

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: OP2011-026
Expiration Date: JUN 02 2016
Installation ID: 095-0039
Project Number: 2006-10-067

Installation Name and Address

Blue River Wastewater Treatment Plant
7300 Hawthorne Rd
Kansas City, MO 64120
Jackson County

Parent Company's Name and Address

City of Kansas City - Water Services Dept
4800 East 63rd St.
Kansas City, MO 64130

Installation Description:

Blue River Wastewater Treatment Plant is a 120 MM gallon per day capacity municipal wastewater treatment facility. Wastewater received at the plant is treated and discharged into the Missouri River. Solids removed from the wastewater may be dewatered and burned in incinerators; dewatered and then landfilled or sent to Birmingham Farm for land application. The installation has the potential to emit major levels of nitrogen oxides (NO_x).

JUN 03 2011

Effective Date

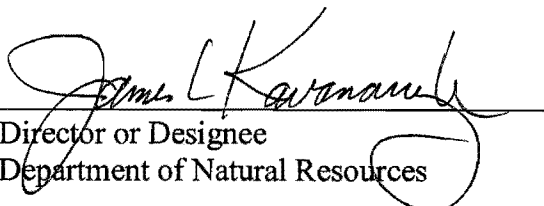

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Blue River Waste Water Treatment Plant is a 120 million (MM) gallon per day capacity municipal wastewater treatment facility. Wastewater received at the plant is treated and discharged into the Missouri River. Solids removed from the wastewater may be dewatered and burned in incinerators; dewatered and then landfilled or sent to Birmingham Farm for land application. The installation has three (3) multiple hearth incinerators, two (2) of which have been modified with fume afterburners and venturi and impingement scrubbers that are used to reduce emissions to the ambient air. Only the two (2) modified incinerators are permitted to operate. The third incinerator could be modified and brought into service should there be a necessity to do so. In reality, the facility operates only one incinerator and the others are inoperable. Other emission units include three (3) engine generators and two (2) boilers fueled with digester gas and pipeline natural gas; two (2) odor control flares to burn excess digester gas with pipeline natural gas pilots; and portable diesel powered pumps, generators and compressors. The installation has the potential to emit major levels of nitrogen oxides (NO_x). The actual emissions for the past five years for the installation are listed below:

Reported Air Pollutant Emissions, tons per year								
Year	Particulate Matter ≤ Ten Microns (PM-10)	Particulate Matter ≤ 2.5 Microns (PM-2.5)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2009	1.14	0.84	0.58	11.75	1.43	17.70	0.04	0.07
2008	2.22	1.36	0.55	16.43	3.28	28.33	0.11	0.07
2007	2.67	1.25	0.74	20.42	5.07	19.70	0.18	0.07
2006	1.96	1.07	0.56	14.43	3.51	27.09	0.12	0.43
2005	2.79	0.79	1.82	29.14	7.16	10.47	0.25	0.07
2004	0.96	0.34	26.19	10.40	2.28	4.11	0.08	0.03

EMISSION UNITS WITH LIMITATIONS

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

Emission Unit #	Description of Emission Unit
EU0010	Two (2) Multiple Hearth Sludge Incinerators
EU0020	Three (3) Engine Generators
EU0030	Trickling Filter Odor Control Incinerator
EU0040	Cold Cleaner
EU0050	5,000 gallon Gasoline Storage Tank
EU0060	Six (6) Diesel Engine Powered Pumps, Three (3) Portable Air Compressors and Four (4) Portable Emergency Electrical Generators

EMISSION UNITS WITHOUT LIMITATIONS

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

Description of Emission Source

East Sludge Digester Flare, 9 MMBtu/hr, digester gas fueled, pipeline natural gas for start-up.
West Sludge Digester Flare, 9 MMBtu/hr, digester gas fueled, pipeline natural gas for start-up.
Digester Boiler No.1, 7 MMBtu/hr, digester gas or pipeline natural gas fueled
Digester Boiler No.2, 7 MMBtu/hr, digester gas or pipeline natural gas fueled
Grid Covered Basin
Bar Screen Wells
Wet Wells/Storage Basin
Aerated Grit Basins
Primary Clarifier No.1
Primary Clarifier No.2
Primary Clarifier No.3
Primary Clarifier No.4
Scum Storage Basin
Division Basin
Primary Junction Box
Methane Storage Tank
Sludge Thickener No.1
Sludge Thickener No.2
Sludge Thickener No.3
Primary Sludge Holding Tank
Secondary Sludge Holding Tank
Sludge Holding Tank Flare, digester gas fueled, pipeline natural gas for the pilot start-up
Belt Filter Presses
Sludge Conveyors
Sludge Equalization Bin
Sludge Storage Basin
Cooling Towers (2)
Miscellaneous Sludge Handling
Trickling Filter Vent No.1
Trickling Filter Vent No.2
Trickling Filter Vent No.3
Trickling Filter Vent No.4
Trickling Filter Vent No.1 to Odor Incinerator
Trickling Filter Vent No.2 to Odor Incinerator
Trickling Filter Vent No.3 to Odor Incinerator
Trickling Filter Vent No.4 to Odor Incinerator
Secondary Clarifier No.1
Secondary Clarifier No.2
Secondary Clarifier No.3
Secondary Clarifier No.4
Sludge Digesters No.1 and No.2
Gravel Haul Road

