calculations are done electronically) electronic form.
 - f) A record, for each month, of the calculation of the average monthly mass organic HAP content of:
 - i) Sealers and adhesives; and
 - ii) Deadeners.
- 4) A record of the name and volume of each cleaning material used during each month. [40 CFR 63.3130(d)]
 - 5) A record of the mass fraction of organic HAP for each cleaning material used during each month. [40 CFR 63.3130(e)]
 - 6) A record of the density for each cleaning material used during each month. [40 CFR 63.3130(f)]
 - 7) A record of the date, time, and duration of each deviation, and for each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction. [40 CFR 63.3130(g)]
 - 8) The records required by §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction. [40 CFR 63.3130(h)]
 - 9) For each capture system that is a PTE, the data and documentation you used to support a determination that the capture system meets the criteria in Method 204 of Appendix M to 40 CFR Part 51 for a PTE and has a capture efficiency of one hundred percent, as specified in §63.3165(a). [40 CFR 63.3130(i)]

- 10) For each capture system that is not a PTE, the data and documentation you used to determine capture efficiency according to the requirements specified in §63.3164 and 63.3165 (b) through (g), including any of the following records that apply: [40 CFR 63.3130(j)]
 - a) Records for a liquid-to-uncaptured-gas protocol using a temporary total enclosure or building enclosure. Records of the mass of total volatile hydrocarbon (TVH), as measured by Method 204A or F of Appendix M to 40 CFR Part 51, for each material used in the coating operation, and the total TVH for all materials used during each capture efficiency test run, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run, as measured by Method 204D or E of Appendix M to 40 CFR Part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of Appendix M to 40 CFR Part 51 for either a temporary total enclosure or a building enclosure.
 - b) Records for a gas-to-gas protocol using a temporary total enclosure or a building enclosure. Records of the mass of TVH emissions captured by the emission capture system, as measured by Method 204B or C of Appendix M to 40 CFR Part 51, at the inlet to the add-on control device, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run, as measured by Method 204D or E of Appendix M to 40 CFR Part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of Appendix M to 40 CFR Part 51 for either a temporary total enclosure or a building enclosure.
 - c) Records for panel tests. Records needed to document a capture efficiency determination using a panel test as described in §63.3165 (e) and (g), including a copy of the test report and calculations performed to convert the panel test results to percent capture efficiency values.
 - d) Records for an alternative protocol. Records needed to document a capture efficiency determination using an alternative method or protocol, as specified in §63.3165(f), if applicable.
- 11) The following records for each add-on control device organic HAP destruction or removal efficiency determination as specified in §63.3166: [40 CFR 63.3130(k)]
 - a) Records of each add-on control device performance test conducted according to §63.3164 and 63.3166.
 - b) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.
- 12) Records of the data and calculations you used to establish the emission capture and add-on control device operating limits as specified in §63.3167 and to document compliance with the operating limits as specified in Table 1 of this rule (see Attachment H) . [40 CFR 63.3130(l)]
- 13) Records of the data and calculations you used to determine the transfer efficiency for primer-surfacer and topcoat coatings and for all coatings, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082 (c). [40 CFR 63.3130(m)]
- 14) A record of the work practice plans required by §63.3094 (b) and (c) and documentation that the permittee is implementing the plans on a continuous basis. Appropriate documentation may include operational and maintenance records, records of documented inspections, and records of internal audits. [40 CFR 63.3130(n)]

- 15) For each add-on control device and for each continuous parameter monitoring system, a copy of the equipment operating instructions must be maintained on-site for the life of the equipment in a location readily available to plant operators and inspectors. The permittee may prepare the equipment operating instructions, or they may be provided by the equipment supplier or other third party. [40 CFR 63.3130(o)]
- 16) All required records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database. [40 CFR 63.3131(a)]
- 17) Except as provided in §63.3130(o), the permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in §63.10(b)(1). [40 CFR 63.3131(b)]
- 18) Except as provided in §63.3130(o), the permittee must keep each record on site for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). The permittee may keep the records off site for the remaining three years. [40 CFR 63.3131(c)]

Reporting:

- 1) The permittee shall report any deviations of these permit conditions to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III) [40 CFR 70.6(a)(3)(iii)(A)].
- 2) The permittee must report all deviations as defined in 40 CFR Part 63 Subpart IIII in the semi-annual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A). If the permittee submits a semi-annual compliance report along with, or as part of, the semi-annual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the semi-annual compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice in this subpart, its submission shall be deemed to satisfy any obligation to report the same deviations in the semi-annual monitoring report. However, submission of a semi-annual compliance report shall not otherwise affect any obligation you may have to report deviations from permit requirements to the permitting authority. [40 CFR 63.3120(a)(2)]
- 3) In addition to the requirements of 10 CSR 10-6.065(6)(C)1.C.(III), the semi-annual reports must contain the following information: [40 CFR 63.3120(a)(3)]
 - a) Company name and address.
 - b) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - c) Date of report and beginning and ending dates of the reporting period.
 - d) Identification of the compliance option specified in §63.3091(b) that was used for electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c) in the affected source during the initial compliance period.
 - e) If there were no deviations from the emission limitations, operating limits, or work practices in §63.3090, §63.3091, §63.3092, §63.3093, and §63.3094 that apply to the facility, the semi-annual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If the permittee used control devices to comply with the emission limits, and there were no periods during which the CPMS were out of control

as specified in §63.8(c)(7), the semi-annual compliance report must include a statement that there were no periods during which the CPMS were out of control during the reporting period. [40 CFR 63.3120(a)(4)]

- f) If there was a deviation from the applicable emission limits in §63.3091(c) and (d), for adhesives, sealers or deadeners, the semi-annual compliance report must contain the following information: [40 CFR 63.3120(a)(5)]
 - i) The beginning and ending dates of each month during which the monthly average organic HAP content exceeded the applicable emission limit in §63.3091(c) and (d).
 - ii) The volume and organic HAP content of each material used that is subject to the applicable organic HAP content limit.
 - iii) The calculation used to determine the average monthly organic HAP content for the month in which the deviation occurred.
 - iv) The reason for the deviation.
- g) If there was a deviation from the applicable emission limits in §63.3091(a) or (b), for combined electrodeposition primer (e-coat), primer-surfacer (guidecoat), topcoat, final repair, glass bonding primer and glass bonding adhesive, or combined primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to §63.3082(c), the semi-annual compliance report must contain the following information: [40 CFR 63.3120(a)(6)]
 - i) The beginning and ending dates of each month during which the monthly organic HAP emission rate exceeded the applicable emission limit in §63.3091(a) or (b).
 - ii) The calculation used to determine the monthly organic HAP emission rate in accordance with §63.3161 or §63.3171. The permittee does not need to submit the background data supporting these calculations, for example, information provided by materials suppliers or manufacturers, or test reports.
 - iii) The date and time that any malfunctions of the capture system or add-on control devices used to control emissions from these operations started and stopped.
 - iv) A brief description of the CPMS.
 - v) The date of the latest CPMS certification or audit.
 - vi) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - vii) The date and time period that each CPMS was out of control, including the information in §63.8(c)(8).
 - viii) The date and time period of each deviation from an operating limit in Table 1 of this rule (see Attachment H); date and time period of each bypass of an add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - ix) A summary of the total duration and the percent of the total source operating time of the deviations from each operating limit in Table 1 of this rule (see Attachment H) and the bypass of each add-on control device during the semi-annual reporting period.
 - x) A breakdown of the total duration of the deviations from each operating limit in Table 1 of this rule (see Attachment H) and bypasses of each add-on control device during the semi-annual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

- xi) A summary of the total duration and the percent of the total source operating time of the downtime for each CPMS during the semi-annual reporting period.
- xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control devices since the last semi-annual reporting period.
- xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions you took to correct the deviation.
- xiv) A statement of the cause of each deviation.
- h) If the permittee used the separate electrodeposition primer (e-coat) organic HAP content limits in §63.3092(a), and there was a deviation from these limits, the semi-annual compliance report must contain the following information: [40 CFR 63.3120(a)(7)]
 - i) Identification of each material used that deviated from the emission limit, and the dates and time periods each was used.
 - ii) The determination of mass fraction of each organic HAP for each material identified in paragraph (a)(7)(i) of this section. You do not need to submit background data supporting this calculation, for example, information provided by material suppliers or manufacturers, or test reports.
 - iii) A statement of the cause of each deviation.
- i) If the permittee used the separate electrodeposition primer (e-coat) bake oven capture and control limitations in §63.3092(b), and there was a deviation from these limitations, the semi-annual compliance report must contain the following information: [40 CFR 63.3120(a)(8)]
 - i) The beginning and ending dates of each month during which there was a deviation from the separate electrodeposition primer (e-coat) bake oven capture and control limitations in §63.3092(b).
 - ii) The date and time that any malfunctions of the capture systems or control devices used to control emissions from the electrodeposition primer (e-coat) bake oven started and stopped.
 - iii) A brief description of the CPMS.
 - iv) The date of the latest CPMS certification or audit.
 - v) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - vi) The date, time, and duration that each CPMS was out of control, including the information in §63.8(c)(8).
 - vii) The date and time period of each deviation from an operating limit in Table 1 of this rule (see Attachment H); date and time period of each bypass of an add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - viii) A summary of the total duration and the percent of the total source operating time of the deviations from each operating limit in Table 1 of this rule (see Attachment H) and the bypasses of each add-on control device during the semi-annual reporting period.
 - ix) A breakdown of the total duration of the deviations from each operating limit, Table 1 of this rule (see Attachment H), and bypasses of each add-on control device during the semi-annual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - x) A summary of the total duration and the percent of the total source operating time of the downtime for each CPMS during the semi-annual reporting period.
 - xi) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control devices since the last semi-annual reporting period.
 - xii) A statement of the cause of each deviation.

- j) If there was a deviation from an applicable work practice plan developed in accordance with §63.3094(b) or (c), the semi-annual compliance report must contain the following information:
[40 CFR 63.3120(a)(9)]
 - i) The time period during which each deviation occurred.
 - ii) The nature of each deviation.
 - iii) The corrective action(s) taken to bring the applicable work practices into compliance with the work practice plan.
- 4) If the permittee uses add-on control devices, the permittee must submit reports of performance test results for emission capture systems and add-on control devices no later than sixty days after completing the tests as specified in §63.10(d)(2). The permittee must submit reports of transfer efficiency tests no later than sixty days after completing the tests as specified in §63.10(d)(2).
[40 CFR 63.3120(b)]
- 5) If the permittee used add-on control devices had a startup, shutdown, or malfunction during the semi-annual reporting period, the permittee must submit the following reports: [40 CFR 63.3120(c)]
 - a) If the actions taken were consistent with the SSMP, the permittee must include the information specified in §63.10(d) in the semi-annual compliance report required by §63.3120(a).
 - b) If the actions were not consistent with the SSMP, the permittee must submit an immediate startup, shutdown, and malfunction report as described below:
 - i) The permittee must describe the actions taken during the event in a report delivered by facsimile, telephone, or other means to the Air Pollution Control Program within two working days after starting actions that are inconsistent with the plan.
 - ii) You must submit a letter to the Air Pollution Control Program within seven working days after the end of the event, unless the permittee has made alternative arrangements, as specified in §63.10(d)(5)(ii). The letter must contain the information specified in §63.10(d)(5)(ii).

