



PART 70 PERMIT TO OPERATE

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

Operating Permit Number: OP2011-044
Expiration Date: SEP 22 2016
Installation ID: 510-1077
Project Number: 2010-08-045

Installation Name and Address

Mid-West Industrial Chemical Co.
1509 Sublette Ave.
St. Louis, MO 63110
St. Louis City

Parent Company's Name and Address

Mid-West Industrial Chemical Co.
1509 Sublette Ave.
St. Louis, MO 63110

Installation Description:

Mid-West Industrial Chemical Co. is an industrial adhesive manufacturer located in St. Louis City. The installation blends dry resins, produces resin solutions in solvents, manufactures latex emulsions, and grinds rubber. The installation is a synthetic minor source of Hazardous Air Pollutants, Hexane (110-54-3), and Toluene (108-88-3).

SEP 23 2011

Effective Date

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Mid-West Industrial Chemical Co. is an industrial adhesive manufacturer located in St. Louis City. The installation blends dry resins, produces resin solutions in solvents, manufactures latex emulsions, and grinds rubber. The installation is a synthetic minor source of Hazardous Air Pollutants, Hexane (110-54-3), and Toluene (108-88-3).

Reported Air Pollutant Emissions, tons per year					
Pollutants	2010	2009	2008	2007	2006
Particulate Matter \leq Ten Microns (PM ₁₀)	0.52	0.51	0.61	0.69	0.91
Particulate Matter \leq 2.5 Microns (PM _{2.5})	-	-	-	0.01	-
Nitrogen Oxides (NO _x)	-	-	-	0.11	0.11
Volatile Organic Compounds (VOC)	5.35	5.25	6.24	7.11	9.28
Carbon Monoxide (CO)	-	-	-	0.02	0.02
Hazardous Air Pollutants (HAPs)	3.01	2.44	3.47	-	5.40
N-Hexane (110-54-3)	1.54	1.13	1.84	-	2.68
Toluene (108-88-3)	1.45	1.26	1.56	-	2.49
Xylene (1330-20-7)	0.02	0.04	0.08	-	0.23

EMISSION UNITS WITH LIMITATIONS

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

Emission Unit	Description
EP-10	Rubber Grinder
EP-11	2.219 MMBtu/hr Hot Water Boiler For Building Space Heaters

EMISSION UNITS WITHOUT LIMITATIONS

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

Emission Unit	Description
EP-01	10,500 Gallon Vertical Fixed Roof Hexane Storage Tank
EP-02	10,500 Gallon Vertical Fixed Roof Acetone Storage Tank
EP-03	10,500 Gallon Vertical Fixed Roof Heptane Storage Tank
EP-04	10,500 Gallon Vertical Fixed Roof Toluene Storage Tank
EP-05	4,300 Gallon Vertical Fixed Roof Methyl Ethyl Ketone Storage Tank
EP-06	4,300 Gallon Vertical Fixed Roof VMTP Naphtha Storage Tank
EP-07	4,300 Gallon Vertical Fixed Roof Ethyl Acetate Storage Tank
EP-08	4,300 Gallon Vertical Fixed Roof Naphtha Storage Tank
EP-09	(11) Solvent Adhesive Mixers: (5) 550 gallon mixers, (1) 440 gallon mixer, (1) 220 gallon mixer, (2) 165 gallon mixers, and (2) 55 gallon mixers
	(3) 400 gallon and (1) 1,500 gallon Emulsion Storage Tanks
	8,000 gallon Latex Storage Tank
	(2) 2,400 gallon Synthetic Latex Storage Tanks
	Emulsion Mixers - (1) 450 gallon mixer and (1) 300 gallon mixer
	Water-based Mixers - (2) 500 gallon mixers

II. Plant Wide Emission Limitations

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

PERMIT CONDITION PW001

10 CSR 10-5.390 Control of Emissions From Manufacture of Paints, Varnishes, Lacquers, Enamels and Other Allied Surface Coating Products

Operational Limitations:

1. Each tank shall be equipped with pressure/vacuum conservation vents set at ± 0.2 kPa (0.029 psi).
2. Each stationary VOC storage container with a capacity greater than 250 gallons shall be equipped with a submerged-fill pipe or bottom fill.
3. Covers shall be installed on all open-top tanks. These covers shall remain closed except when production, sampling, maintenance, or inspection procedures require operator access.
4. Covers shall be installed on all tanks containing VOC used for cleaning equipment. These covers shall remain closed except when operator access is required.
5. Grinding mills shall be operated and maintained in accordance with manufacturers' specifications.

Monitoring/Record Keeping:

1. The permittee shall retain records of daily production rates sufficient to determine daily VOC emissions.
2. The permittee shall retain the manufacturers' specifications for each grinding mill.
3. Records may be kept in either written or electronic form.
4. These records shall be made available immediately for inspection to City of St. Louis and/or Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five years.

Reporting:

The permittee shall report any deviations from the operational limitations, monitoring/record keeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

PERMIT CONDITION PW002

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitations:

1. The permittee shall emit less than ten (10) tons of each individual Hazardous Air Pollutant (HAP) from the installation in any consecutive 12-month period.
2. The permittee shall emit less than twenty-five (25) tons combined of Hazardous Air Pollutants (HAPs) from the installation in any consecutive 12-month period.

Monitoring/Record Keeping:

1. The permittee shall calculate the monthly and rolling 12-month HAP emissions for each individual HAP and for total combined HAP using Attachments C, D, E, and F or equivalent forms generated by the permittee.
2. The permittee shall maintain a complete set of Material Safety Data Sheets (MSDS) for all HAP containing materials at the installation.
3. All records shall be kept for no less than five years and be made available immediately for inspection to City of St. Louis and/or Department of Natural Resources' personnel upon request.

Reporting:

1. The permittee shall report to the City of St. Louis Air Pollution Control Program, 1520 Market St. Room 4058, St. Louis, MO 63103, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which records indicate an exceedance of either of the HAP emission limitation.
2. The permittee shall report any deviations from the emission limitations, monitoring/record keeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

III. Emission Unit Specific Emission Limitations

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

PERMIT CONDITION 001			
EP-11 Hot Water Boiler			
10 CSR 10-5.030 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating			
Emission Unit	Description	Fuel	Heat Input (MMBtu/hr)
EP-11	Hot Water Boiler For Building Space Heaters	Natural Gas	2.219

Emission Limitation:

The permittee shall not emit particulate matter in excess of 0.40 pounds per million BTU of heat input.