Description of Emission Source

Welding Processes-Plantwide
Screening Well Vent
Screening Well Vent
1000 gallon diesel fuel storage tank

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

- 1) Kansas City, Missouri Construction Permit Number 591-C
- 2) Kansas City, Missouri Construction Permit Number 510-C
- 3) Kansas City, Missouri Construction Permit Number 791
- 4) Kansas City, Missouri Construction Permit Number I-181

II. Plant Wide Emission Limitations

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

PERMIT CONDITION PW001

10 CSR 10-6.170

Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin KCMO Section 8-5(e), Preventing fugitive particulate matter from becoming airborne

Emission Limitation:

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

Monitoring:

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.

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-
 - i) The permittee may observe once per month.
 - ii) 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:

The permittee shall document all readings on Attachment A, 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.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation.

PERMIT CONDITION PW002

10 CSR 10-6.220

Restriction of Emission of Visible Air Contaminants

KCMO Section 8-5(d), Visible air contaminants

Note : This rule is not applicable to internal combustion engines.

Emission Limitation:

No owner or other person shall cause or permit to be discharged into the atmosphere from any source any visible emissions in excess of the limits specified by this rule. This permit will contain the opacity limits identified (10, 20 or 40 percent) for the specific emission units.

Monitoring:

- 1) The permittee shall conduct opacity readings on each emission unit using the procedures contained in U.S. EPA Test Method 22. The permittee is only required to take readings when the emission unit is operating and when the weather conditions allow. If the permittee observes no visible or other significant emissions using these procedures, then no further observations are required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The permittee must maintain the following monitoring schedule:
 - a) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
 - b) Should the permittee observe no violations of this regulation during this period then-
 - i) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
 - ii) If a violation is noted, monitoring reverts to weekly.
 - iii) 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 source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Record Keeping:

The permittee shall maintain records of all observation results using Attachment B (or its equivalent), noting:

- 1) Whether any air emissions (except for water vapor) were visible from the emission units;
- 2) All emission units from which visible emissions occurred;
- 3) Whether the visible emissions were normal for the process;
- 4) The permittee shall maintain records of any equipment malfunctions, which may contribute to visible emissions; and,
- 5) The permittee shall maintain records of all U.S. EPA Method 9 opacity tests performed.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

<p>PERMIT CONDITION PW003 10 CSR 10-2.330 Control of Gasoline Reid Vapor Pressure</p>
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Emission Limitation:

No person shall sell, dispense, supply, offer for sale, offer for supply, transport, or exchange in trade for use gasoline intended for final use in the applicable areas that exceeds the Reid Vapor Pressure (RVP) limit as follows: Seven (7.0) pound per square inch (psi) or less from June 1 through September 15. Gasoline blends having at least nine percent (9%) but not more than ten percent (10%) ethyl alcohol by volume of the blended mixture shall have an RVP limit of one (1.0) pound per square inch (psi) higher than the above limit.

Monitoring:

None.

Record Keeping:

Blue River Wastewater Treatment Plant shall maintain records of each bill of lading, invoice, loading ticket, delivery ticket, and other documents accompanying a shipment of gasoline during the period from June 1 through September 15 for at least sixty (60) months after the date of delivery. These records shall be made available immediately for inspection to Kansas City, Missouri Department of Health personnel upon request. The Director may require additional record keeping on a case-by-case basis.