Passenger Paint Line EU0020 through EU00090		
Emission Unit	Description	2007 EIQ Reference #
EU0020	Passenger Electrocoat (E-Coat) – Passenger E-Coat Tank, Passenger E-Coat Oven	EP-02 & EP-03
EU0030	Passenger Sealer – Passenger Sealer Deck, Passenger Sealer Oven	E-04
EU0040	Passenger PVC Enclosure – Passenger PVC Booth, Passenger PVC Oven	EP-05 & EP-06
EU0050	Passenger Guidecoat – Passenger Guidecoat Booth, Passenger Guidecoat oven, Passenger Guidecoat Purge and Clean	EP-07, EP-08, EP-39 & EP-41
EU0060	Passenger Topcoat – Passenger Topcoat Booth 1, Passenger Topcoat Booth 2, Passenger Topcoat Oven 1, Passenger Topcoat Oven 2, Passenger Topcoat Purge and Clean, Passenger Spot Repair	EP-09, EP-10, EP-11, EP-12, EO-39, EP-41 & EP-24
EU0070	Passenger Wax	EP-13
EU0080	Passenger Blackout Booth	EP-31
EU0090	Passenger Final Repair – Passenger Final Repair Booth, Passenger Final Repair Oven	EP-26 & EP-27

Commercial Paint Line EU0130 through EU0180		
Emission Unit	Description	2007 EIQ Reference #
EU0130	Commercial Electrocoat (E-Coat) – Commercial E-Coat Tank, Commercial E-Coat Oven	EP15 & EP16
EU0140	Commercial Sealer – Commercial Sealer Deck, Commercial Sealer Oven	EP-17
EU0150	Commercial Guidecoat – Commercial Guidecoat Booth, Commercial Guidecoat Oven, Commercial Guidecoat Purge and Clean	EP-18, EP-19, EP-39 & EP-41
EU0160	Commercial Topcoat – Commercial Topcoat Booth, Commercial Tutone Booth, Commercial Topcoat Oven, Commercial Tutone Oven, Commercial Spot Repair, Commercial Topcoat Purge and Clean	EP-20, EP-21, EP-22, EP-23, EP24, EP-39 & EP41
EU0170	Commercial Blackout Booth	EP-25
EU0180	Commercial Final Repair – Commercial Final Repair Booth, Commercial Final Repair Oven	EP-26 & EP-27

PERMIT CONDITION [(EU0020 through EU0090) & (EU0130 through EU0180)]-001

10 CSR 10-2.230

Control of Emissions From Industrial Surface Coating Operations

Emission Limitation:

The permittee shall not emit to the atmosphere any VOC from any surface coating operation in excess of the amount allowed in §6.230(4)(A) and (B), as given in Tables A and B below. These limits will apply across all application areas, flash-off areas and ovens used in an affected coating operation.

1) Table A: VOC Emission Limits Based on Solids Applied.

Surface Coating Operation	lbs VOC/gallons solids applied
Primer Surfacer	15.1
Topcoat (Passenger/SUV)	15.1
Topcoat (Truck/Commercial)	15.1

2) Table B: VOC Emission Limits Based on Weight of VOC per Gallon of Coating (minus water and non-VOC organic compounds).

Surface Coating Operation	lbs VOC/gallons coating (minus water)
Electrocoat Prime	1.2
Topcoat (Truck/Commercial)	3.6
Topcoat (Passenger/SUV)	3.6
Final Repair	4.8
Miscellaneous Metal Parts— Extreme Performance and Air-Dried Coatings	3.5

Monitoring:

Compliance with the limitations of this regulation shall be determined by the following methods, as applicable and appropriate.

- 1) For the emission limits in Table A, the calculation of daily volume-weighted emission performance for automobile and light-duty truck primer-surfacer and topcoat operations, shall be made according to procedures detailed in the Environmental Protection Agency (EPA) document entitled, *Protocol for Determining the Daily Volatile Organic Compound Emission Rate for Automobile and Light Duty Truck Topcoat Operations*, dated June 10, 1988.
- 2) For the emission limits in Table B,
 - a) Compliance with emission limits may be demonstrated using the method referenced in 10 CSR 10-6.030(14)(C) using the one-hour bake. Emission performance shall be on the basis of a daily volume-weighted average of all coatings used in each surface coating operation as delivered to the coating applicator(s) on a coating line. The daily volume-weighted average (DAVG_{vw}) is calculated by the following formula:

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

Where, A = daily gallons of each coating used (minus water and exempt solvents) in a surface coating operation.

B = pounds of VOC per gallon of coating (minus water and exempt solvents).

C = total daily gallons coating used (minus water and exempt solvents) in a surface coating operation.

n = number of all coatings used in a surface coating operation

- b) Compliance with the emission limits in Table B may also be demonstrated on pounds of VOC per gallon of coating solids basis. The demonstration is made by first converting the emission limit Table B to pounds of VOC per gallon of coating solids as shown in the following three (3) steps:

$$(1) \frac{\text{lbs VOC / gal coating}}{7.36 \text{ lbs / gal}} \left[\frac{\text{from Table B}}{\text{averagedensity of solvents}} \right] = \text{volume fraction of VOC}$$

$$(2) 1 - \text{volume fraction of VOC} = \text{volume fraction of solids}$$

$$(3) \frac{\text{lbs VOC / gal coating [from Table B]}}{\text{volume fraction of solids}} = \frac{\text{lbs VOC}}{\text{gal coating solids}}$$

This value (from step (3)) is the new compliance figure. The VOC per gallon of coating solids for each coating used is then determined using the method referenced in 10 CSR 10-6.030(14)(C), using the one-hour bake. The composite daily volume-weighted average of pounds of VOC per gallon of coating solids as tested for in the actual coatings used is compared to the new compliance figure. Source operations on a coating line using coatings with a composite actual daily volume-weighted average value less than or equal to the new compliance figure are in compliance with this regulation.

- 3) As an alternative to the methods specified in §6.230(5)(A) and (B), compliance with the emission limits specified in §6.230(4)(A) and (B) may be demonstrated by the implementation of an emission reduction equivalency compliance plan which utilizes a daily weighted average of emissions from a single or combination of source operations provided that—
- a) All source operations involved in the plan are subject to the emission limits of this regulation;
 - b) All source operations are part of the same installation;
 - c) The total actual VOC emissions for each twenty-four hour period do not exceed the sum of the allowable emissions determined from Section (4) for each source operation for the same period;
 - d) Equivalent emission reductions are accomplished in the time intervals allowed in §6.230(4)(B) as would be required for individual source operations;
 - e) After December 24, 1987, testing of raw materials, emissions, equipment, or a combination of these, must be performed prior to initiation of an alternate compliance plan to verify any equivalent emission reductions claimed. All test methods and procedures to be acceptable for use in the equivalency determination must receive prior review and must have been approved by the director. Failure to gain test method and procedure approval of the director will invalidate the equivalency claim; and

- f) The overall plan is approved by the director.

Recordkeeping:

- 1) The permittee shall keep records detailing specific VOC sources, as necessary to determine compliance. These may include:
 - a) The type and the quantity of coatings used daily;
 - b) The coating manufacturer's formulation data for each coating on forms provided or approved by the director;
 - c) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - d) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - e) The type and quantity of waste solvents reclaimed or discarded daily;
 - 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 permittee submits a demonstration approvable by the director that these records are adequate for the purposes of this regulation. This will apply for all surface coating industries until the EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.
- 3) All records shall be maintained onsite for a minimum of five years and shall be made available to Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation. Any deviations from this permit condition shall be reported in the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

Passenger Paint Line EU0020 & EU0060		
Emission Unit	Description	2007 EIQ Reference #
EU0020	Passenger Electrocoat (E-Coat) – Passenger E-Coat Tank, Passenger E-Coat Oven	EP-02 & EP-03
EU0060	Passenger Topcoat – Passenger Topcoat Booth 1, Passenger Topcoat Booth 2, Passenger Topcoat Oven 1, Passenger Topcoat Oven 2, Passenger Spot Repair	EP-09, EP-10, EP-11, EP-12 & EP-24

Commercial Paint Line EU0130 and EU0150 through EU0180		
Emission Unit	Description	2007 EIQ Reference #
EU0130	Commercial Electrocoat (E-Coat) – Commercial E-Coat Tank, Commercial E-Coat Oven	EP15 & EP16
EU0150	Commercial Guidecoat – Commercial Guidecoat Booth, Commercial Guidecoat Oven, Commercial Guidecoat Purge and Clean	EP-18, EP-19, EP-39 & EP-41
EU0160	Commercial Topcoat – Commercial Topcoat Booth, Commercial Tutone Booth, Commercial Topcoat Oven, Commercial Tutone Oven, Commercial Spot Repair,	EP-20, EP-21, EP-22, EP-23 & EP24
EU0170	Commercial Blackout Booth	EP-25
EU0180	Commercial Final Repair – Commercial Final Repair Booth, Commercial Final Repair Oven	EP-26 & EP-27

PERMIT CONDITION [EU0020, EU0060, EU0130, (EU0150 through EU0180)]-002
 10 CSR 10-6.070
 New Source Performance Regulations
 40 CFR Part 60 Subpart MM
 Standards for Performance for Automobile and Light Duty Truck Surface Coating Operations

Emission Limitations:

The permittee shall not discharge or cause the discharge into the atmosphere VOC emissions in excess of: [40 CFR 60.392]

- 1) Prime Coat Operation.
 - a) For each Electrodeposition (EDP) prime coat operation:
 - i) 0.17 kilogram of VOC per liter of applied coating solids when R_T (solids turnover ratio) is 0.16 or greater.
 - ii) $0.17 \times 350^{(0.160 - R_T)}$ kg of VOC per liter of applied coating solids when R_T is greater than or equal to 0.040 and less than 0.160.
 - iii) When R_T is less than 0.040, there is no emission limit.

- b) For each non-electrodeposition prime coat operation: 0.17 kilogram of VOC per liter of applied coating solids.
- 2) 1.40 kilograms of VOC per liter of applied coating solids from each guide coat operation.
- 3) 1.47 kilograms of VOC per liter of applied coating solids from each topcoat operation.

Monitoring:

The permittee shall use the following procedures for determining the monthly volume-weighted average mass of VOC emitted per volume of applied coating solids: [40 CFR 60.393(c)]

- 1) The permittee shall use the following procedures for each affected facility which does not use a capture system and a control device to comply with the applicable emission limit specified under §60.392.[40 CFR 60.393(c)(1)]
 - a) Calculate the volume-weighted average mass of VOC per volume of applied coating solids for each calendar month for each affected facility. 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 Method 24. The administrator may require the permittee, 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 Method 24 or an equivalent or alternative method. The permittee shall determine from company records on a monthly basis, the volume of coating consumed, as received, and the mass of solvent used for thinning purposes. The volume-weighted average of the total mass of VOC per volume of coating solids used each calendar month will be determined by the following procedures. [40 CFR 60.393(c)(1)(i)]
 - i) Calculate the mass of VOC used in each calendar month for each affected facility by the following equation where “n” is the total number of coatings used and “m” is the total number of VOC solvents used: [40 CFR 60.393(c)(1)(i)(A)]

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

Where, M_o = total mass of VOC in coatings as received (kilograms)

M_d = total mass of VOC in dilution solvent (kilograms)

L_{ci} = volume of each coating (i) consumed, as received (liters)

D_{ci} = density of each coating (i) as received (kilograms per liter)

W_{oi} = proportion of VOC by weight in each coating (i), as received

L_{dj} = volume of each type VOC dilution solvent (j) added to the coatings, as received (liters)

D_{dj} = density of each type VOC dilution solvent (j) added to the coatings, as received (kilograms per liter)

($\sum L_{dj} D_{dj}$ will be zero if no VOC solvent is added to the coatings, as received.)