Operational Limitation:

The permittee shall calibrate, maintain and operate the emission unit according to the manufacturer's specifications and recommendations.

Monitoring/Record Keeping:

1. Maintain a maintenance log noting all inspections, malfunctions, and repairs using Attachment A or an equivalent form generated by the permittee.
2. Records may be kept in either written or electronic form.
3. These records shall be made available immediately for inspection to City of St. Louis and/or Department of Natural Resources' personnel upon request.
4. All records shall be maintained for five years.
5. Attachment B contains calculations which demonstrate that the emission unit will never exceed the emission limitation while burning the specified fuel.

Reporting:

1. The permittee shall report to the City of St. Louis Air Pollution Control Program, 1520 Market St., Room 4058, St. Louis, MO 63103, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, operational limitation, monitoring/record keeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

PERMIT CONDITION 002	
EP-10 Rubber Grinder	
10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes	
Emission Unit	Description
EP-10	Rubber Grinder

Emission Limitations:

1. The permittee shall not emit particulate matter in excess of the limits given in the following table:

Emission Unit	Description	PM Emission Limit (lb/hr)
EP-10	Rubber Grinder	0.40

2. 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.

Operational Limitations:

1. The permittee shall control particulate emissions from EP-10 Rubber Grinder using a baghouse. The baghouse shall be equipped with a gauge or meter, which indicate the pressure drop across the bag. The gauge or meter shall be located such that City of St. Louis and/or Department of Natural Resources' employees may easily observe them. Replacement bags shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
2. The permittee shall maintain and operate the baghouse according to the manufacturer's specifications and recommendations.
3. The baghouse shall be operated such that the minimum pressure drop across the control device is greater than or equal to 0.5" of water column.
 - a) Exception: Due to a lack of cake on the bag, the permittee is not restricted to a minimum pressure drop across the control device for the first 24 hours after replacement of a bag.

Monitoring/Record Keeping:

1. The permittee shall monitor and record the operating pressure drop across the baghouse at least once each operating day while the emission unit is operating. The operating pressure drop range shall be specified based on normal operation and manufacturer's recommendations.
2. The permittee shall maintain an operating and maintenance log for each control device using Attachment A or an equivalent form generated by the permittee. The record shall be maintained in hard copy or electronic form. The log(s) shall include the following:
 - a) Incidents of malfunction, with impact on emissions, duration of the event, probable cause of the event, and corrective actions;
 - b) Maintenance activities, with inspection schedule, repair actions, and replacements, etc; and
 - c) Dates and times of all bag replacements.
3. The permittee shall retain the potential to emit calculations in Attachment G which demonstrate that the emission unit is in compliance with the emission limitation while the baghouse is being properly maintained and operated.
4. These records shall be made available immediately for inspection to City of St. Louis and/or Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five years.

Reporting:

1. The permittee shall report to the City of St. Louis Air Pollution Control Program, 1520 Market St. Room 4058, St. Louis, MO 63103 and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, operational limitation, monitoring/record keeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

PERMIT CONDITION 003	
EP-10 Rubber Grinder	
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants and St. Louis City Ordinance 68657 §15 Restrictions of Emission of Visible Air Contaminants	
Emission Unit	Description
EP-10	Rubber Grinder

Emission Limitation:

1. The permittee shall not cause or permit to be discharged into the atmosphere from this emission source any visible emissions with an opacity greater than 20%.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 40%.

Monitoring:

1. The permittee shall conduct opacity readings on this emission source using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission source is operating and when the weather conditions allow. If no visible emissions are observed using these procedures, then no further observations are required. If visible emissions are observed, then the source representative shall conduct a Method 9 observation.
2. The following monitoring schedule shall be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
 - b) Observations shall be conducted once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
 - c) Observations shall be conducted once per month. If a violation is noted, monitoring reverts to weekly.
 - d) If, at the issuance of this permit, the permittee has progressed in the monitoring schedule listed above, the permittee may continue to advance accordingly.
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.
4. If visible emissions are perceived or believed to exceed the applicable opacity standard, the permittee shall inspect the baghouse for leaks and wear.

Record Keeping:

1. The permittee shall maintain records of all Method 22 observation results using Attachment I, or an equivalent form generated by the permittee, noting whether any air emissions (except for water vapor) were visible from the emission sources.
2. The permittee shall maintain records of all Method 9 observation results using Attachment J, or an equivalent form generated by the permittee, noting whether the visible emissions (except for water vapor) exceeded the opacity limit.
3. The permittee shall maintain records of any equipment malfunctions using Attachment A or an equivalent form generated by the permittee.
4. Records may be kept in either written or electronic form.
5. These records shall be made available immediately for inspection to City of St. Louis and/or Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five (5) years.

Reporting:

1. The permittee shall report to the City of St. Louis Air Pollution Control Program, 1520 Market St., Room 4058, St. Louis, MO 63103, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, operational limitation, monitoring/record keeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

IV. Core Permit Requirements

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

10 CSR 10-6.045 Open Burning Requirements and St. Louis City Ordinance 68657 §16 Open Buring Restrictions

- A. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited.
- B. No person shall cause, suffer, allow or permit the open burning of refuse.
- C. No person shall conduct, cause or permit the conduct of a salvage operation by open burning.
- D. No person shall conduct, cause or permit the disposal of trade waste by open burning.
- E. No person shall cause or permit the open burning of leaves, trees or the byproducts therefrom, grass, or other vegetation.
- F. It shall be prima-facie evidence that the person who owns or controls property on which open burning occurs, has caused or permitted said open burning.

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

- A. 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:
 1. Name and location of installation;
 2. Name and telephone number of person responsible for the installation;
 3. Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 4. Identity of the equipment causing the excess emissions;
 5. Time and duration of the period of excess emissions;
 6. Cause of the excess emissions;
 7. Air pollutants involved;
 8. 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;
 9. Measures taken to mitigate the extent and duration of the excess emissions; and
 10. Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- B. 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.
- C. Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess

emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.