Reporting

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

III. Emission Unit Specific Emission Limitations

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

EU0010 – Sludge Incinerators			
Emission Unit	Description	Manufacturer/Model #	2008 EIQ Reference #
EU0010	Two (2) Sludge Incinerators, 76.4 MMBtu/hr, pipeline natural gas, 1965, with a venturi and impingement tray scrubbers and afterburners.	Nichols Engineering, Serial No.1 47079, No.2 47080	EP001

PERMIT CONDITION EU0010-001
10 CSR 10-6.060
Construction Permits Required KCMO Permit No. 591-C

Equipment Limitations:

- 1) Hydrocarbon sensors shall be installed and maintained on each sludge incinerator.
- 2) Each sludge incinerator shall have an afterburner and a high energy venturi and tray impingement scrubber installed.

Operating Limitations:

- 1) Neither sludge incinerator shall burn sewage sludge at a rate greater than 2.68 tons dry sludge per hour. Both incinerators may be operated at the same time, provided that all air pollution control devices are in operation.
- 2) A performance test to determine particulate loading and carbon monoxide emissions for both incinerators shall be completed on or before December 1, 1999, and at least every six (6) years thereafter.
- 3) The afterburners shall be operated as required to maintain the total hydrocarbons limit. The afterburners will be operated if total hydrocarbon emissions cannot be measured.

Emission Limitations:

- 1) Blue River Wastewater Treatment Plant shall maintain total hydrocarbons below one hundred (100) ppmv, corrected to zero percent (0%) moisture and seven percent (7%) oxygen, based on a monthly average.
- 2) No incinerator shall emit total suspended particulate matter greater than 0.08 grains per dry standard cubic foot of exhaust gas corrected to seven percent (7%) oxygen. The particulate emission rate shall be tested according to 10 CSR 10-6.030 (5). Compliance with this limitation satisfies both rules as the limitation is more stringent than 10 CSR 10-6.400 requirements.
- 3) No incinerator shall produce visible emissions in excess of ten percent (10%) opacity. This restriction shall not apply to opacity due to uncombined water in the effluent.
- 4) Carbon Monoxide (CO) emissions from each incinerator shall be limited to two hundred (200) ppmv. The CO emission rate shall be measured using Method 10 or Method 10B contained in the latest publication of 40 CFR Part 60, Appendix A.

- 5) Emissions of mercury from sludge incineration shall be regulated according to 40 CFR Part 61, Subpart E.

Monitoring and Record Keeping:

- 1) Blue River Wastewater Treatment Plant shall monitor and record the incinerator sludge feed rate.
- 2) The venturi pressure drop shall be continuously recorded and maintained between 15" and 30" of w.c.
- 3) The venturi and impingement tray scrubber water flow rate shall be continuously recorded. The manufacturer's recommended flow rate is 850 gallons per minute (gpm).
- 4) The incinerator hearth temperatures shall be continuously recorded. The desired temperature of Hearth No. 1 is 1000 °F or greater.
- 5) The incinerator opacity shall be monitored and recorded as required in Permit Condition PW002.
- 6) Blue River Wastewater Treatment Plant shall retain copies of testing and calculations showing compliance with these permit conditions.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

PERMIT CONDITION EU0010-002

10 CSR 10-6.080

Emission Standards for Hazardous Air Pollutants

40 CFR Part 61 Subpart C

National Emission Standard for Beryllium

Emission Limitation:

- 1) Blue River Wastewater Treatment Plant shall follow the procedures and requirements of 40 CFR Part 61, Subpart C for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart C, *National Emission Standard for Beryllium*.
- 2) Blue River Wastewater Treatment Plant shall not emit to the atmosphere more than ten (10) grams of beryllium over a twenty four (24) hour period [§61.32(a)].
- 3) The burning of beryllium and/or beryllium-containing waste, except propellants, is prohibited except in incinerators, emissions from which must comply with the standard. [§ 61.32(c)].

Testing:

- 1) Blue River Wastewater Treatment Plant shall perform testing as specified in 40 CFR Part 61, § 61.33, or the Administrator waives the requirement for emission testing because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the source is in compliance with the standard.[§ 61.13(h)(1)(iii)].
- 2) If applicable, all samples shall be analyzed and beryllium emissions shall be determined within 30 days after the source test as specified in § 61.33(d).

Monitoring:

The pressure drop monitoring required for permit condition EU0010-001.