- ii) Calculate the total volume of coating solids used in each calendar month for each affected facility by the following equation where “n” is the total number of coatings used: [40 CFR 60.393(c)(1)(i)(B)]

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

- Where, L_s = volume of solids in coatings consumed (liters)
 L_{ci} = volume of each coating (i) consumed, as received (liters)
 V_{si} = proportion of solids by volume in each coating (i) as received
- iii) Select the appropriate transfer efficiency (T) from the following tables for each surface coating operation: [40 CFR 60.393(c)(1)(i)(C)]

Application Method	Transfer Efficiency
Air Atomized Spray (waterborne coating)	0.39
Air Atomized Spray (solvent-borne coating)	0.50
Manual Electrostatic Spray	0.75
Automatic Electrostatic Spray	0.95
Electrodeposition	1.00

The values in the table above represent an overall system efficiency which includes a total capture of purge. If a spray system uses line purging after each vehicle and does not collect any of the purge material, the following table shall be used:

Application Method	Transfer Efficiency
Air Atomized Spray (waterborne coating)	0.30
Air Atomized Spray (solvent-borne coating)	0.40
Manual Electrostatic Spray	0.62
Automatic Electrostatic Spray	0.75

If the owner or operator can justify to the administrator's satisfaction that other values for transfer efficiencies are appropriate, the administrator will approve their use on a case-by-case basis.

When more than one application method (l) is used on an individual surface coating operation, the permittee shall perform an analysis to determine an average transfer efficiency by the following equation where “n” is the total number of coatings used and “p” is the total number of application methods:

$$T = \frac{\sum_{i=1}^n T_l V_{si} L_{cil}}{\sum_{i=1}^p L_s}$$

- Where, T_l = transfer efficiency for application method (l)
 L_{cil} = Volume of each coating (i) consumed by each application method (l), as received (liters)

- iv) Calculate the volume-weighted average mass of VOC per volume of applied coating solids (G) during each calendar month for each affected facility by the following equation: [40 CFR 60.393(c)(1)(i)(D)]

$$G = \frac{M_o + M_d}{L_s T}$$

Where, T = overall transfer efficiency

- v) For each EDP prime coat operation, calculate the turnover ratio (R_T) by the following equation: [40 CFR 60.393(c)(1)(i)(E)]

$$R_T = \frac{L_s}{L_E}, \text{ truncated after three decimal places}$$

Where, L_E = the total volume of the EDP system (liters)

Then calculate or select the appropriate limit according to §60.392(a).

- b) If the volume-weighted average mass of VOC per volume of applied coating solids (G), calculated on a calendar month basis, is less than or equal to the applicable emission limit specified in §60.392, the affected facility is in compliance. Each monthly calculation is a performance test for the purpose of this subpart. [40 CFR 60.393(c)(1)(ii)]
- 2) The permittee shall use the following procedures for each affected facility which uses a capture system and a control device that destroys VOC (e.g., incinerator) to comply with the applicable emission limit specified under §60.392. [40 CFR 60.393(c)(2)]
- a) Calculate the volume-weighted average mass of VOC per volume of applied coating solids (G) during each calendar month for each affected facility as described under §60.393(c)(1)(i). [40 CFR 60.393(c)(2)(i)]
- b) Calculate the volume-weighted average mass of VOC per volume of applied solids emitted after the control device, by the following equation: [40 CFR 60.393(c)(2)(ii)]

$$N = G \times [1 - (F \times E)]$$

Where, N = volume-weighted average mass of VOC per volume of applied coating solids after the

control device

F = fraction of total VOC which is emitted by an affected facility that enters the control device

E = VOC destruction or removal efficiency of the control device

- i) Determine the fraction of total VOC which is emitted by an affected facility that enters the control device. In subsequent months, the owner or operator shall use the most recently determined capture fraction for the performance test. [40 CFR 60.393(c)(2)(ii)(A)]
- ii) Determine the destruction efficiency of the control device using values of the volumetric flow rate of the gas streams and the VOC content (as carbon) of each of the gas streams in and out of the device by the following equation where “n” is the total number of stacks

entering the control device and “m” is the total number of stacks leaving the control device:
 [40 CFR 60.393(c)(2)(ii)(B)]

$$E = \frac{\left[\sum_{i=1}^n Q_{bi} C_{bi} \right] - \left[\sum_{j=1}^m Q_{aj} C_{aj} \right]}{\sum_{i=1}^n Q_{bi} C_{bi}}$$

Where, Q_{bi} = volumetric flow rate of the effluent gas flowing through stack (i) entering the control device (dry standard cubic meters per hour)

C_{bi} = concentration of VOC (as carbon) in the effluent gas flowing through stack (i) entering the control device (parts per million by volume)

Q_{aj} = volumetric flow rate of the effluent gas flowing through stack (j) leaving the control device (dry standard cubic meters per hour)

C_{aj} = concentration of VOC (as carbon) in the effluent gas flowing through stack (j) leaving the control device (parts per million by volume)

In subsequent months, the owner or operator shall use the most recently determined VOC destruction efficiency for the performance test.

- iii) If an emission control device controls the emissions from more than one affected facility, the owner or operator shall measure the VOC concentration (C_{bi}) in the effluent gas entering the control device (in parts per million by volume) and the volumetric flow rate (Q_{bi}) of the effluent gas (in dry standard cubic meters per hour) entering the device through each stack. The destruction or removal efficiency determined using these data shall be applied to each affected facility served by the control device. [40 CFR 60.393(c)(2)(ii)(C)]
- c) If the volume-weighted average mass of VOC per volume of applied solids emitted after the control device (N) calculated on a calendar month basis is less than or equal to the applicable emission limit specified in §60.392, the affected facility is in compliance. Each monthly calculation is a performance test for the purposes of this subpart. [40 CFR 60.393(c)(2)(iii)]
- 3) The owner or operator shall use the following procedures for each affected facility which uses a capture system and a control device that recovers the VOC (e.g., carbon adsorber) to comply with the applicable emission limit specified under §60.392. [40 CFR 60.393(c)(3)]
 - a) Calculate the mass of VOC ($M_o + M_d$) used during each calendar month for each affected facility as described under §60.393(c)(1)(i). [40 CFR 60.393(c)(3)(i)]
 - b) Calculate the total volume of coating solids (L_s) used in each calendar month for each affected facility as described under §60.393(c)(1)(i). [40 CFR 60.393(c)(3)(ii)]
 - c) Calculate the mass of VOC recovered (M_r) each calendar month for each affected facility by the following equation: [40 CFR 60.393(c)(3)(iii)]

$$M_r = L_r D_r$$

Where, L_r = volume of VOC recovered from an affected facility (liters)

D_r = density of VOC recovered from an affected facility (kilograms per liter)

- d) Calculate the volume-weighted average mass of VOC per volume of applied coating solids emitted after the control device during a calendar month by the following equation:
[40 CFR 60.393(c)(3)(iv)]

$$N = \frac{M_o + M_d - M_r}{L_s T}$$

- e) If the volume-weighted average mass of VOC per volume of applied solids emitted after the control device (N) calculated on a calendar month basis is less than or equal to the applicable emission limit specified in §60.392, the affected facility is in compliance. Each monthly calculation is a performance test for the purposes of this subpart. [40 CFR 60.393(c)(3)(v)]
- 4) The owner or operator of an affected facility which uses an incinerator to comply with the emission limits specified under §60.392 shall install, calibrate, maintain, and operate temperature measurement devices as prescribed below: [40 CFR 60.394]
- a) Where thermal incineration is used, a temperature measurement device shall be installed in the firebox. Where catalytic incineration is used, a temperature measurement device shall be installed in the gas stream immediately before and after the catalyst bed. [40 CFR 60.394(a)]
- b) Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ±5 percent of the temperature being measured expressed in degrees Celsius or ±2.5 °C. [40 CFR 60.394(b)]
- c) Each temperature measurement device shall be equipped with a recording device so that a permanent record is produced. [40 CFR 60.394(c)]

Recordkeeping/Reporting:

- 1) Following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Administrator every calendar quarter of each instance in which the volume-weighted average of the total mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under §60.392. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Administrator semi-annually. Where compliance is achieved through the use of a capture system and control device, the volume-weighted average after the control device should be reported. [40 CFR 60.395(b)]
- 2) Where compliance with §60.392 is achieved through the use of incineration, the permittee shall continuously record the incinerator combustion temperature during coating operations for thermal incineration or the gas temperature upstream and downstream of the incinerator catalyst bed during coating operations for catalytic incineration. The owner or operator shall submit a written report at the frequency specified in §60.7(c) and as defined below. [40 CFR 60.395(c)]
- a) For thermal incinerators, every three-hour period shall be reported during which the average temperature measured is more than 28 °C less than the average temperature during the most recent control device performance test at which the destruction efficiency was determined as specified under §60.393. [40 CFR 60.395(c)(1)]

- b) For catalytic incinerators, every three-hour period shall be reported during which the average temperature immediately before the catalyst bed, when the coating system is operational, is more than 28 °C less than the average temperature immediately before the catalyst bed during the most recent control device performance test at which destruction efficiency was determined as specified under §60.393. In addition, every three-hour period shall be reported each quarter during which the average temperature difference across the catalyst bed when the coating system is operational is less than 80 percent of the average temperature difference of the device during the most recent control device performance test at which destruction efficiency was determined as specified under §60.393. [40 CFR 60.395(c)(2)]
- c) For thermal and catalytic incinerators, if no such periods occur, the owner or operator shall submit a negative report. [40 CFR 60.395(c)(3)]
- 3) The owner or operator shall notify the administrator thirty days in advance of any test by Method 25. [40 CFR 60.395(d)]
- 4) All records shall be maintained onsite for a minimum of five years and shall be made available to Department of Natural Resources' personnel upon request.

Passenger Paint Line EU0050 through EU0090		
Emission Unit	Description	2007 EIQ Reference #
EU0050	Passenger Guidecoat Booth	EP-07
EU0060	Passenger Topcoat Booth 1 and Topcoat Booth 2, Passenger Spot Repair	EP-09, EP-10 & EP-24
EU0070	Passenger Wax	EP-13
EU0080	Passenger Blackout Booth	EP-31
EU0090	Passenger Final Repair Booth	EP-26

Commercial Paint Line EU0150 through EU0180		
Emission Unit	Description	2007 EIQ Reference #
EU0150	Commercial Guidecoat Booth	EP-18
EU0160	Commercial Topcoat Booth, Commercial Tutone Booth, Commercial Spot Repair	EP-20, EP-21 & EP-24
EU0170	Commercial Blackout Booth	EP-25
EU0180	Commercial Final Repair Booth	EP-26

PERMIT CONDITION [(EU0050 through EU0090) and (EU0150 through EU0180)]-001
 10 CSR 10-6.400
 Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitations:

- 1) The permittee shall not emit particulate matter from these emission units in excess of:
 - a) For process weight rates of 60,000 lb/hr or less:

$$E = 4.10(P)^{0.67}$$

Where:

E = rate of emission in lb/hr

P = process weight rate in tons/hr

- b) For process weight rates greater than 60,000 lb/hr:

$$E = 55.0(P)^{0.11} - 40$$

Where:

E = rate of emission in lb/hr

P = process weight rate in tons/hr

Note: The emission rates in this permit condition apply to the sources individually and not the aggregated sources.