- D. 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.
- E. Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

St. Louis City Ordinance 68657 §24 Upset Conditions, Breakdowns or Scheduled Maintenance

- A. In the event that there are emissions to the ambient air exceeding any of the limits established by this Ordinance as a direct result of unavoidable upset conditions in the nature of the process, or unavoidable and unforeseeable breakdown of any air pollution equipment or related operating equipment, or as a direct result of shutdown of such equipment for necessary scheduled maintenance, The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may withhold enforcement action provided the following requirements are met:

Such excess emissions in the case of unavoidable upset in or breakdown of equipment shall have been reported to the Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, as soon as reasonably possible, but no later than the next business day after the occurrence. In addition, a full report of the incident, as outlined in Subsection B of this section, must be submitted to this The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, within ten (10) working days.

If the excess emissions result from the scheduled maintenance on any component of a production process or associated control equipment during which the process continued operating, a "Notice of Violation" will be issued, unless The Commissioner of Health and or his or her designee within the

City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, agreed prior to the maintenance that shutting down the process would be unreasonable. The intention to proceed with on-line maintenance and the possibility of excess emission must be reported to The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, agreed at least forty eight (48) hours in advance. It should be in writing and include the reason that this type of maintenance is necessary. Written approval must be given by The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, agreed before on-line maintenance may begin. If excess emissions occur, the responsible facility person must submit a full report as detailed in Subsection B of this section within ten (10) days.

- B. The person responsible for any excess emission shall submit a full report covering:
1. Name and location of facility;
 2. Name and telephone number of person responsible for the facility;
 3. The identity of the equipment causing the excess emissions;
 4. The time and duration of the period of excess emissions;
 5. The cause of the excess emissions;
 6. The type of air contaminant(s) involved;
 7. A best estimate of the magnitude of the excess emissions expressed in the units of any applicable emission control regulation and the operating data and calculations used in estimating the magnitude;
 8. The measures taken to mitigate the extent and duration of the excess emissions; and
 9. The measures taken to remedy the situation which caused the excess emissions and the measures taken or planned to prevent the recurrence of such situations.

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]

St. Louis City Ordinance 68657 §20 Source Registration Permits Required

A. Applicability

1. A construction project, which results in an actual emissions increase greater than two hundred (200) pounds per year of any regulated air pollutant, not subject to 10 CSR 10-6.060, as amended, is required to obtain a source registration permit. Once a source is determined to be applicable to this Subsection (20.A.1.), it shall remain subject to this section even if actual emissions drop below the applicability level.
2. All parts washers using a nonaqueous solvent to clean and remove soils from metal parts, and subject to 10 CSR 10-5.300 Control of Emissions from Solvent Metal Cleaning, are required to obtain a source registration permit.
3. Abrasive Blasting: All exterior abrasive blasting operations are required to obtain a source registration permit. All interior abrasive blasting operations that are not conducted inside a sealed blast cabinet with filtered exhaust are required to obtain a source registration permit. Blast cabinets and other surface preparation equipment are subject to the actual emissions applicability threshold in Subsection A.1. of this section.
4. A construction project, for which air pollution control measures are not required, may require a source registration permit.
5. No person shall operate any equipment or process that has been idle for five years or longer, and would be subject to Section 21. A. of this ordinance if installed new, without obtaining a new source registration permit.
6. Construction must commence on any project within two (2) years of the effective date of a source registration permit issued for the project. If construction on a permitted project does not commence within two (2) years, the permit expires and a new permit application must be submitted. Notwithstanding any exceptions or exclusions mentioned in this section, The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may determine that the requirements of this section apply to any activities that involve the following concerning the emission of any regulated air pollutant:
 - a. Any appreciable change in the quality or nature, or
 - b. Any increase in the allowable emissions, or
 - c. A negative effect on air quality, or
 - d. A negative neighborhood impact.

For public safety reasons, any source operation may be deemed by The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as

Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, to be governed by this section as an emissions unit, and may be required to obtain a source registration permit.

B. General Requirements

1. No construction project shall commence unless preventive measures are applied to limit the emission of regulated air pollutant(s) to levels which do not endanger the ambient air quality, and the health, safety, welfare or enjoyment of life for our citizens.
2. Permits shall contain conditions which limit the air pollution from any emissions unit. The conditions shall seek the lowest level consistent with actual operations.
3. In cases where conditions are placed into permits which set limits of any kind on the operation of an emissions unit, appropriate monitoring and record keeping requirements shall also be placed into the permit to allow verification of compliance.
4. Permit applications must be submitted at least thirty (30) days prior to the planned start of construction for any project subject to this section.

C. Exceptions to Subsection A of this section

The following emission sources are not required to obtain source registration permits:

1. Any combustion equipment using exclusively natural or liquefied petroleum gas or combination of these with a capacity of less than ten (10) million British thermal units (BTUs) per hour heat input, or any other combustion equipment with a capacity of less than one (1) million BTUs per hour heat input.
2. Equipment used for any mode of transportation.
3. Any equipment used in the preparation of food for direct sale to the public or for personal consumption.
4. Stacks or vents to prevent the escape of sewer gases through plumbing traps for systems handling domestic sewage only.
5. Wood burning stoves and fireplaces in all locations.
6. Surface coating operations that are a part of janitorial, building and facility maintenance operations; or non-commercial surface coating operations that occur at hobby shops and residential properties.
7. Surface coating operations using exclusively aerosol cans.
8. Laboratory equipment used exclusively for chemical and physical analysis or experimentation, except equipment used for controlling radioactive air contaminants.
9. Emergency generators installed at residential properties containing four (4) or fewer separate residential units with no commercial activity on site. The generator must serve only a single residential property including the residences and attached or separate garages, storage buildings and outdoor fixtures on the same property.