Record Keeping:

Copies of analytical test results shall be retained. Any other data needed to determine total emissions shall be retained as specified in § 61.33(e) for sixty (60) consecutive months. These records shall be made immediately available to Kansas City, Missouri Department of Health or Air Pollution Control Program personnel for inspection upon request.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

PERMIT CONDITION EU0010-003

10 CSR 10-6.080

Emission Standards for Hazardous Air Pollutants

40 CFR Part 61 Subpart E

National Emission Standard for Mercury

Emission Limitation:

- 1) Blue River Wastewater Treatment Plant shall follow the procedures and requirements of 40 CFR Part 61, Subpart E for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart E, *National Emission Standard for Mercury*.
- 2) Emissions to the atmosphere from sludge incineration plants, sludge drying plants, or a combination of these that process wastewater treatment plant sludge, shall not exceed 3200 grams of mercury over a twenty four (24) hour period. [§ 61.52(b)]

Testing:

- 1) Blue River Wastewater Treatment Plant shall either perform testing as specified in 40 CFR Part 61, § 61.53(d) or demonstrate compliance using the methods and procedures specified in 40 CFR Part 61, § 61.54 (Sludge Sampling).
- 2) If applicable, all samples shall be analyzed and mercury emissions shall be determined within 30 days after the stack test as specified in § 61.53(d)(5).

Monitoring:

- 1) If emission level calculations or sludge tests (as noted above) show that mercury emissions exceed 1,600 grams per twenty four (24) hour period, monitoring shall be performed at intervals of at least once per year as specified in 40 CFR Part 61, § 61.55(a). Note: Sludge testing is done on a monthly basis at this installation.
- 2) No changes in the operation of this facility shall be made which would potentially increase emissions above the level determined by the most recent sludge test until the new emission level has been estimated by calculation and the results reported to the Kansas City, Missouri Department of Health.[§ 61.54(e)].

Record Keeping:

- 1) Records of calculations, sludge sampling, charging rate determination and other data needed to determine the mercury content of sludge at this facility shall be retained as specified in 40 CFR Part 61, § 61.54(g) for sixty (60) consecutive months. These records shall be made immediately available to Kansas City, Missouri Department of Health or Air Pollution Control Program personnel for inspection upon request.
- 2) If applicable, Records of emission test results and other data needed to determine total emissions shall be retained at the source and shall be made immediately available to Kansas City, Missouri Department of Health or Air Pollution Control Program personnel for inspection upon request as specified § 61.53(d)(6).

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

EU0020 – Three (3) Internal Combustion Engines			
Emission Unit	Description	Manufacturer/Model #	2008 EIQ Reference #
EU0020	Engine Generator No. 1, 450 kW, Reciprocating, 1992	Waukesha Engine Co., Model No. 7042GU	EP006
EU0020	Engine Generator No. 2, 450 kW, Reciprocating, 1992	Waukesha Engine Co., Model No. 7042GU	EP007
EU0020	Engine Generator No. 3, 450 kW, Reciprocating, 1992	Waukesha Engine Co., Model No. 7042GU	EP008

PERMIT CONDITION EU0020-001
10 CSR 10-6.060
Construction Permits Required KCMO Permit No. 510-C

Operating Limitations:

- 1) Blue River Wastewater Treatment Plant shall be limited to combust natural gas as the primary fuel in any one (1) of the three (3) engine generators at a time, up to 150,000 cubic feet per day, averaged over a seven-day period.
- 2) Blue River Wastewater Treatment Plant may combust up to 400,000 cubic feet per day of digester gas, averaged over a seven-day period.

Emission Limitations:

- 1) Twelve (12) month allowable emissions shall be limited to the following amounts:
 - NO_x = 149 tons
 - CO = 99 tons
 - SO₂ = 39 tons
 - VOC = 9.9 tons
- 2) Compliance with the above emission limits shall be demonstrated by completion and submittal of the Operating Permit Monitoring Report Forms.

Testing Requirements:

- 1) Blue River Wastewater Treatment Plant shall conduct stack testing using EPA methods 1 through 4, 7, 8 and 10 for at least one (1) of the three (3) engine generators while combusting digester gas. The stack test results shall be used to determine emission factors for CO, SO_x, and NO_x.
- 2) Blue River Wastewater Treatment Plant shall conduct stack testing using EPA methods 1 through 4, 7 and 10 for at least one (1) of the three (3) engine generators while combusting the primarily natural gas. The stack test results shall be used to determine emission factors for CO and NO_x.

Monitoring:

Fuel consumption shall be metered for each engine and each fuel and recorded on a daily basis.