- 2) The limitations established above shall not require the reduction of particulate matter concentration, based on the source gas volume, below the concentration specified in Table 1 of 10 CSR 10-6.400(3)(A)2.; provided that the permittee may elect to substitute a volume determined according to the provisions listed below:
- a) Any volume of gases passing through and leaving an air pollution abatement operation may be substituted for the source gas volume of the source operation served by the air pollution abatement operation, provided that air pollution abatement operation emits no more than forty percent of the weight of particulate matter entering; and provided further that the substitute volume shall be corrected to standard conditions and to a moisture content of no greater than that of any gas stream entering the air pollution abatement operation.
- 3) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

Monitoring:

- 1) If the installation chooses to demonstrate compliance by the process weight equation, the permittee shall monitor the process weight rate of the equipment
- 2) If the installation chooses to demonstrate compliance by the source gas volume options, the permittee shall demonstrate the source gas volume or other volume substituted, including all the factors which determine volume and the methods for determining the volume.
- 3) When emission controls are required to comply with particulate matter limitations:
- a) Booths equipped with control devices [water curtains, etc.] shall not be operated without controls in place and operating properly.
- b) The control devices shall be inspected for holes, imperfections, proper installation or other problems that could hinder the effectiveness of the control device.
- c) The control devices shall be inspected each shift before spraying begins in a booth.
- d) The manufacturer's recommendations shall be followed with regard to installation and maintenance of the control devices.

Record Keeping:

- 1) The permittee shall maintain a log indicating whether or not the installation is complying with the emission limitations from the process weight equations or the source gas volume.
- 2) If the permittee is demonstrating compliance by the process weight equation, the permittee shall maintain a written or electronic record of the process weight rates of the equipment and the respective emission limitation and emission rates. Attachment I contains a log including these record keeping requirements. This log, or an equivalent created by the permittee must be used to certify compliance with this requirement.

- 3) If the installation chooses to demonstrate compliance by the source gas volume option, the permittee shall maintain records on the source gas volume or other volume substituted, including all the factors which determine volume and the methods for determining the volume and the respective emission limitation and emission rates.
- 4) Attachment I-2 contains a log demonstrating compliance with the emission limits using the source gas volume option. This log, or an equivalent created by the permittee must be used to certify compliance with this requirement.
- 5) When emission controls are required to comply with particulate matter limitations, the permittee shall maintain records of the inspections of control devices including when they occur (See Attachment J).
- 6) All records shall be maintained onsite for a minimum of five years and shall be made available to Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

Boilers EU0200 through EU0240 and EU0280		
Emission Unit	Description	2007 EIQ Reference #
EU0200	Power House Boiler #1, 90 MMBtu/hr Natural Gas/#6 Fuel Oil, Installed 1952	EP-36
EU0210	Power House Boiler #2, 65 MMBtu/hr Natural Gas/ #6 Fuel Oil, Installed 1952	EP-33
EU0220	Power House Boiler #3, 65 MMBtu/hr Natural Gas/ #6 Fuel Oil, Installed 1952	EP-33
EU0230	E-Lab Boiler, 8.4, MMBtu/hr Natural Gas/ #6 Fuel Oil, Installed 1977	EP-34
EU0240	Fitness Room Boiler, 8.4, MMBtu/hr Natural Gas/ #6 Fuel Oil, Installed 1977	EP-34
EU0280	Seven (7) Space Heaters – 20 MMBtu/hr each	EP-34

<p>PERMIT CONDITION (EU0200 through EU0240)-001 10 CSR 2.040 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating</p>
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Emission Limitation:

The permittee shall not emit particulate matter in excess of 0.233 pounds per million BTU of heat input from Emission Units EU0500 through EU0540.

Operational Limitation/Equipment Specifications:

This emission unit shall be limited to burning pipeline grade natural gas and #6 fuel oil.

Monitoring/Record Keeping:

- 1) The permittee shall maintain on the premises of the installation calculations demonstrating compliance with this rule (See Attachment K).
- 2) The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Kansas City Health Department, Air Quality Section, 2400 Troost, 3rd Floor, Kansas City, Missouri 64108 and Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

PERMIT CONDITION [(EU0200 through EU0140) and EU0280]-002
 10 CSR 6.260
 Restriction of Emission of Sulfur Compounds

Emission Limitation:

- 1) No person shall cause or permit emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per million BTUs actual heat input averaged on any consecutive three hour time period
- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010, Ambient Air Quality Standards.
- 3) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010, Ambient Air Quality Standards. [10 CSR 10-6.260(4) of August 30, 1996 version, 10 CSR 10-6.260(3)(B) of May 30, 2004 version & 10 CSR 10-6.010 Ambient Air Quality Standards]

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days

Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
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Operational Limitation/Equipment Specifications:

The emission unit shall be limited to fuel with a sulfur content of no more than 7.6% sulfur by weight.

Monitoring:

- 1) The following monitoring requirements apply when burning fuel oil:
 - a) The permittee shall maintain an accurate record of the sulfur content of fuel used. The installation shall maintain records of the amount of fuel burned and verify the sulfur content (see Attachment L). Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable.
 - b) If the requirements of condition 1 cannot be met, then compliance to the emission limitations shall be determined by source testing. The heating value of the fuel shall be determined as specified in 10 CSR 10-6.040(2). Source testing to determine compliance shall be performed as specified in 10 CSR 10-6.030(6). The actual heat input shall be determined by multiplying the heating value of the fuel by the amount of fuel burned during the source test period.
 - c) Other methods approved by the permitting agency in advance may be used to verify compliance.

Record Keeping:

- 1) If monitoring option 1 is used to verify compliance, then the permittee shall maintain records on the premises of the analysis of the fuel oil used which shows weight percentage of sulfur in the fuel. Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable.
- 2) Attachment L contains a logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
- 3) If monitoring option 2 is used to verify compliance, then the permittee shall maintain records on the premises of all source testing performed.
- 4) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
- 5) All records shall be maintained for five years.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after any exceedance of the emission limit or sulfur content limit established by 10 CSR 10-6.260, or any malfunction which causes an exceedance.

PERMIT CONDITION (EU0200 through EU0240)-003

10 CSR 6.220

Restriction of Emission of Visible Air Contaminants

Emission Limitation:

- 1) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any new or existing source any visible emissions with an opacity greater than twenty percent.
- 2) *Existing source*-any equipment, machine, device, article, contrivance or installation installed or in construction in the Kansas City Metropolitan Area on September 25, 1968.
- 3) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six minutes in any sixty minutes air contaminants with an opacity up to sixty percent.

Monitoring:

- 1) The permittee shall conduct opacity readings on this emission unit using the procedures contained in U. S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two weeks for a period of eight weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
 - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Record Keeping:

- 1) The permittee shall maintain records of all observation results (see Attachment M1 or M2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions. (see Attachment N)
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment))
- 4) Attachments M1 or M2, N, and O contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
- 5) These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.
- 6) All records shall be maintained for five years.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- 2) Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted semi-annually, in the semi-annual monitoring report and annual compliance certification, as required by Section IV of this permit.

PERMIT CONDITION [(EU0200 through EU0240) and EU0280]-004
 10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
 40 CFR Part 63 Subpart DDDDD,
 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, And
 Institutional Boilers and Process Heaters

NOTE:

On July 20, 2007, the United States Court of Appeals, District of Columbia Circuit ordered a full vacatur of 40 CFR Part 63 Subpart DDDDD. The vacatur has the same effect as if this MACT rule was never promulgated. This means there is no longer a September 13, 2007 compliance date for sources affected by this HAP source category. If and when the EPA promulgates an approved version of this MACT, emission units EU0200 through EU0240 and EU0280 will be re-evaluated for applicability.

Solvent Degreasers EU0250		
Emission Unit	Solvent Degreasers	2007 EIQ Reference #
EU0250	Solvent Degreasers	EP-35

PERMIT CONDITION EU0250-001
 10 CSR 2.210
 Control of Emissions From Solvent Cleanup Operations

Applicability:

- 1) This rule shall apply to all installations which emit volatile organic compounds (VOC) from solvent metal cleaning or degreasing operations.
- 2) This rule applies to any of the following processes that use non-aqueous solvents to clean and remove soils from metal parts:
 - a) Spray gun cleaners;
 - b) Cold cleaners with a solvent reservoir or tank;
 - c) Open-top vapor or conveyORIZED degreasers; or
 - d) Air-tight or airless cleaning systems.
 - e) The following shall be exempt from this rule:

- f) Cold cleaners with liquid surface areas of one square foot or less or maximum capacities of one gallon or less;
 - g) Solvent cleaning operations that meet the emission control requirements of 10 CSR 10-2.205, 10 CSR 10-2.230, 10 CSR 10-2.290 and 10 CSR 10-2.340;
 - h) Solvent cleaning operations regulated under 40 CFR Part 63 Subpart T;
 - i) The cleaning of electronic components, medical devices or optical devices;
 - j) Hand cleaning/wiping operations; and
 - k) Flush cleaning operations.
- 3) The following shall be exempt from the solvent vapor pressure requirements (Emission Limitation 1, below):
- a) Sales of cold cleaning solvents in quantities of five gallons or less;
 - b) Cold cleaners using solvents regulated under any federal National Emission Standards for Hazardous Air Pollutants; and
 - c) Janitorial and institutional cleaning.

Emission Limitation:

- 1) No owner or operator shall operate a cold cleaner using a solvent with a vapor pressure greater than 1.0 mm Hg at twenty degrees Celsius.
- 2) Exception: The permittee may use an alternative method for reducing cold cleaning emissions if the level of emission control is equivalent to or greater than the requirements listed above. The director must approve the alternative method.

Operational Limitation/Equipment Specifications:

- 1) Each cold cleaner shall have a cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position, or an enclosed reservoir which limits the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
- 2) When one or more of the following conditions exist, the design of the cover shall be such that it can be easily operated with one hand such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighing or by power systems):
 - a) The solvent vapor pressure is greater than three-tenths (0.3) psi measure at 37.8 degrees Celsius (37.8°C) (100 degrees Fahrenheit (100°F)), such as in mineral spirits.
 - b) The solvent is agitated; or
 - c) The solvent is heated.
- 3) Each cold cleaner shall have a drainage facility which will be internal so that parts are enclosed under the cover while draining.
- 4) If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than six-tenths (0.6) psi measured at 37.8°C (100°F), then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
- 5) Solvent sprays, if used, shall be a solid fluid stream (not a fine, atomized or shower-type spray) and at a pressure which does not cause splashing above or beyond the freeboard.
- 6) A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment.
- 7) Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than six-tenths (0.6) psi measured at 37.8°C (100°F) or is heated above 48.9°C (120°F), must use one of the following control devices:
 - a) A freeboard ratio of at least 0.75;
 - b) Water cover (solvent must be insoluble in and heavier than water); or

- c) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to sixty-five percent. These control systems must receive approval from the director prior to their use.
- 8) 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 solvent must drain into an enclosed reservoir.
 - b) Clean parts shall be drained in the freeboard area for at least fifteen seconds or until dripping ceases, whichever is longer.
 - c) Whenever a cold cleaner fails to perform within the operating parameters established for it by this regulation, the unit shall be shut down immediately and shall remain shut down until trained service personnel are able to restore operation within the established operating procedures.
 - d) Solvent leaks shall be repaired immediately or the cleaner shall be shut down and leaks secured until the leaks are repaired.
 - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods in accordance with the Missouri Hazardous Waste Management Commission Rules codified as 10 CSR 25, as applicable:
 - i) Reduction of the waste material to less than twenty percent 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 disposal facility approved by the director.
 - iii) Waste solvent shall be stored in covered containers only.
- 9) Operators must be trained as follows:
 - a) Only persons trained in at least the operation and equipment requirements specified in this rule for their particular solvent metal cleaning process to operate this equipment;
 - b) The supervisor of any person who operates a solvent metal cleaning process shall receive equivalent or greater operational training than the operators; and
 - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once every twelve-month period.