D. Excluded Activities

The requirements of this section do not apply to the following activities:

1. Routine maintenance, parts replacement or relocation of sources of emissions within the same facility; or
2. Changes in a process or process equipment which do not involve installing, constructing or reconstructing a source of emissions or associated air cleaning devices; or
3. Replacement of like-kind emissions units; or

4. A project that does not require a permit for a reason other than the emission of air pollutants that are regulated as Greenhouse Gases by the U.S. Environmental Protection Agency (EPA); or
5. Other similar activities.

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

- A. The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- B. The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

St. Louis City Ordinance 68657 §12 Asbestos

- A. The permittee shall follow the procedures and requirements of St. Louis City Ordinance 68657 §12 if the permittee conducts any of the following activities:
 1. Authorizes, designs, conducts, and/or works in asbestos abatement projects and asbestos removal projects;
 2. Monitors air-borne asbestos or dispose of asbestos waste as a result of asbestos abatement projects;
 3. Inspects buildings to determine the presence or absence of ACM;
 4. Demolition or renovation activity; and
- B. Business entities that qualify for exemption status are not subject to the notification requirements for asbestos abatement projects of a size less than 160 square feet, 260 linear feet, or 35 cubic feet. These business entities are exempt from post-notification requirements, but shall keep records of waste disposal for Department inspection.

10 CSR 10-6.100 Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the Department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

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

- A. The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- B. The permittee may be required by the Director to file additional reports.
- C. Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- D. The permittee shall submit a full paper EIQ to the Air Pollution Control Program by no later than April 1st after the end of each reporting year. The permittee may instead submit a full electronic EIQ via MoEIS by no later than May 1st after the end of each reporting year.
- E. Emission fees are due by no later than June 1st after the end of each reporting year. The fees shall be payable to the Missouri Department of Natural Resources.

- F. The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- G. The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

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

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

10 CSR 10-6.150 Circumvention

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

10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

- A. 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.
- B. 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.
- C. Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
1. Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 2. Paving or frequent cleaning of roads, driveways and parking lots;
 3. Application of dust-free surfaces;
 4. Application of water; and
 5. Planting and maintenance of vegetative ground cover.

Monitoring:

- A. The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.
- B. The permittee shall maintain the following monitoring schedule:
1. The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.

2. Should no violation of this regulation be observed during this period then-
 - a. The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
 - b. If a violation is noted, monitoring reverts to weekly.
 - c. Should no violation of this regulation be observed during this period then-
 - (1) The permittee may observe once per month.
 - (2) If a violation is noted, monitoring reverts to weekly.
3. If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

Record Keeping:

- A. The permittee shall document all readings on Attachment H, or its equivalent, noting the following:
 1. Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
 2. Whether the visible emissions were normal for the installation.
 3. Whether equipment malfunctions contributed to an exceedance.
 4. Any violations and any corrective actions undertaken to correct the violation.

St. Louis City Ordinance 68657 §18 Preventing Particulate Matter from Becoming Airborne at Any Premises or Any Industrial or Commercial Facility

- A. No person shall cause or permit any activity in exterior or interior locations, which allows or may allow reasonably preventable amounts of particulate matter to be emitted to the ambient air. Any direct or fugitive emission of visually detectable particulates to the ambient air from any interior or exterior operations at any industrial or commercial facility or any premises, may be considered unreasonable and a violation of this Ordinance if our investigation determines that the emission was preventable.
- B. No person shall cause or permit a building or its appurtenance, or a road, driveway, or an open area to be constructed, used, repaired or demolished, without applying all such reasonable measures as may be required to prevent particulate matter from becoming airborne.
Except for areas whereon motor vehicles are routinely driven, parked or stored, all such reasonable measures shall include, but not be limited to, the application of dust free surfaces; application of effective dust suppressant materials; application of water; planting and maintaining vegetative ground cover, or any other procedure designed for and effective in reducing the airborne particulate matter.
From roadways, driveways, and any area upon which motor vehicles are routinely driven, parked or stored, these measures shall be limited to either:
 1. Having the surface paved with concrete, bituminous, or other hard surface which can be swept, flushed, or otherwise cleaned as needed and free of loose material to prevent accumulated particulate matter from becoming airborne or,
 2. Having the unpaved surface treated with a solution containing at least forty (40%) percent emulsifiable asphalt and water, or an equally efficient dust suppressant and repeating such treatment as required to maintain reasonable dust control.Whenever particulate matter escapes from windows, doors, or other openings of a building in such a manner and amount as to violate any provisions of this Ordinance, The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions

contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may order that the building or buildings in which the processing, handling and storage are done, be tightly closed and ventilated in such a way, that all air and air contaminants leaving the building are treated by effective means for removal of these air contaminants before discharge to the ambient air. Particulate emissions, resulting from any activity, that have been deposited outside the building in which the activity occurred, shall be removed from the adjacent streets, sidewalks, alleys, parking lots, and other property.

- C. The following activities are exemptions to Subsection A of this section of this Ordinance.
1. A fire set by or under the supervision of a public officer to prevent or abate a fire hazard.
 2. A fire set for the purpose of instructing persons in fire fighting techniques, as long as the requirements of Article 3, of the BOCA National Fire Code for Open Burning are adhered to.
 3. Instructing persons in the proper method for determining the opacity of emissions.
 4. The operation of equipment for the control of insects.
 5. The preparation of food for residential, organizational, institutional, or commercial use.
 6. Recreational fires and fires in proper containers for occupational warmth using only untreated wood, charcoal, propane or natural gas as fuel.
 7. Public fireworks displays as permitted by the local authority.

St. Louis City Ordinance 68657 §13 Air Pollution Nuisance Prohibited

The emission or escape into the ambient (outside) air within the City from any source or sources whatsoever of smoke, ashes, dust, soot, cinders, dirt, grime, acids, fumes, gases, vapors, odors, or any other substances or elements in such amounts as are detrimental to, or endanger the health, comfort, safety, welfare, property, or the normal conduct of business shall constitute a public nuisance, and it is considered unlawful for any person to cause, permit, or maintain any such public nuisance. The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may give additional consideration to the presence of emissions that cause severe annoyance or discomfort, or are offensive and objectionable to a significant number of citizens as determined by the Commissioner of Health and or his or her designee within the City of St. Louis Department of Health.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- A. 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.
- B. 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.