Record Keeping:

Blue River Wastewater Treatment Plant shall maintain daily records of the amount and type of fuel combusted for each engine and the amount of fuels combusted averaged over a seven-day period. Attachment C or an equivalent form shall be used for this purpose.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

PERMIT CONDITION EU0020-002

KCMO Section 8-5(f)

Restrictions of Visible Emissions from Internal combustion engines

Emission Limitation:

- 1) No person shall cause or permit the emissions of visible air contaminants from any internal-combustion engine for more than five (5) consecutive seconds at any one time.
- 2) Exception: Where the presence of uncombined water is the only reason for failure of an emission to meet the requirements of this limit, the limitation shall not apply.

Monitoring

The permittee shall conduct semi-annual monitoring of the engine exhaust for visible emissions when the units are operated during maintenance inspections.

Record Keeping:

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

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

Reporting

The permittee shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

EU0030 – Trickling Filters			
Emission Unit	Description	Manufacturer/Model #	2000 EIQ Reference #
EU0030	Trickling Filter Vents, No. 1, 2, 3, 4	Odor Control Incinerator, 3.2 MMBtu/hr, Natural Gas	EP009

PERMIT CONDITION EU0030-001
10 CSR 10-6.060 and KCMO Section 8-10
Construction Permits Required KCMO Permit No. I-181

Operational Limitation:

- 1) Fuel usage shall not exceed 17,000 cubic feet of pipeline natural gas per hour, averaged over a monthly period.
- 2) No fuel other than pipeline natural gas shall be used in this incinerator.
- 3) Annual hours of operation of this incinerator shall not exceed 4400 hours per year.
- 4) A pipeline natural gas meter shall be installed on this incinerator.
- 5) A temperature sensing device and recording unit shall be installed on this incinerator.
- 6) The odor control incinerator shall be operated at a temperature of no less than 1300 °F.
- 7) The incinerator exhaust shall not exceed ten percent (10%) opacity.

Monitoring and Record Keeping

- 1) The incinerator opacity shall be monitored and recorded as required in Permit Condition PW002.
- 2) Blue River Wastewater Treatment Plant shall monitor and record the pipeline natural gas consumption of the incinerator on a daily basis.
- 3) Blue River Wastewater Treatment Plant shall maintain a daily record of the incinerator operating hours.
- 4) Attachment D, or an equivalent form, shall be used to certify compliance with Condition 1) and 3).

Reporting:

- 1) Blue River Wastewater Treatment Plant shall submit a yearly report giving the annual consumption of pipeline natural gas used in the incinerator. This report shall be submitted with the yearly Emission Inventory Report.
- 2) Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

EU0040 – Cold Cleaner			
Emission Unit	Description	Manufacturer/Model #	2000 EIQ Reference #
EU0040	Solvent Parts Washer, 2002	Crystal Clear, Twenty (20) gallon, serial No. 237924	EP015

PERMIT CONDITION EU0040-001
10 CSR 10-2.210
Control of Emissions From Solvent Metal Cleaning
KCMO Section 8-8(a)
Restriction of emission of VOC from solvent metal cleaning

Equipment Specifications:

- 1) Blue River Wastewater Treatment Plant shall not allow the operation of any cold cleaner using a cold cleaning solvent with a vapor pressure greater than 1.0 millimeters of Mercury mmHg (0.019 psi) at twenty degrees Celsius.(20°C) (sixty-eight degrees Fahrenheit 68°F).
- 2) Each cold cleaner shall have:
 - a) A cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position or an enclosed reservoir that will prevent the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
 - b) When one (1) or more of the following conditions exist, the cover shall be designed to operate easily such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten (10) square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighting or by power systems):
 - i) The solvent vapor pressure is greater than 0.3 psi measured at (37.8°C, 100°F).
 - ii) The solvent is agitated; or
 - iii) The solvent is heated.
 - c) Each cold cleaner shall have an internal drainage facility so that parts are enclosed under the cover while draining.
 - d) If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than 0.6 psi measured at (37.8°C, 100°F), then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
 - e) Solvent sprays (if used) shall be a solid fluid stream and operate at a pressure which does not cause any splashing above or beyond the freeboard.
 - f) A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment or in a location readily visible during operation of the equipment.
 - g) Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than 0.6 psi measured at (37.8°C, 100°F) or heated above (48.9°C, 120°F) must use one (1) of the following control devices:
 - i) A freeboard ratio of at least 0.75;
 - ii) Water cover (solvent must be insoluble in and heavier than water); or
 - iii) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to 65 percent. These control systems must receive approval from the Director and EPA prior to their use.