Monitoring:

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

Record Keeping:

- 1) The permittee shall monitor the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.
- 2) The permittee shall maintain the following records for each purchase of cold cleaner solvent (Attachment Q):
 - a) Name and address of the solvent supplier.
 - b) Date of purchase.
 - c) Type of solvent purchased.
 - d) Vapor pressure of solvent in mm Hg at 20^oC or 68^oF.
- 3) The permittee shall keep monthly inventory records of solvent types and amounts purchased and solvent consumed. The records shall include all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises (see Attachment R). The record also shall include maintenance and repair logs that occurred on the cold cleaner (Attachments J).

- 4) The permittee shall keep training records of solvent metal cleaning for each employee on an annual basis (Attachment S).
- 5) All records shall be maintained for five years.

Reporting:

Reports of any deviations 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 shall be submitted semi-annually, in the semi-annual monitoring report and annual compliance certification, as required by Section IV of this permit.

Underground Storage Tanks – EU0260		
Emission Unit	Solvent Degreasers	2007 EIQ Reference #
EU0260	Three (3) 20,000 gallon Underground Gasoline Storage Tanks	EP-37

<p style="text-align: center;">PERMIT CONDITION EU0260-001 10 CSR 2.330 Control of Gasoline Reid Vapor Pressure</p>
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Emission Limitation:

- 1) This installation shall not sell, dispense, supply, offer for sale, offer for supply, transport or exchange in trade for use gasoline intended for final use in Clay, Platte and Jackson counties that exceeds the Reid Vapor Pressure (RVP) limit of seven and zero-tenths (7.0) psi during the time period from June 1 to September 15 of each year.
- 2) For gasoline blends having at least nine percent but not more than ten percent ethyl alcohol by volume of the blended mixture, the RVP shall not exceed eight and zero-tenths (8.0) psi during the time period from June 1 to September 15 of each year.
- 3) Gasoline that exceeds the RVP limits will not violate this rule if the gasoline is separately stored, sealed, clearly labeled and not used until it is in compliance with this rule. The label shall state that the gasoline is prohibited by Missouri law from being sold, dispensed, supplied, offered for sale, offered for supply, transported or exchanged in trade until the specific date that the gasoline shall be in compliance with this rule.

Monitoring:

- 1) When gasoline samples are taken, gasoline testing shall follow the procedures contained in "Tests for Determining Reid Vapor Pressure (RVP) of Gasoline and Gasoline-Oxygenate Blends," 40 CFR, part 80, Appendix E.
- 2) Gasoline sampling shall follow the procedures outlined in "Sampling Procedures for Fuel Volatility," 40 CFR Part 80, Appendix D.
- 3) To determine compliance when field analysis indicates the RVP is between seven and zero-tenths (7.0) psi and seven and three tenths (7.3) psi for conventional gasoline or between eight and zero-tenths (8.0) psi and eight and three-tenths (8.3) psi for nine to ten percent ethyl alcohol blends, the Missouri Department of Natural Resources will conduct additional testing. Additional testing shall include independent analysis by three separate laboratories of three independent samples taken sequentially, in accordance with sections (4) and (5) of this rule. If all of the measured RVP of the samples are above seven and zero-tenths (7.0) psi for conventional gasoline or above eight and zero-tenths (8.0) psi for nine to ten percent ethyl alcohol blends, the department may take enforcement action.

Recordkeeping:

- 1) This installation shall maintain records of any RVP testing and test results produced during the time period from June 1 to September 15 of each year. The installation shall make these records available for review or duplication immediately upon request from Department of Natural Resources' personnel and city personnel certified under Section 643.140, RSMo.

- 2) Each bill of lading, invoice, loading ticket, delivery ticket and other document that accompanies a shipment of gasoline (which includes gasoline blended with ethyl alcohol) shall contain a legible and conspicuous statement that the RVP of the gasoline does not exceed seven and zero-tenths (7.0) psi, in accordance with this rule for conventional gasoline, or that the RVP does not exceed eight and zero-tenths (8.0) psi for nine to ten percent ethyl alcohol blends.
- 3) Each bill of lading, invoice, loading ticket, delivery ticket and other document that accompanies a shipment of gasoline containing ethyl alcohol shall contain a legible and conspicuous statement that the percentage concentration of ethyl alcohol is between nine percent and ten percent (9% - 10%).
- 4) This installation shall keep records of each bill of lading, invoice, loading ticket, delivery ticket and other document that accompanies a shipment of gasoline during the period from June 1 to September 15 of each year. The installation shall make these records available for review or duplication immediately upon request from Department of Natural Resources' personnel and city personnel certified under Section 643.140, RSMo.
- 5) All records shall be retained on site for a minimum a five years and shall be made available upon request.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

Windshield Washer Fluid UST EU0290		
Emission Unit	Description	2007 EIQ Reference #
EU0290	20,000 gallon Windshield Washer Fluid Underground Storage Tank	EP-44

PERMIT CONDITION EU0290-001
 10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
 40 CFR Part 63 Subpart EEEE National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)

Record Keeping and Reporting Requirements:

- 1) For each storage tank subject to this subpart having a capacity greater than 5,000 gallon, that is not subject to control the permittee must submit the following information in either the Notification of Compliance Status, according to the schedule specified in Table 12 of this Subpart or in your first Compliance report, according to the schedule specified in §63.2386(b), whichever occurs first.
 [40 CFR 63.2343(b)(1)(i)]
- 2) Company Name and address;
- 3) Statement by a responsible official, including the official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete;
- 4) Date of report and beginning and ending dates of the reporting period; and

- 5) A listing of all transfer racks(except those racks at which only unloading of organic liquids occurs) and of tanks greater than or equal to 5,000 gallons that are part of the affected source but are not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.
 - a) If the first compliance report is submitted before the Notification of Compliance Status, the Notification of Compliance Status must contain the information specified in §63.2386(d)(3) and (4) if any of the following changes have occurred since the filing of the first Compliance report: [40 CFR 63.2343(b)(1)(ii)(A)]
- 6) Any storage tank or transfer rack became subject to control under this subpart; or any storage tank equal to or greater than 5,000 gallons became part of the affected source but is not subject to any of the emission limitations, operating limits, or work practice standards of this subpart; or
- 7) Any transfer rack (except those racks at which only unloading of organic liquids occurs) became part of the affected source; or
- 8) Any of the information required in §63.2386(c)(1) through (3) has changed.
 - a) If the Notification of Compliance Status is submitted before the first compliance report, the first Compliance report must contain the information specified in §63.2386(d)(3) and (4) if any of the changes mentioned above have occurred since filing the Notification of Compliance Status. [40 CFR 63.2343(b)(1)(ii)(B)]
 - b) The permittee must submit a subsequent compliance report according to the schedule in §63.2386(b) whenever any of the events mentioned above occur. [40 CFR 63.2343(b)(2)(i)]
 - c) The permittee must keep documentation, including a record of the annual average true vapor pressure of the organic HAP in the stored organic liquid that verifies the storage tank is not required to be controlled under this subpart. The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b) (1), including records stored in electronic form in a separate location. [40 CFR 63.2386(b)(3)]

IV. Core 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 10-6.045 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-week period within the period commencing the first day of March through April 30 and continuing for twenty-one consecutive calendar days;
 - (2) A three-week period within the period commencing the first day of October through November 30 and continuing for twenty-one 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 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 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) Ford Motor Co., Kansas City Assembly Plant 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 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 Ford Motor Co., Kansas City Assembly Plant fails to comply with the provisions or any condition of the open burning permit.
 - a) In a non-attainment 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 fifteen 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 10-6.110 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 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. 43.079 to satisfy the requirements of the Federal Clean Air Act, Title V.

- 3) 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.

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

- 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 non-compliance 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

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 fifteen minutes apart within the period of one hour.

This requirement is not federally enforceable.

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.

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, Missouri 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 thirty 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 re-submitted 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 non-compliance 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, re-issued 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 June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 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 non-compliance 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 non-compliance 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, Missouri 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 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, Missouri 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 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, Missouri 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 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 G. Minor, Plant Manager. On July 2, 2008, the Air Pollution Control Program was informed that Mr. Kenneth L. Ward, Plant 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 thirty 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) MDNR 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) MDNR 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 A

VOC Compliance Calculations and Worksheet

Ford Motor Company Kansas City Assembly Plant
Clay County, S27, T51, R32
Project Number: 2007-09-052
Installation ID Number: 047-0019
Permit Number: OP2008-044

The calculation methods for demonstrating compliance with Special Condition 2 (A) are described below. Table A provides an example worksheet that will be used to identify the sources of VOC emissions, the emissions calculations method used, and the monthly emissions (tons). In the event of a discrepancy between any emission calculation methodology listed in Table A and those in the Auto Protocol or Auto MACT requirements, the Auto Protocol and/or Auto MACT methodology, combined with any EPA or Air Pollution Control Program policies implementing the Auto Protocol and/or Auto MACT mandated requirements, shall take precedence.

Recordkeeping – Material Balance

On each day of operation, the permittee shall record and maintain records of the total quantity of all materials used containing VOC at the facility. The permittee may request an extension of the record completion date by submitting the request in writing to the staff director. The request must be received at least ten days prior to the 20th of the month and must state if an exceedance of the PAL limit is expected. If a request is not made, by the 20th of the month, the permittee shall calculate and record the following:

1. The total usage of VOC containing materials for the previous calendar month using the daily VOC usage records. The record shall also include the VOC content of each material as determined by (1) Material Safety Data Sheet, (2) laboratory test data or (3) product specification information, which ever is most representative for each material used; the record shall indicate the source of VOC content for each material used. Other alternative methods approved by the director may be used. The director reserves the right to require the permittee to determine the VOC contents of any material according to EPA reference methods. The amount of VOC used for each month shall be determined by multiplying the amount of VOC containing materials used by the VOC content of each material.
2. The VOC emissions for each emissions unit and the total facility for the previous month. VOC emissions shall be determined from the total VOC used for each emissions unit multiplied by one minus the capture efficiency for each emissions unit multiplied by the control efficiency of the control device used, as represented in the following equation:

$$VOC\ emissions = VOC\ used (1 - capture\ efficiency \times control\ efficiency)$$

Where:

-VOC emissions are expressed as pounds (or tons)

- VOC used is expressed as pounds (or tons)
- Capture efficiency is expressed as a fraction (i.e., percent capture divided by 100)
- Control efficiency is expressed as a fraction (i.e., percent capture divided by 100)

Total facility VOC emissions shall be calculated by summing the VOC emissions from each emissions unit.

3. The twelve month rolling sum VOC emission for the previous twelve month period. This will be accomplished by summing the monthly VOC emissions data for the previous twelve months. This number shall be used to demonstrate compliance with Special Condition 2(A).

VOC emissions shall be recorded and maintained in a written or electronic form at the facility for a period of five years.