- C. The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-5.040 Use of Fuel in Hand-Fired Equipment Prohibited

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

St. Louis Ordinance 68657 §14 Motor Vehicle Idling Prohibited

- A. No person shall cause or permit the engine of a motor vehicle to operate in idle for longer than five (5) minutes in any hour while parking, standing or stopped as defined by St. Louis City Revised Code Title 17, Vehicles and Traffic. When ambient temperatures are below thirty-two (32) degrees Fahrenheit, a motor vehicle may not operate in idle for longer than ten (10) minutes in any hour.
- B. Exceptions
1. Emergency vehicles.
 2. Vehicles transporting disabled or special needs persons.
 3. Vehicles that provide power for auxiliary purposes.
 4. When operators of a motor vehicle are forced to remain motionless because of traffic or adverse weather conditions affecting the safe operation of the vehicle.
 5. Vehicles that are being repaired or undergoing diagnostics tests.
 6. Vehicles engaged in the delivery of goods, wares, or merchandise.
- C. Enforcement
Section Fourteen, Subsection A of this ordinance and Ordinance 68137 shall be enforced by a police officer or any law enforcement officer who is authorized to enforce traffic laws as a non-moving violation.
- D. Penalty for violation
Any person who violates the provisions in Section Fourteen, Subsection A of this ordinance and Section Two, Subsection D of Ordinance 68137 shall be subject to a fine as established by Section Four of Ordinance 68137.

St. Louis Ordinance 68657 §19 Abrasive Blasting

- A. No person shall cause or permit the abrasive blasting of the interior of any building without first submitting an application for a permit to abrasive blast to the Commissioner. Such application shall include the building address and location within the building where such blasting will be done, the date and expected duration of such blasting, and what measures will be taken to ensure particulate matter does not escape from the interior of the building. The application must be submitted at least twenty-one (21) days prior to the planned start of the abrasive blasting activities. Please refer to Subsection D of this section for special application requirements for abrasive blasting of surfaces contaminated with lead.
- B. No person shall cause or permit the abrasive blasting of the exterior of any building, tank, structure, or part or appurtenance thereof, without first submitting an application for a permit to abrasive blast to the Commissioner of Health and or his or her designee within the City of St. Louis Department of Health. Such application shall include the proposed dates and times when such blasting will be done,

the location and description of the surface to be blasted, the reason that abrasive blasting rather than some alternative method of surface preparation is necessary, the method of blasting to be used, the steps that will be taken to limit the amount of particulate matter becoming airborne, and the steps that will be taken to remove resultant particulate matter from adjacent streets, alleys, and property, to prevent it from being re-entrained in the air. The application must be submitted at least twenty-one (21) days prior to the planned start of the abrasive blasting activities. Please refer to Subsection D of this section for special application requirements for abrasive blasting of surfaces contaminated with lead.

- C. Abrasive blasting may be approved in consideration of the following conditions:
1. Whenever practical, some other method of surface preparation or cleaning, such as steam cleaning, water blasting, or power wire brushing, will be used instead of abrasive blasting;
 2. If abrasive blasting is necessary and whenever possible, the wet blasting method, wherein water from a circular nozzle forms a cone of water spray around the abrasive blast stream, will be used;
 3. If wet blasting is not possible in a particular application, the area to be dry blasted shall be protected so far as is reasonably practical, to limit the amount of particulates becoming airborne and the distance the particulates travel;
 4. Any exterior abrasive blasting in the area of the City between the Mississippi River and Jefferson Avenue, Chouteau Avenue to Cole Street, shall be done at times other than 7:30 to 9:00 A.M., 11:30 A.M. to 1:30 P.M., and 4:00 to 6:00 P.M., Monday through Friday;
 5. At the end of each day's operation, all abrasive material and dust resulting from the operations shall be removed from the adjacent streets, sidewalks, alleys, parking lots and other property.

Abrasive blasting of surfaces coated with paints contaminated with lead will not be approved unless it is demonstrated that no other option is feasible and all available control techniques will be employed to prevent emission of lead dust to the ambient air. Any person or organization intending to abrasive blast surfaces contaminated with lead must submit an application for a permit to abrasive blast at least ninety (90) days prior to the intended start of blasting activities. The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, reserves the right to deny any application to abrasive blast any surface contaminated with lead.

**10 CSR 10-5.060 Refuse Not to be Burned in Fuel Burning Installations
(Contained in State Implementation Plan)**

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

10 CSR 10-6.165 Restriction of Emission of Odors

This requirement is not federally enforceable.

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

10 CSR 10-5.240 Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area

The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:

- A. Areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2000 tons per year or 500 pounds per hour.
- B. Areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from these sources allowed by regulations of general application are or would be greater than 1000 tons for any consecutive three months or 1000 pounds per hour.

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

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

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- A. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - 1. 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.
 - 2. The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - 3. The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - 4. No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- B. 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:
 - 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.

2. 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.
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 4. 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).
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 6. 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.
- C. 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.
- D. 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.
- E. 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

- I.** 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.
- II.** 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.
- III.** 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.

IV. General Permit Requirements

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

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

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

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

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

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

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

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

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

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

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

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

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.

- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

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

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

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

None.

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

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

64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:

- a) The identification of each term or condition of the permit that is the basis of the certification;
- b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
- c) Whether compliance was continuous or intermittent;
- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

St. Louis City Ordinance 68657 §21 Right of Inspection, Disclosure, and Submittal of Requested Information

In the performance of their duties, the Commissioner of Health and or his or her designee within the City of St. Louis Department of Health may enter any premises where they have reason to believe that air contaminants have been or are being emitted, or equipment operations, or processes exist or are being constructed, which they have reason to believe are or will be an air contaminant source, or which are required to be registered as sources of air pollution, or for any facility for which a permit is required.

No person shall refuse entry or access to The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, nor shall any person obstruct, hamper, or interfere with any such inspection.

Should the above right of entry be denied, then The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may present the evidence to the City Counselor and request that the Counselor prosecute said action in Municipal Court or present evidence to the Circuit Attorney for prosecution in Circuit Court Anytime entry is sought using a search warrant The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, may involve the aid of the Police Department to gain entry to make such inspection as authorized herein.