Operation Limitation:

- 1) Each cold cleaner shall be operated as follows:
 - a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir.
 - b) Cleaned parts shall be drained in the freeboard area for at least fifteen (15) seconds or until dripping ceases, whichever is longer.
 - c) Whenever a cold cleaner fails to perform within the rule operating requirements, the unit shall be shut down immediately and shall remain shut down until operation is restored to meet rule operating requirements.
 - d) Solvent leaks shall be repaired immediately or the cold cleaner shall be shut down until the leaks are repaired.
 - e) Any waste material removed from a cold cleaner shall be disposed of by one (1) of the following methods and in accordance with the Missouri Hazardous Waste Management Commission rules codified at 10 CSR 10-25, as applicable:
 - i) Reduction of the waste material to less than twenty percent (20%) VOC solvent by distillation and proper disposal of the still bottom waste; or
 - ii) Stored in closed containers for transfer to
 - (1) A contract reclamation service; or
 - (2) A disposal facility approved by the Director.
 - f) Waste solvent shall be stored in closed containers only.
- 2) Operators must be trained as follows:
 - a) Only persons trained in at least the operational and equipment requirements specified in this regulation for their particular solvent metal cleaning process shall be permitted to operate the equipment.
 - b) The supervisor of any person who operates a solvent metal cleaning equipment regulated by this rule shall receive equal or greater operational training than the operator.
 - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once each twelve (12) month period.
 - d) A record shall be kept of solvent metal cleaning training for each employee.

Monitoring:

Blue River Wastewater Treatment Plant shall monitor the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.

Record Keeping:

- 1) Blue River Wastewater Treatment Plant shall keep monthly inventory records of solvent types and amounts purchased and solvent consumed for a period of five (5) years.(Attachment E).
- 2) The records shall include all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises. (Attachment F)
- 3) Blue River Wastewater Treatment Plant shall keep maintenance and repair logs.(Attachment G)
- 4) Blue River Wastewater Treatment Plant shall maintain records which include for each purchase of cold cleaning solvent (Attachment H):
 - a) The name and address of the solvent supplier;
 - b) The date of purchase;
 - c) The type of solvent; and

- d) The vapor pressure of the solvent in millimeters of Mercury at twenty degrees Celsius (20°C) (68°F).
- e) Records shall be maintained of all solvent metal cleaning training for each employee. (Attachment I)
- f) Attachments E, F, G, H and I or equivalents of the Blue River Wastewater Treatment Plant design, must be used to certify compliance with these requirements.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

EU0050 – Gasoline Storage Tank			
Emission Unit	Description	Manufacturer/Model #	2000 EIQ Reference #
EU0050	5,000 gallons Underground Unleaded Gasoline Storage Tank, 1990	No Information	EP035

PERMIT CONDITION EU0050-001
10 CSR 10-6.060
Construction Permits Required KCMO Permit No. 791
10 CSR 10-2.260
Control of Petroleum Liquid Storage, Loading and Transfer

Equipment Limitation:

- 1) No owner or operator of a gasoline storage tank shall cause or permit the transfer of gasoline from a delivery vessel into a gasoline storage tank with a capacity greater than five hundred (500) gallons unless—
 - a) The storage tank is equipped with a submerged fill pipe extending unrestricted to within 6” of the bottom of the tank and not touching the bottom of the tank, or the storage tank is equipped with a system that allows a bottom fill condition;
 - b) All storage tank caps and fittings are vapor-tight when gasoline transfer is not taking place; and
 - c) Each storage tank is vented via a conduit that is
 - i) At least two inch (2”) inside diameter;
 - ii) At least twelve feet (12’) in height above grade; and
 - iii) Equipped with a pressure/vacuum valve that is California Air Resources Board (CARB) certified at three inches water column pressure/eight inches water column vacuum (3” wcp/8” wcv) except when the owner or operator provides documentation that the system is CARB certified for a different valve and will not function properly with a 3” wcp/8” wcv valve.

Monitoring, Record Keeping and Reporting:

- 1) Blue River Wastewater Treatment Plant shall maintain records documenting the vessel owners and number of delivery vessels unloaded by each owner for at least five (5) years after the date of

delivery. These records shall be made available immediately for inspection to Kansas City, Missouri Department of Health personnel within five (5) days of a request.

- 2) Blue River Wastewater Treatment Plant shall keep on-site copies of the loading ticket, manifest, or delivery receipt for each grade of product received, subject to examination by Kansas City, Missouri Department of Health personnel upon request. If a delivery receipt is retained rather than a manifest or loading ticket, the delivery ticket shall bear the following information: vendor name, date of delivery, quantity of each grade, point of origin, and the manifest or loading ticket number. The required retention on-site of the loading ticket, manifest, or delivery receipt shall be limited to the four (4) most recent records for each grade of product.