Recordkeeping – Emission Factor or Emission Model Calculations

On each day of operation, the permittee shall record and maintain records of the total quantity of materials used or hours of operation for each VOC emissions unit. The permittee may request an extension of the record completion date by submitting the request in writing to the staff director. The request must be received at least ten days prior to the 20th of the month and must state if an exceedance of the PAL limit is expected. If a request is not made, by the 20th of the month, the permittee shall calculate and record the following:

1. The total usage of VOC containing materials or hours of operation for the previous calendar month using the daily production records. The record shall indicate the emission factor used to demonstrate compliance with Special Condition 2(A). Emission factors must be obtained from the most recent edition of AP-42, *Compilation of Air Pollutant Emission Factors*, the most recent stack test report, a mass balance approach (described above), and/or by a method approved by the Air Pollution Control Program. Documentation sufficient to support the emission factors must accompany Attachment A required by Special Condition 2(B).
2. The VOC emissions for each emissions unit and the total facility for the previous month. VOC emissions shall be determined by multiplying the quantity of materials used or hours of operation by an emissions factor, as represented in the following equation:

$$VOC\ emissions = Materials\ Used\ or\ Hours\ of\ Operation \times Emission\ Factor$$

Total facility VOC emissions shall be calculated by summing the VOC emissions from each emissions unit.

3. The twelve month rolling sum VOC emission for the previous twelve month period. This will be accomplished by summing the monthly VOC emissions data for the previous twelve months. This number shall be used to demonstrate compliance with Special Condition 2(A).

VOC emissions shall be recorded and maintained in a written or electronic form at the facility for a period of five years.

**Attachment A Continued:
 Example Worksheet for VOC Emissions Calculation**

This sheet covers the period
 from _____ to _____
 (month, year) (month, year)

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9
Point No.	Emission Point	Emissions Calculation Method	Amount of Material Processed	Unit for Material Processed	Emission Factor	Units for Emission Factor	Capture Efficiency	Control Device DRE
EP-1	Passenger Phosphate System	Mass Balance/Engineering						
EP-2	Passenger E-Coat Tank	Mass Balance						
EP-3	Passenger E-Coat Oven	Mass Balance/Emission Factor						
EP-4	Passenger Sealer Deck/Oven	Mass Balance/Emission Factor						
EP-5	Passenger PVC Booth	Mass Balance						
EP-6	Passenger PVC Oven	Mass Balance/Emission Factor						
EP-7	Passenger Guidecoat Booth	Mass Balance						
EP-8	Passenger Guidecoat Oven	Mass Balance/Emission Factor						
EP-9	Passenger Topcoat Booth 1	Mass Balance						
EP-10	Passenger Topcoat Booth 2	Mass Balance						
EP-11	Passenger Topcoat Oven 1	Mass Balance/Emission Factor						
EP-12	Passenger Topcoat Oven 2	Mass Balance/Emission Factor						

EP-13	Passenger Wax	Mass Balance						
EP-14	Commercial Phosphate System	Mass Balance/Engineering						
EP-15	Commercial E-Coat Tank	Mass Balance						
EP-16	Commercial E-Coat Oven	Mass Balance/Emission Factor						
EP-17	Commercial Sealer Deck/Oven	Mass Balance/Emission Factor						
EP-18	Commercial Guidecoat Booth	Mass Balance						
EP-19	Commercial Guidecoat Oven	Mass Balance/Emission Factor						
EP-20	Commercial Topcoat Booth	Mass Balance						
EP-21	Commercial Tutone Booth	Mass Balance						
EP-22	Commercial Topcoat Oven	Mass Balance/Emission Factor						
EP-23	Commercial Tutone Oven	Mass Balance/Emission Factor						
EP-24	Spot Repair	Mass Balance						
EP-25	Commercial Blackout Booth	Mass Balance						
EP-26	Final Repair Booths	Mass Balance						
EP-27	Final Repair Ovens	Mass Balance/Emission Factor						
EP-28	NA	NA						
EP-29	Paint Stripper	Mass Balance/Engineering						
EP-30	NA	NA						
EP-31	Passenger Blackout Booth	Mass Balance						
EP-32	NA	NA						
EP-33	Powerhouse Boilers #2 and #3	Emission Factor						
EP-34	Miscellaneous Boilers and Space Heat	Emission Factor						
EP-35	Solvent Degreasers	Mass Balance						

EP-36	Powerhouse Boiler #1	Emission Factor						
EP-37	Gasoline UST (3)	Emission Factor						
EP-38	Scrap Paint and Spent Solvent Tanks	Mass Balance						
EP-39	NA	NA						
EP-40	Scuff Booths (5)	Emission Factor						
EP-41	NA	NA						
EP-42	Miscellaneous Solvent Use	Mass Balance						
EP-43	Petroleum Tanks (3)	Emission Factor						
EP-44	20,000 Gallon Windshield Washer Fluid UST	Emission Factor						
EP-45	Waste Oil AST	Emission Factor						
EP-46	Paint Mix Rooms	Mass Balance						
EP-47	Passenger Ditch Molding	Mass Balance						
EP-48	Passenger Quarterglass Install	Mass Balance						
EP-49	Passenger Body Shop	Mass Balance/Emission Factor						
EP-50	Fluid Fill Operations	Mass Balance						
EP-51	Wastewater Treatment Plant	Emission Factor						
EP-52	Product Storage Tanks	Emission Factor						
EP-53	Fluidized Bed Skid Cleaner	Mass Balance/Engineering						
EP-54	Passenger Purge and Clean	Mass Balance						
EP-55	Passenger Windshield Glass Install	Mass Balance						
EP-56	Commercial Body Shop	Mass Balance/Emission Factor						
EP-57	Commercial Purge and Clean	Mass Balance						
EP-58	Commercial Windshield Glass Install	Mass Balance						

Attachment B

Pre-Approved Changes
 Ford Motor Company Kansas City Assembly Plant
 Clay County, S27, T51, R32
 Project Number: 2007-09-052
 Installation ID Number: 047-0019
 Permit Number: OP2008-044

PRE-APPROVED CHANGE			REGULATED SUBSTANCES	APPLICABLE STANDARDS		
				FEDERAL	STATE OF MISSOURI	
(1) Install	(a)	EU0010 Passenger Body Shop	(1) welding and/or grinding equipment	PM		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
			(2) sealer application equipment	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
	(b)	EU0020 Passenger Electrocoat (E-Coat)	(1)(E-Coat) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(2) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(c)	EU0030 Passenger Sealer	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) sealer oven using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII	10 CSR 10-2.230, 10 CSR 10-3.060 [Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(d)	Passenger PVC Enclosure	(1) lower body side PVC application equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) PVC oven using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

			(3) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(e)	EU0050 Passenger Guidecoat		(1) new applicators or automation equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) guidecoat booth	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) guidecoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	
			(5) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
				(3) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM
(f)	EU0060 Passenger Topcoat		(1) new applicators or automation equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) one or two topcoat booths	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) topcoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating] 10 CSR 10-6.260 [Restriction of Emission of Sulfur Compounds]
			(4) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	
			(5) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

	(g)	EU0070 Passenger Wax	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
	(h)	EU0080 Passenger Blackout	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
	(i)	EU0090 Passenger Final Repair	(1) new applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(j)	EU0100 Passenger Glass Install	applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(k)	EU0120 Commercial Body Shop	(1) welding and/or grinding equipment	PM
	(2) sealer application equipment	VOC, HAP			40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
	(l)	EU0130 Commercial Electrocoat (E-Coat)	(1) (E-Coat) oven burners	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(2) emission control equipment	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(m)	EU0140 Commercial Sealer	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]

					MM	
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) sealer oven	PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(n)	EU0150 Commercial Guidecoat	(1) new applicators or automation equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) guidecoat booth	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) guidecoat Oven Burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	
			(5) emission control equipment	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(o)	EU0160 Commercial Topcoat	(1) new applicators or automation equipment	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) one or both topcoat booths	VOC, HAP	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) topcoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub III, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

		(4) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	
		(5) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(p)	EU0170 Commercial Blackout	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(q)	EU0180 Commercial Final Repair	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(r)	EU0230 E-Lab Boiler	natural gas fired boiler with propane and/or fuel oil backup	PM10, SOx, NOx CO		10 CSR 10-6.260 [Restriction of Emission of Sulfur Compounds], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(s)	EU0240 Fitness Room Boiler	natural gas fired boiler with propane and/or fuel oil backup	PM10, SOx, NOx CO		10 CSR 10-6.260 [Restriction of Emission of Sulfur Compounds], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(t)	EU0250 Solvent Cold Cleaners	solvent cold cleaner	VOC, HAP		10 CSR 10-2.210 [Control of Emissions From Solvent Metal Cleaning]
(u)	EU0270 Scuff Booths (5)	scuff booths using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
(v)	Passenger Scrap Paint Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(w)	Passenger Spent Solvent Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(x)	Passenger Phosphate Boiler	boiler using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(y)	Passenger Fluid Fill	dispensing equipment	VOC, HAP		
(z)	Passenger Paint Mix Room				
		mix tanks and circulation	VOC, HAP	40 CFR 63 Sub IIII	

		equipment			
		mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
(aa)	Commercial Scrap Paint Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(bb)	Commercial Spent Solvent Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(cc)	Commercial Phosphate Boiler	boiler using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(dd)	Commercial Fluid Fill	dispensing equipment	VOC, HAP		
(ee)	Commercial Paint Mix Room	mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
		mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
(ff)	Petroleum Tanks (3)	tank and piping.	VOC, HAP		
(gg)	Waste Oil AST	tank and piping.	VOC, HAP		
(hh)	Wastewater Treatment Plant	WWTP equipment			
(ii)	Product Storage Tanks	tank and piping.	VOC, HAP		
(jj)	Space Heaters	space heaters using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(kk)	Boilers	boilers using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(ll)	Air Supply Houses	booth air supply houses using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(mm)	Hot Water Heaters	hot water heaters using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(nn)	Sprayable Bedliner	sprayable bedliner booth and application equipment	VOC, HAP, PM	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
(oo)	Glass Roof/Panel Installation	glass installation equipment for glass roof or other glass panel	VOC, HAP	40 CFR 63 Sub IIII	
(pp)	UV Cure Coating Application/Oven	UV Cure coatings, application equipment, and curing equipment	VOC, HAP, PM	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(qq)	Body Shop	new body shop for future vehicle using natural gas and/or	VOC, HAP, PM, PM10, SOx, NOx CO	40 CFR 63 Sub IIII	10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect

		propane			Heating]
(rr)	Stamping Operations	new stamping operations using natural gas and/or propane	VOC, HAP, PM, PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

(2) Modify	(a)	EU0010 Passenger Body Shop	(1) welding and/or grinding equipment	PM		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
			(2) sealer application equipment	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
	(b)	EU0020 Passenger Electrocoat (E-Coat)	(1) (E-Coat) oven (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(2) (E-Coat) dip tank	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) (E-Coat) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(c)	EU0030 Passenger Sealer	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) sealer oven using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII	10 CSR 10-2.230, 10 CSR 10-3.060 [Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
	(d)	EU0040 Passenger PVC Enclosure	(1) lower body side PVC application equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]

			(2) PVC oven using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(3) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(e)	EU0050 Passenger Guidecoat		(1) existing applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(3) guidecoat booth back sections	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(4) guidecoat booth	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(5) guidecoat oven (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(6) guidecoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
			(7) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	
			(8) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(f)	EU0060 Passenger Topcoat		(1) existing applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
			(2) applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230