Any person responsible for the emission of air contaminants within the City of St. Louis shall when requested by The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, supply this office with any requested information in an easily understandable format or on the forms supplied, in any manner or format specifically requested by The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations.

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

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

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

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and

- d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

St. Louis City Ordinance 68657 §11 Source-Specific Emergency Procedures

Notwithstanding the provisions of this Ordinance, or any other provisions of law to the contrary, and without necessity of prior administrative procedures or hearings, or at any time during such proceedings, if The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, after investigation, is of the opinion that any person is discharging or causing to be discharged into the atmosphere any air contaminant, and if The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, determines that the discharge under the atmospheric conditions then prevailing, creates a hazardous emergency which requires immediate action to prevent serious damage to the public health, safety or welfare, and that it therefore appears to be prejudicial to the interests of the people of the City to delay action, The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, with the written approval of the Mayor, shall order the person responsible for the emission, in writing, to discontinue immediately the discharge of the contaminants into the atmosphere, whereupon the person shall immediately discontinue the discharge.

In the event that there is a failure to comply with The Commissioner of Health and or his or her designee within the City of St. Louis Department of Health operating as Delegated Agents of the State of Missouri, Department of Natural Resources, Division of Environmental Quality, Air Pollution Control Program, under authority contained within the Air Conservation Law and granted by the Missouri Air Conservation Commission and conditions contained within the State/Local Agreement, may enforce any provision of State Air Conservation Law so delegated, or specific rules contained within Chapters 5 and 6 of Division 10 of Title 10 of the Code of State Regulations, order, then all affected Departments of the City government shall take immediate action necessary to protect and preserve the health, safety and

welfare of the public. The City Counselor shall be empowered to immediately seek in the Circuit Court or U. S District Court equitable relief to immediately halt the further emission of the air contaminants.

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

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

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

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

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report.

This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.

- c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
- d) The permit shield shall not apply to these changes.

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

The application utilized in the preparation of this permit was signed by Mr. Robert E. McKendry, Jr., President. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

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

This permit may be reopened for cause if:

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

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

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

V. Attachments

Attachments follow.

Attachment B
 10 CSR 10-5.030 Compliance Demonstration

This attachment may be used to demonstrate that the listed emission unit is in compliance with 10 CSR 10-5.030, *Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*. Installation's Total Heat Input (Q) in MMBtu/hr:

Emission Unit	Description	MHDR (MMBtu/hr)
EP-11	Hot Water Boiler For Building Space Heaters	2.219
Total Q:		2.219

The maximum allowable particulate emission rate for new sources at an installation with a total heat input of less than 10 MMBtu/hr is 0.40 lbs/MMBtu.

Emission Unit	Description	Emission Factor (lbs/MMscf)	Converted Emission Factor (lbs/MMBtu)	Emission Limit (lbs/MMBtu)	Is the Emission Unit in compliance?
EP-11	Hot Water Boiler For Building Space Heaters	8.7	0.008	0.40	YES

The emission factor was taken from FIRE for process SCC 10500106. An average heating value of 1,050 Btu/scf for natural gas, taken from AP-42 Appendix A, was used to convert from lbs/MMscf to lbs/MMBtu. The calculations demonstrate that the emission unit has worst-case emissions far below the applicable emission limit while being properly maintained and operated; therefore, no further monitoring or record keeping is required while combusting natural gas. The emission unit is in compliance with the emission limit without the aid of a control device; therefore, 40 CFR Part 64 *Compliance Assurance Monitoring* is not applicable.

Attachment G
 10 CSR 10-6.400 Compliance Demonstration

This attachment may be used to demonstrate that the listed emission units are in compliance with 10 CSR 10-6.400 *Restriction of Emission of Particulate Matter from Industrial Processes*.

Allowable PM emission limitation for sources having a process weight rate (P) of 30 tons/hr or less:

$$E = 4.1(P)^{0.67}$$

Potential PM Emission Rate = P (tons/hr) x PM Emission Factor (lb/ton)

$$\text{Potential PM Concentration} = \frac{\text{Potential PM Emission Rate (lb/hr)} \times 7000 \text{ (gr/lb)}}{\text{Stack Flowrate (scf/min)} \times 60 \text{ (min/hr)}}$$

Uncontrolled Calculations

Emission Unit	MHDR (tons/hr)	PM Emission Factor (lb/ton)	Inherent Control Efficiency	Potential PM Emission Rate (lb/hr)	PM Emission Rate Limit (lb/hr)	Potential PM Conc. (gr/scf)	PM Conc. Limit (gr/scf)	Is the uncontrolled Emission Unit in compliance?
EP-10	0.031	17	0	0.53	0.40	0.01	0.3	No.

The emission factor comes from FIRE for Process SCC 30101402. The emission unit has a stack flowrate of 5,411 ft³/min at 96°F. The emission unit is not in compliance with the PM emission rate limit without the aid of a control device. Potential uncontrolled annual PM₁₀ emissions from EP-10 Rubber Grinder are 2.31 tons. As potential uncontrolled annual PM₁₀ emissions are below the PM₁₀ major source threshold of 100 tons per year, 40 CFR Part 64 *Compliance Assurance Monitoring* is not applicable.

Controlled Calculations

Emission Unit	Control Efficiency	Potential PM Emission Rate (lb/hr)	PM Emission Limit (lb/hr)	Potential PM Conc. (gr/scf)	PM Conc. Limit (gr/scf)	Is the uncontrolled Emission Unit in compliance?
EP-10	89.48	0.06	0.40	0.001	0.3	Yes.

The emission unit was given 100% capture and 89.48% control for a baghouse. The permittee is in compliance with this regulation while the baghouse is being properly maintained and operated.

Attachment J
 Method 9 Opacity Observations

Company						Observer		
Location						Observer Certification Date		
Date						Emission Unit		
Time						Control Device		
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End		Sum	Average			

Readings ranged from _____ to _____ % opacity.