EU0060 – Diesel Engine Powered Equipment			
Emission Unit	Description	Manufacturer/Model #	2000 EIQ Reference #
EU0060	Six (6) 20-50 hp Portable Pumps	No Information	EP014 104-106
	Three (3) 50 hp Portable Compressors		EP017
	Four (4) Emergency Electric Generators, 13, 13, 100, and 200 kW		EP108

<p>PERMIT CONDITION EU0060-001 10 CSR 10-2.260 Control of Petroleum Liquid Storage, Loading and Transfer</p>

Emission Limitations:

- 1) Emissions from any source existing on September 25, 1968, shall not contain more than two thousand parts per million by volume (2000 ppmv) of sulfur dioxide, or seventy milligrams (70 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3) hour time period.
- 2) Emissions from any new source constructed after September 25, 1968, shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide, or more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3) hour time period.
- 3) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.
- 4) The emission unit shall be limited to burning diesel fuel with a sulfur content not exceeding 0.5 percent by weight.

Monitoring/Record Keeping:

- 1) Blue River Wastewater Treatment Plant shall monitor the percent of sulfur in the diesel fuel as delivered to accurately track the emissions of sulfur compounds. The sulfur content can be vendor supplied or facility generated.
- 2) Blue River Wastewater Treatment Plant shall retain the sulfur analysis of diesel deliveries to confirm compliance with this rule.

Reporting:

Blue River Wastewater Treatment Plant shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

PERMIT CONDITION EU0060-002

KCMO Section 8-5(f)

Restrictions of Visible Emissions from Internal combustion engines

Emission Limitation:

- 1) No person shall cause or permit the emissions of visible air contaminants from any internal-combustion engine for more than five (5) consecutive seconds at any one time.
- 2) Exception: Where the presence of uncombined water is the only reason for failure of an emission to meet the requirements of this limit, the limitation shall not apply.

Monitoring

The permittee shall conduct semi-annual monitoring of the engine exhaust for visible emissions when the units are operated during maintenance inspections.

Record Keeping:

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

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

Reporting

The permittee shall report to the Kansas City, Missouri Air Quality Program, 2400 Troost Avenue, Suite 3200, Kansas City, MO 64108, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.

IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR) 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. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

10 CSR 10-6.045, KCMO Section 8-4 Open Burning Requirements

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

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

10 CSR 10-6.050, KCMO Section 8-15 Start-up, Shutdown and Malfunction Conditions

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

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

10 CSR 10-6.060 Construction Permits Required

KCMO Section 8-10 Review of New Sources and Modifications; permit for construction or major modification

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

KCMO Section 8-11 Permit to Operate, Notification and Record Keeping

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

10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61
Subpart M National Emission Standard for Asbestos
KCMO Section 8-9 Restriction of emission of hazardous air pollutants

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

10 CSR 10-6.100 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
KCMO Section 8-3(e) Emission Inventory
KCMO Section 8-20 Fees

- 1) The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the Director.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
- 6) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the Director. The reports shall be submitted to the Director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential
KCMO Section 8-18 Controlling Emissions During Periods 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 10-6.180 Measurement of Emissions of Air Contaminants

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

10 CSR 10-2.070 Restriction of Emission of Odors
KCMO Section 8-7 Restriction of Emission of Odors
This requirement is not federally enforceable.

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

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

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

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

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

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and

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

V. General Permit Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

None

10 CSR 10-6.065(6)(C)1.J Emissions Trading

None

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10 CSR 10-6.020(2)(R)11 Responsible Official

The application utilized in the preparation of this permit was signed by Robert Williamson, PE, Division Manager. 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 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
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This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

Attachment B

Method 9 Opacity Emissions 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

Attachment C

EU0020 Electrical Generators Fuel Record

Day	Fuel Engine 1		Fuel Engine 2		Fuel Engine 3		Seven Day Average	
	Natural Gas (a)	Digester Gas (b)	Natural Gas (c)	Digester Gas (d)	Natural Gas (e)	Digester Gas (f)	Natural Gas (g)	Digester Gas (h)
Sum								
Sum								
Sum								
Sum								

Column (g): Add the seven (7) day sums of Columns (a), (c) and (e) and divide by seven (7)

Column (h): Add the seven (7) day sums of Columns (b), (d) and (f) and divide by seven (7)

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 October 13, 2006;
- 2) 2008 Emissions Inventory Questionnaire, received June 22, 2009; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

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

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

None

Other Air Regulations Determined Not to Apply to the Operating Permit

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

10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

This rule makes an exception for internal combustion engines except as provided in rule 10 CSR 10-2.080, therefore, the rule was not placed into the permit for any of the internal combustion engines.