				MM	[Control of Emissions From Industrial Surface Coating Operations]
		(3) topcoat booth back sections	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(4) one or both topcoat booths	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(5) topcoat ovens (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(6) topcoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(7) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	
		(8) spot repair operation.	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(9) guidecoat system	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(10) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(g)	EU0070 Passenger Wax	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(h)	EU0080 Passenger Blackout	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]

		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(i)	EU0090 Passenger Final Repair	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(j)	EU0100 Passenger Glass Install	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(k)	EU0120 Commercial Body Shop	(1) welding and/or grinding equipment	PM		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
		(2) existing welding or grinding equipment	PM		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
		(3) sealer application equipment	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(4) existing sealer application equipment	VOC, HAP	40 CFR 63 Sub IIII	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(l)	EU0130 Commercial Electrocoat (E-Coat)	(1) (E-Coat) oven (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(2) (E-Coat) dip Tank	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]

		(3) (E-Coat) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(m)	EU0140 Commercial Sealer	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) sealer oven using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(4) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(n)	EU0150 Commercial Guidecoat	(1) existing applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) guidecoat booth back sections	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(4) guidecoat booth	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(5) guidecoat oven (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

		(6) guidecoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(7) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	
		(8) topcoat system	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(9) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(o)	EU0160 Commercial Topcoat	(1) existing applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicators or automation equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) topcoat booth back sections	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(4) one or both topcoat booths	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(5) topcoat ovens (e.g., extend oven) using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(6) topcoat oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
		(7) purge solvent recovery equipment	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	
		(8) spot repair operation.	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]

		(9) emission control equipment using natural gas and/or propane	VOC, HAP, PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(p)	EU0170 Commercial Blackout	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
(q)	EU0180 Commercial Final Repair	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
		(3) oven burners using natural gas and/or propane	PM10, SOx, NOx CO	40 CFR 63 Sub IIII, 40 CFR 60 Sub MM	10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(r)	EU0190 Commercial Glass Install	(1) applicators	VOC, HAP	40 CFR 63 Sub IIII	
		(2) applicator automation	VOC, HAP	40 CFR 63 Sub IIII	
(s)	EU0230 E-Lab Boiler	natural gas fired boiler with propane and/or fuel oil backup	PM10, SOx, NOx CO		10 CSR 10-6.260 [Restriction of Emission of Sulfur Compounds], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(t)	EU0240 Fitness Room Boiler	natural gas fired boiler with propane and/or fuel oil backup	PM10, SOx, NOx CO		10 CSR 10-6.260 [Restriction of Emission of Sulfur Compounds], 10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(u)	EU0250 Solvent Cold Cleaners	solvent cold cleaner	VOC, HAP		10 CSR 10-2.210 [Control of Emissions From Solvent Metal Cleaning]
(v)	EU0260 Gasoline UST (3)	tank and piping.	VOC, HAP		10 CSR 10-2.330 [Control of Gasoline Reid Vapor Pressure]
(w)	EU0270 Scuff Booths (5)	scuff booths using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes]
(x)	EU0290 20,000 Gallon Windshield Washer Fluid UST	tank and piping.	VOC, HAP	40 CFR Sub EEEE	
(y)	Passenger Scrap Paint Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	

(z)	Passenger Spent Solvent Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(aa)	Passenger Phosphate System	conversion to ZrO2 system			
(bb)	Passenger Phosphate Boiler	boiler using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(cc)	Passenger Fluid Fill	dispensing equipment	VOC, HAP		
(dd)	Passenger Paint Mix Room	mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
(ee)	Commercial Scrap Paint Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(ff)	Commercial Spent Solvent Tank	tank and piping.	VOC, HAP	40 CFR 63 Sub IIII	
(gg)	Commercial Phosphate System	conversion to ZrO2 system			
(hh)	Commercial Phosphate Boiler	boiler using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(ii)	Commercial Fluid Fill	dispensing equipment	VOC, HAP		
(jj)	Commercial Paint Mix Room	mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
		mix tanks and circulation equipment	VOC, HAP	40 CFR 63 Sub IIII	
(kk)	Petroleum Tanks (3)	tank and piping.	VOC, HAP		
(ll)	Waste Oil AST	tank and piping.	VOC, HAP		
(mm)	Wastewater Treatment Plant	WWTP equipment			
(nn)	Product Storage Tanks	tank and piping.	VOC, HAP		
(oo)	Space Heaters	space heaters using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(pp)	Boilers	boilers using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(qq)	Air Supply Houses	booth air supply houses using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]
(rr)	Hot Water Heaters	hot water heaters using natural gas and/or propane	PM10, SOx, NOx CO		10 CSR 10-2.040 [Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating]

(3) Changes Materials	(a)	Use of a new raw material or ingredient in a coating operation	VOC, HAP	40 CFR 63 Sub III	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
	(b)	Use of a new coating material	VOC, HAP	40 CFR 63 Sub III	10 CSR 10-6.400 [Restriction of Emission of Particulate Matter From Industrial Processes], 10 CSR 10-2.230 [Control of Emissions From Industrial Surface Coating Operations]
	(c)	Use of new vehicle fluid	VOC, HAP		
	(d)	Use of new cold cleaner solvents	VOC	40 CFR 63 Sub III	10 CSR 10-2.210 [Control of Emissions from Solvent Metal Cleaning]
	(e)	Use of new general solvents	VOC, HAP	40 CFR 63 Sub III	10 CSR 10-2.215 [Control of Emissions from Solvent Cleanup Operations]

Notes:

[1]	The terms install, construct, and modify, for purposes of this table, have operational rather than regulatory meaning. For example, in some cases one or more of the listed installation projects might meet the regulatory definition of a modification rather than construction, according to its applicable regulation.
[2]	Means each tank, reservoir, or container used for the storage of volatile organic liquids, not including frames, housing, auxiliary supports, or other components that are not directly involved in the containment of liquids or vapors.

**Attachment F
 NOx Compliance Calculations and Worksheet**

Ford Motor Company Kansas City Assembly Plant
 Clay County, S27, T51, R32
 Project Number: 2007-09-052
 Installation ID Number: 047-0019
 Permit Number: OP2008-044

This sheet covers the period from _____ to _____.
 (Month, Year) (Month, Year)

Copy as needed.

Column A	Column B	Column C	Column D	Column E
Emission Point(s)	Description	Amount Fuel Combusted	NOx Emission Factor	(a) NOx Emissions (tons)
EU0280	Seven 20 MMBTU/hr Space Heaters			
(b) Total NOx Emissions Calculated for this Month in Tons:				
(c) 12-Month NOx Emissions Total From Previous Month's Attachment F, in Tons:				
(d) Monthly NOx Emissions Total (b) from Previous year's Attachment F, In Tons:				
(e) Current 12-month Total of NOx Emissions in Tons : [(b) + (c) - (d)]				

- (a) [Column E] = [Column C] x [Column D] x 0.0005.
 - (b) Summation of [Column E] in Tons;
 - (c) 12-Month NOx emissions total (e) from last month's Attachment F, in Tons;
 - (d) Monthly NOx emissions total (b) from previous year's Attachment F, in Tons;
 - (e) Calculate the new 12-month NOx emissions total.
- A 12-Month NOx emissions total (e) of less than 31.6 tons indicates compliance.**

Attachment G
Emergency Equipment Worksheet

Ford Motor Company Kansas City Assembly Plant
Clay County, S27, T51, R32
Project Number: 2007-09-052
Installation ID Number: 047-0019
Permit Number: OP2008-044

This sheet covers the period from _____ to _____.
(Month, Year) (Month, Year)

Copy as needed.

Date (month/year)	Emergency Equipment Identification	Hours of Operation	12-Month Total *

*12-month total is determined by the addition of the current month to the total of the previous 11 months. A number of 500 hours of operation for the emergency generator is considered to be in compliance.

ATTACHMENT H

Table 1 to Subpart IIII of Part 63—Operating Limits for Capture Systems and Add-On Control Devices

If you are required to comply with operating limits by §63.3093, you must comply with the applicable operating limits in the following table

For the following device ...	You must meet the following operating limit ...	And you must demonstrate continuous compliance with the operating limit by
1. Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to §63.3167(a)	i. Collecting the combustion temperature data according to §63.3168(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average combustion temperature at or above temperature limit.
2. Catalytic oxidizer	a. The average temperature measured just before the catalyst bed in any 3-hour period must not fall below the limit established according to §63.3167(b); and either	i. Collecting the temperature data temperature according to §63.3168(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average temperature before the catalyst bed at or above the temperature limit.
	b. Ensure that the average temperature difference across the catalyst bed in any 3-hour period does not fall below the temperature difference limit established according to §63.3167(b)(2); or	i. Collecting the temperature data according to §63.3168(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average temperature difference at or above the temperature difference limit; or
	c. Develop and implement an inspection and maintenance plan according to §63.3167(b)(4)	i. Maintaining an up-to-date inspection maintenance plan, records of annual catalyst activity checks, records of monthly inspections of the oxidizer system, and records of the annual internal inspections of the catalyst bed. If a problem is discovered during a monthly or annual inspection required by §63.3167(b)(4), you must take corrective action as soon as practicable consistent with the manufacturer's recommendations.
3. Regenerative carbon adsorber	a. The total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each carbon bed regeneration cycle must not fall below the total regeneration desorbing gas mass flow limit established according to §63.3167(c)	i. Measuring the total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each regeneration cycle according to §63.3168(d); and ii. Maintaining the total regeneration desorbing gas mass flow at or above the mass flow limit.
	b. The temperature of the carbon bed after completing each regeneration and any cooling cycle must not exceed the carbon bed temperature limit established according to §63.3167(c)	i. Measuring the temperature of the carbon bed after completing each regeneration and any cooling cycle according to §63.3168(d); and ii. Operating the carbon beds such that each carbon bed is not returned to service until completing each regeneration and any cooling cycle until the recorded temperature of the carbon

		bed is at or below the temperature limit.
4. Condenser	a. The average condenser outlet (product side) gas temperature in any 3-hour period must not exceed the temperature limit established according to §63.3167(d)	i. Collecting the condenser outlet (product side) gas temperature according to §63.3168(e); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average gas temperature at the outlet at or below the temperature limit.
5. Concentrators, including zeolite wheels and rotary carbon adsorbers	a. The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to §63.3167(e)	i. Collecting the temperature data according to §63.3168(f); ii. Reducing the data to 3-hour block averages; and iii. maintaining the 3-hour average temperature at or above the temperature limit.
6. Emission capture system that is a PTE	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or c. The pressure drop across the enclosure must be at least 0.007 inch water, as established in Method 204 of appendix M to 40 CFR Part 51	i. Collecting the direction of air flow, and either the facial velocity of air through all natural draft openings according to §63.3168(g)(1) or the pressure drop across the enclosure according to §63.3168(g)(2); and ii. Maintaining the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times.
7. Emission capture system that is not a PTE	a. The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to §63.3167(f). This applies only to capture devices that are not part of a PTE that meets the criteria of §63.3165(a) and that are not capturing emissions from a downdraft spray booth or from a flashoff area or bake oven associated with a downdraft spray booth	i. Collecting the gas volumetric flow rate or duct static pressure for each capture device according to §63.3168(g); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limit.