Was the emission unit in compliance at the time of evaluation? _____
 YES NO Signature of Observer

STATEMENT OF BASIS

Permit Reference Documents

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

- 1) Part 70 Operating Permit Application, received August 25, 2010
- 2) 2010 Emissions Inventory Questionnaire
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition

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 10-5.300 *Control of Emissions From Solvent Metal Cleaning* is not applicable to the installation and has not been applied within this permit. This regulation applies to processes that use nonaqueous solvents to clean and remove soils from metal parts: spray gun cleaners; cold cleaners with a solvent reservoir or tank; open-top or conveyORIZED vapor degreasers; or air-tight or airless cleaning systems. [10 CSR 10-5.300(1)(C)] The installation does not contain any of the listed processes.

10 CSR 10-5.420 *Control of Equipment Leaks From Synthetic Organic Chemical and Polymer Manufacturing Plants* is not applicable to the installation and has not been applied within this permit. The installation does not meet the applicability requirements of 10 CSR 10-5.420(2)(B) as they do not produce as an intermediate or final product any of the chemicals listed within 40 CFR Part 60, Subpart VV. The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

10 CSR 10-5.455 *Control of Emission from Solvent Cleanup Operations* is not applicable to the installation and has not been applied within this permit. The installation does not meet the applicability requirements of 10 CSR 10-5.455(2)(B) as they do not perform cleaning operations using a VOC containing solvent.

10 CSR 10-5.500 *Control of Emissions From Volatile Organic Liquid Storage* is not applicable to the installation and has not been applied within this permit. The installation does not meet the applicability requirements of 10 CSR 10-5.500(1)(B) as it does not contain any tanks of 40,000 gallons or greater capacity. The installation's largest tanks are 10,500 gallons.

10 CSR 10-5.520 *Control of Volatile Organic Compound Emissions From Existing Major Sources* is not applicable to the installation and has not been applied within this permit. The installation is an existing major source of volatile organic compounds; however, the installation is exempted from this regulation by 10 CSR 10-5.520(1)(A) as they are subject to and complying with another Title 10, Division 10, Chapter 5 rule – 10 CSR 10-5.390.

10 CSR 10-5.540 *Control of Emissions From Batch Process Operations* is not applicable to the installation and has not been applied within this permit. The installation does not meet the applicability requirements of 10 CSR 10-5.540(1)(B) as it is not identified by SIC 2821, 2833, 2834, 2861, 2865, 2869, or 2879. The installation is identified under SIC 2891 Adhesives and Sealants:

“Establishments primarily engaged in manufacturing industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment.

- Adhesives
- Adhesives, plastics
- Caulking compounds
- Cement (cellulose nitrate base)
- Cement, linoleum
- Cement, mending
- Epoxy adhesives
- Glue, except dental: animal, vegetable, fish, casein, and synthetic resin
- Iron cement, household
- Joint compounds
- Laminating compounds
- Mucilage
- Paste, adhesive
- Porcelain cement, household
- Rubber cement
- Sealing compounds for pipe threads and joints
- Sealing compounds, synthetic rubber and plastics
- Wax, sealing”

10 CSR 10-5.570 *Control of Sulfur Emissions From Stationary Boilers* is not applicable to the installation and has not been applied within this permit. The installation does not meet the applicability requirements of 10 CSR 10-5.570(A) as the installation does not operate any boiler with a nameplate capacity greater than 50 MMBtu/hr.

10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* is not applicable to the installation and has not been applied within this permit. The only source of SO_x emissions at the installation is EP-11 Hot Water Boiler For Building Space Heater which is exempted from this regulation under 10 CSR 10-6.260(1)(A)2 as it is combustion equipment that exclusively uses pipeline grade natural gas.

Construction Permits

The installation does not have any construction permits issued to it and this time.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subparts D, Da, Db, and Dc – *Standards of Performance for Steam Generating Units* are not applicable to the installation and have not been applied within this permit. Subparts D and Da are only applicable to steam generating units with a heat input rate greater than 250 MMBtu/hr. [§60.40(a)

and §60.40a(a)] Subpart Db is only applicable to steam generating units with a heat input rate greater than 100 MMBtu/hr. [§60.40b(a)] Subpart Dc is only applicable to steam generating units with a heat input rate greater than 10 MMBtu/hr. [§60.40c(a)] EP-11 Hot Water Boilers is the installation's largest steam generating unit with a total heat input of 2.219 MMBtu/hr.

40 CFR Part 60, Subpart K, Ka, and Kb – *Standards of Performance for Storage Vessels* are not applicable to the installation and have not been applied within this permit. Subparts K and Ka are only applicable to storage vessels greater than 40,000 gallons in capacity. [§60.110(a) and §60.110a(a)] Subpart Kb is only applicable to storage vessels greater than 75 m³ in capacity. [§60.110b(a)] All of the chemical bulk storage tanks (EP-01 – EP-08) and mixing tanks (EP-09) at the installation have capacities less than 75 m³ (19,182 gallons).

40 CFR Part 60, Subparts VV and VVa – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* are not applicable to the installation and have not been applied within this permit. The installation does not produce as an intermediate or final product any of the chemicals listed within §60.489. [§60.480(a) and §60.480a(a)] The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

40 CFR Part 60, Subpart NNN – *Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations* is not applicable to the installation and has not been applied within this permit. The installation does not produce as product, co-product, by-product, or intermediate any of the chemicals listed within §60.667. [§60.660(a)] The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

40 CFR Part 60, Subpart RRR – *Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes* is not applicable to the installation and has not been applied within this permit. The installation does not produce as product, co-product, by-product, or intermediate any of the chemicals listed within §60.707. [§60.700(a)] The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63, Subparts F, G, and H – *National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Manufacturing Industry* are not applicable to the installation and have not been applied within this permit. The installation does not manufacture as a primary product any of the chemicals listed in Table 1 to Subpart F and is not a major source of Hazardous Air Pollutants (HAPs). [§63.100(b)] The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

40 CFR Part 63, Subpart I – *National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks* is not applicable to the installation and has not been applied within this permit. The installation is not a major source and does not possess any of the listed production processes. [§63.190(b)] The installation does handle acetone, 1,1,1-trichloroethane, toluene, MEK, ethanol, and xylene; however, none of these chemicals are produced on site, instead the chemicals are purchased elsewhere and transferred to the installation.