ATTACHMENT I-2

Source Gas Volume, Emission Limitation and Emission Rate Log for Spray Booths

Record Keeping Requirement for PERMIT CONDITION [(EU0050 through EU0090) and (EU0150 through EU0180)]-001

Emission Unit	Description	Emission Point	Source Gas Volume (SCFM)	Emission Factor (lb/veh)	MHDR (veh/hr)	Uncontrolled Emission* (gr/scf)	Emission Limit** (gr/scf)
EU0050	Passenger Guidecoat	EP-07	290,659	0.5	60	0.012	0.033
EU0060	Passenger Topcoat Booth 1	EP-09	468,804	1.02	60	0.015	0.026
	Passenger Topcoat Booth 2	EP-10	302,113	1.02	60	0.024	0.03
	Passenger Spot Repair	EP-24	20,920	0.004	60	0.001	0.062
EU0080	Passenger Blackout Booth	EP-31	58250	0.178	60	0.021	0.05
EU0090	Passenger Final Repair	EP-26	29,010	0.1	60	0.024	0.062
EU0150	Commercial Guidecoat	EP-18	393,880	1.06	55	0.017	0.027
EU0160	Commercial Topcoat Booth	EP-20	686,788	1.48	55	0.014	0.023
	Commercial Tutone Booth	EP-21	560,804	1.2	55	0.014	0.025
	Commercial Spot Repair	EP-24	29,920	0.004	55	0.001	0.062
EU0170	Commercial Blackout Booth	EP-25	40,046	0.178	55	0.029	0.057
EU0180	Commercial Final Repair	EP-26	29,010	0.1	55	0.022	0.062

* Uncontrolled Emission Rate = [Emission Factor (lb/veh) x MHDR (veh/hr) x 7,000 (gr/lb)] / [Air Flow Rate (scf/min) x 60 (min/hr)]

** Emission Limit determined by interpolating data in Table 1 of 10 CSR 10-6.400(3)(A)2.

Note: If the permittee demonstrates compliance with this table rather than using Attachment I, all factors which determine the volume and the methods of determining and computing the volume shall be recorded and retained by the permittee.

ATTACHMENT K

This attachment may be used to demonstrate compliance with 10 CSR 10-2.040, *Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*

Emission Limit for EU0200 through EU0240 and EU0280 (existing, i.e. installed by 02/15/1979):

$$1.09 Q^{-0.259} = 1.09(389.4)^{-0.259} = 0.233 \text{ lb/mmBtu}$$

where Q is the total heat input of all indirect heating sources at the installation.

The following equipment was used to obtain the total heat input (Q) for the above equation:

Emission Unit	Equipment	Heat Input (mmBtu/hr)
EU0200	Power House Boiler #1	90
EU0210	Power House Boiler #2	65
EU0220	Power House Boiler #3	65
EU0230	E-Lab Boiler	8.4
EU0240	Fitness Room Boiler	8.4
n/a	Misc. Auxiliary Boilers (LX-100)	4.28
n/a	Misc. Auxiliary Boiler (LX-200)	8.3
EU0280	Seven (7) Space Heaters – 20 MMBtu/hr each	140
TOTAL		389.4

The following table demonstrates compliance with the emission limit:
 (Emission Rate (lb/mmBtu) = MHDR*Emission Factor/Heat Capacity (mmBtu/hr))

Emission Unit #	Heat Capacity	Maximum Hourly Design Rate ¹	PM Emission Factor	Emission Factor Reference	Potential Emission Rate	Emission Rate Limit
EU0200 (nat. gas)	90 (mmBtu/hr)	0.086 mmft ³ /hr	7.6 lb/mmft ³	AP-42 Table 1.4-2	0.007 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0210 and EU0220 (nat. gas)	65 (mmBtu/hr)	0.062 mmft ³ /hr	7.6 lb/mmft ³	AP-42 Table 1.4-2	0.007 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0230 and EU0240 (nat. gas)	8.4 (mmBtu/hr)	0.008 mmft ³ /hr	7.6 lb/mmft ³	AP-42 Table 1.4-2	0.007 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0200 (fuel oil)	90 (mmBtu/hr)	0.643 Mgal/hr	10.0 Lb/Mgal	AP-42 Table 1.3-1	.0714 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0210 and EU0520 (fuel oil)	65 (mmBtu/hr)	0.464 Mgal/hr	10.0 Lb/Mgal	AP-42 Table 1.3-1	.0714 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0230 and EU0240 (fuel oil)	8.4 (mmBtu/hr)	0.06 Mgal/hr	10.0 Lb/Mgal	AP-42 Table 1.3-1	.0714 (lb/mmBtu)	0.233 (lb/mmBtu)
EU0280 Seven (7) Space Heaters	20.0 (mmBtu/hr)	0.133 mmft ³ /hr	7.6 lb/mmft ³	AP-42 Table 1.4-2	0.007 (lb/mmBtu)	0.233 (lb/mmBtu)

¹ Heat capacity divided by heating value of fuel; 1050 mmBtu/mmft³ for natural gas, 140 mmBtu/1000gal for fuel oil (AP-42, Appendix A)

ATTACHMENT M2
Method 22 (Outdoor) Observation Log

This record keeping sheet or an equivalent form may be used for the record keeping requirements of 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*.

Method 22 (Outdoor) Observation Log		
Emission Unit		
Observer	Date	
Sky Conditions		
Precipitation		
Wind Direction	Wind Speed	
Sketch process unit: Indicate the position relative to the source and sun; mark the potential emission points and/or the observing emission points.		
Observation Clock Time	Observation Period Duration (minute: second)	Accumulative Emission Time (minute: second)
Begin Observation		
End Observation		

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 May 13, 1997;
- 2) 2005 Emissions Inventory Questionnaire, received April 3, 2006;
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition; and
- 4) Construction Permit 042008-001, Issued March 31, 2008.

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.

None.

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.

10 CSR 10-2.215, Control of Emissions from Solvent Cleanup Operations

EP-42 includes miscellaneous solvent-containing material usage related to maintenance activities including non-manufacturing area cleaning, facility painting, and other activities. As stated in 10 CSR 2.215(1)(C), these activities are not subject to this regulation, therefore EP-42 was included in the list of Emission Units Without Limitations.

Construction Permit Revisions

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

Construction Permit 042008-001, issued March 31, 2008 – This is a Plant-Wide Applicability Limitation (PAL) Construction Permit, and the special conditions of this permit supersede all previous construction permits. This permit must be renewed every ten years.

Special Condition 10.D of this permit requires performance testing to verify the operating parameters and/or control device efficiencies of the control devices of the Passenger Paint Shop and the Commercial Paint Shop. The testing for the Passenger Paint Shop has been completed, therefore the testing requirement for this unit was not included in this operating permit.

Special Condition 9.C.2. of the PAL permit required the permittee to develop monitoring parameters in consultation with the Air Pollution Control Program's Enforcement Section. This has been completed and details of the monitoring required for the Carbon Adsorber and Fluidized Bed Concentrator are included in this operating permit.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subpart D, *Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971*

40 CFR Part 60, Subpart Db, *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*

40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*

These regulations do not apply to the 90 MMBtu/hr (Powerhouse Boiler 1) or the two 129 MMBTU/hr (Powerhouse Boiler 2 & 3) since the boilers were constructed in 1952 and have not been modified or re-constructed. The E-Lab and Fitness Room boilers each at 8.4 MMBtu/hr are less than the applicability threshold of 10 MMBtu/hr and are not subject to this regulation.

40 CFR Part 60, Subpart K, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978;*

40 CFR Part 60, Subpart Ka, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984; and*

40 CFR Part 60, Subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.*

1. EU0220 (three 20,000 gallon gasoline USTs) constructed in 1989 are not subject to NSPS Kb as they serve as part of the gasoline service stations which are exempted from this subpart under 40 CFR 60.110(B)(D)(6). Gasoline Service Stations are defined as "any site where gasoline is dispensed to motor vehicle fuel tanks from stationary storage tanks" in 40 CFR 60.111b. These storage tanks are used to fill new vehicle fuel tanks and are therefore not subject to this regulation.
2. The 170,000 gallon outdoor fuel oil storage tank are not subject to NSPS K, Ka, or Kb because it was constructed prior to June 11, 1973.
3. The two 20,000 gallon outdoor fuel oil tanks that were installed in 1978 are not subject to Subpart K or Ka because they are less than 40,000 gallons capacity and the #6 fuel oil has a true and Reid vapor pressure less than one and zero-tenths (1.0) psi.

40 CFR Part 60, Subpart MM, *Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations*

The installation is subject to NSPS, Subpart MM. VOC emission standards apply to electrocoat, guidecoat and topcoat operations. Emission Unit EU0050 Passenger Guidecoat which includes the Passenger Guidecoat Booth, Oven and Purge and Clean was installed prior to the applicability date of this Subpart and therefore is not subject to the standard.

Maximum Available Control Technology (MACT) Applicability

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

The provisions of this subpart apply 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-trichloroethane, carbon tetrachloride or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than five percent by weight, as a cleaning and/or drying agent. Wipe cleaning activities, such as using a rag containing halogenated solvent are not covered under the provisions of this subpart.

The permittee uses covered parts washers ranging from twenty gallons to fifty-five gallons. These units do not use halogenated solvents as defined in 40 CFR 63.460, therefore the parts washers are not subject to the MACT standards for halogenated solvent cleaning.

40 CFR Part 63, Subpart IIII, National Emission Standards for Hazardous Air Pollutants: Surface Coating for Automobiles and Light-Duty Trucks

This regulation applies to this facility by definition.

40 CFR Part 63, Subpart EEEE, National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)

This regulation applies to the 20,000 gallon methanol UST (windshield washer fluid). However, no unit specific conditions apply. Since the stored liquid is not crude oil and the average true vapor pressure is not between 4.0 and 11.1 psia, there are no emission limits or required controls applicable to this unit.

40 CFR Part 63 Subpart DDDDD, National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, And Institutional Boilers And Process Heaters

Power House Boilers 1, 2 and 3, E-Lab Boiler and Fitness Room Boiler (Emission Units EU0500 and EU0540) were subject to this regulation. However, as noted in Permit Condition (EU0500 through EU0540)-004, the United States Court of Appeals, District of Columbia Circuit, ordered a full vacatur of 40 CFR Part 63 Subpart DDDDD. The vacatur has the same effect as if this MACT rule was never promulgated. This means there is no longer a September 13, 2007 compliance date for sources affected by this HAP source category. If and when the EPA promulgates an approved version of this MACT, these five emission units will be reevaluated for applicability.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements, apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

Compliance Assurance Monitoring (CAM) Applicability

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

The Passenger Topcoat, Commercial Guidecoat, Commercial Topcoat operations are subject to CAM and will be included at the time of permit renewal.

Other Regulatory Determinations

10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds

The five boilers only use natural gas, propane (LPG) or #6 fuel oil. Natural gas and LPG units are exempt from this regulation, therefore sulfur content only needs to be monitored for the #6 fuel oil. The maximum allowable sulfur content in the #6 fuel oil was determined by the following calculation:

$$157 \cdot S \frac{\text{lbs}}{10^3 \text{ gallon}} \cdot \frac{10^3 \text{ gallon}}{150 \text{ MMBtu}} = 8 \frac{\text{lbsSO}_2}{\text{MMBtu}}$$

Where, S = percentage of sulfur in the fuel, and the emission factor was found in AP-42, Table 1.3-1. Solving for S = 7.64% , therefore the fuel must have less than this sulfur content to be in compliance.

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:



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