40 CFR Part 63, Subpart OOO – *National Emission Standards for Hazardous Air Pollutant Emissions: Manufacture of Amino/Phenolic Resins* is not applicable to the installation and has not been applied within this permit. The installation is not a major source of HAPs and does not produce amino/phenolic resins [§63.1400(a)] The installation is a synthetic minor source of HAPs which blends resins that are produced elsewhere and transferred to the installation.

40 CFR Part 63, Subpart FFFF – *National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing* is not applicable to the installation and has not been applied within this permit. The installation is not a major source of Hazardous Air Pollutants (HAPs) operating a chemical manufacturing process unit. [§63.2435(a)] The installation is a synthetic minor source of Hazardous Air Pollutants .

40 CFR Part 63, Subpart HHHHH – *National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing* is not applicable to the installation and has not been applied within this permit. This regulation is applicable to major HAP sources manufacturing coatings defined in §63.8105 which process, use, or produce HAP. [§63.7985(a)] The installation did submit an initial notification for this regulation and does blend materials to produce adhesives; however, prior to the compliance date the installation obtained a voluntary federally enforceable condition to limit HAPs below the major source thresholds in their previous operating permit. The installation has requested the same voluntary limit within this operating permit to remain a synthetic minor source of HAPs (see Permit Condition PW002).

40 CFR Part 63, Subpart VVVVVV – *National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources* is not applicable to the installation and has not been applied within this permit. This regulation is applicable to chemical manufacturing process units (CMPU) using or producing one of the HAPs listed in Table 1 to Subpart VVVVVV at an area source. [§63.11494(a)] The installation does not use any of the HAPs listed in the table.

40 CFR Part 63, Subpart BBBBBBB – *National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry* is not applicable to the installation and has not been applied within this permit. The installation is an area source of HAPs; however, the installation does not handle any of the target HAPs – metal compounds of chromium, lead, manganese, and/or nickel. [§63.11579(a) and §63.11588]

40 CFR Part 63, Subpart CCCCCC – *National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing* is not applicable to the installation and has not been applied within this permit. This regulation is applicable to paints and allied products manufacturing at area source which process, use, or generate materials containing benzene, methylene chloride, cadmium compounds, chromium compounds, lead compounds and/or nickel compounds. [§63.11599(a)]

The installation does produce adhesives; however, they do not process, use, or generate materials containing the listed HAPs.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

40 CFR Part 61, Subpart M – *National Emission Standards for Asbestos* is applicable to the installation and has been applied within this permit (see Section IV. Core Permit Requirements).

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.

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

Greenhouse Gas Emissions

On May 13, 2010, EPA issued the GHG Tailoring Rule which set the major source threshold for CO₂e to be 100,000 tons/year within 40 CFR Part 70. As of July 1, 2011 all Title V operating permits are required to include GHG emissions. Potential emissions of greenhouse gases (CO₂e) for this installation are calculated to be 1,106.32 tons, classifying the installation as a minor source of GHGs. Please note that the potential emissions of greenhouse gases from this installation are only for stationary sources as §70.2 defines emission unit as “any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under Section 112(b) of the Act.”

Other Regulatory Determinations

10 CSR 10-5.390 *Control of Emissions From Manufacture of Paints, Varnishes, Lacquers, Enamels and Other Allied Surface Coating Products* is applicable to the installation and has been applied within this permit (see Permit Condition PW001). This regulation applies to major VOC sources manufacturing paints, varnishes, lacquers, enamels and other allied surface coating products. [10 CSR 10-5.390(1)(B)]

10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants* is applicable to the installation and has been applied within this permit (see Permit Condition 003).

10 CSR 10-6.400 *Restriction of Emission of Particulate Matter from Industrial Processes* is applicable to the installation and has been applied within this permit (see Permit Condition 002). This regulation is not applicable to EP-11 as it is an indirect heating source. [10 CSR 10-6.400(1)(B)6] This regulation is not applicable to EP-09 as each of the 11 mixers has potential particulate emissions below 0.5 lbs/hr: [10 CSR 10-6.400(1)(B)12]

Mixer Size (gallons)	Potential PM Emission Rate (lbs/hr)
(5) 550	0.24 each
440	0.19
220	0.10
(2) 165	0.07 each
(2) 55	0.02 each

An updated Potential to Emit for the installation is provided in the following table:

Pollutant	Potential to Emit (tons/year) ¹
CO	0.18
CO _{2e}	1,106.32
NO _x	0.92
PM ₁₀	43.15 ²
PM ₂₅	0.08
SO _x	0.006
VOC	67.93
HAP	42.53 ³
Hexane (110-54-3)	23.49
Toluene (108-88-3)	19.89
Xylene (1330-20-7)	1.33
Methyl Isobutyl Ketone (108-10-1)	0.06
Methanol (67-56-1)	0.05

¹Potential emissions are based upon 8,760 hours of uncontrolled annual operation unless otherwise noted. This PTE is a scale-up of emissions from actual operations determined via a mass balance on products produced.

²PM₁₀ emissions include a baghouse on EP-10 with an 89.48% control efficiency (as required by Permit Condition 002) and an enclosure on EP-09 with a 3.75% control efficiency (this is considered an inherent control device).

³The installation is limited to 25 tons/year of combined HAPs and 10 tons/year of each individual HAP by Permit Condition PW002 and is; therefore, a synthetic minor source of HAPs. The primary individual HAPs at the installation are Hexane (110-54-3) and Toluene (108-88-3); however, the installation also uses small amounts of Xylene (1330-20-7), Methyl Isobutyl Ketone (108-10-1), and Methanol (67-56-1).

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:

Alana L. Rugen
Environmental Engineer

CERTIFIED MAIL: 70093410000190188346
RETURN RECEIPT REQUESTED

Mr. Robert E. McKendry, Jr.
Mid-West Industrial Chemical Co.
1509 Sublette Ave.
St. Louis, MO 63110

Re: Mid-West Industrial Chemical Co., 510-1077
Permit Number: **OP2011-044**

Dear Mr. McKendry:

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

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

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

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

MJS:ark

Enclosures

c: St. Louis Regional Office
PAMS File: 2010-08-045