10 CSR 10-6.220, *Restriction of Emissions of Visible Air Contaminants*

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

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

These rules are applicable to EP-4 and EP-5, Digester Boilers, 7MMBtu/hr each. However, as the boilers are only fueled with digester gas they would not be expected to exceed the twenty percent (20%) opacity limit, the eight (8) pounds of sulfur dioxide per MMBtu or the particulate limit of 0.60 pounds per MMBtu. Therefore, the boilers were not listed in the permit as emission units with limitations.

10 CSR 10-6.220, *Restriction of Emissions of Visible Air Contaminants*

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

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter from Industrial Processes.*

These rules are applicable to EP-2 and EP-3, East and West Sludge Digester Flares and EP-30, Sludge Holding Tank Flare. However, as these emission units are only fueled with digester gas they would not be expected to exceed the twenty percent (20%) opacity limit, the ppm limits of sulfur dioxide or the 0.5 lb PM/hr minimum particulate limit. Therefore, the flares were not listed in the permit as emission units with limitations.

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

This rule is applicable to EP-6, EP-7 and EP-8, the three digester/pipeline natural gas combusting gensets. However, as the sulfur oxides emissions would not be expected to ever exceed the 500 ppmv SO₂ or the 35 mg SO₃/M³ limits, the rule was not listed as applicable under EU0020.

Construction Permit Revisions

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

1) Construction Permit I 181 Odor Incinerator.

Condition 1) Changed natural gas fuel usage per hour averaged over a thirty (30) day period to a monthly period.

Condition 4) Changed recording natural gas consumption from weekly to a daily basis.

These changes were made as weekly and thirty (30) day periods do not mesh well with each other.

Condition 6) Changed the submitting of an annual pipeline natural gas usage in the odor incinerator report to; "Compliance with the above emission limits shall be demonstrated by completion and submittal of the Operating Permit Monitoring Report Forms."

2) Construction Permit 510-C

Condition 4) "Compliance with the emission limits (for NO_x, CO, SO₂, and VOC) shall be demonstrated through the annual Emission Inventory Questionnaire and the stack test developed emission factors", was changed to "Compliance with the above emission limits shall be demonstrated by completion and submittal of the Operating Permit Monitoring Report Forms."

New Source Performance Standards (NSPS) Applicability

10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart O, *Standards of Performance for Sewage Treatment Plants*

The installation is not subject to Subpart O, because the sludge incinerators were installed in 1965, prior to the effective date of the Subpart, June 11, 1973.

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

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

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

None of the rules apply to the 1000 gallon diesel fuel storage tank to EU0050, the gasoline storage tank, as their capacities are less than the required minimum.

Maximum Achievable Control Technology (MACT) Applicability

10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*

40 CFR Part 63, Subpart VVV, *National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works*

The installation is not subject to Subpart VVV, because it is not a major source of hazardous air pollutant emissions.

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

The rule is not applicable to EU0040 as the halogenated solvent content used is less than five percent (5%) by weight.

40 CFR Part 63, Subpart Q, *National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*.

The rule is not applicable as the cooling towers are not industrial process cooling towers. They are used for office air conditioning and laundry type chlorine bleach is the only additive.

The proposed MACT regulations, 40 CFR Part 63, Subpart ZZZZ, *Reciprocating Internal Combustion Engines* and Subpart DDDDD, *Industrial/Commercial/Institutional Boilers & Process Heaters* are not applicable as the installation is not a major source for HAPS.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

CFR Part 61, Subpart C, *National Emission Standard for Beryllium*

CFR Part 61, Subpart E, *National Emission Standard for Mercury*

CFR Part 61, Subpart M, *National Emission Standard for Asbestos*

Compliance Assurance Monitoring (CAM) Applicability

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

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

- 1) Is subject to an emission limitation or standard, and
- 2) Uses a control device to achieve compliance, and
- 3) 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.

Other Regulatory Determinations

None.

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:

Tandi Edelman
Environmental Engineer

CERTIFIED MAIL: 70093410000190188087
RETURN RECEIPT REQUESTED

Mr. Robert Williamson, P.E.
Blue River Wastewater Treatment Plant
7300 Hawthorne Rd
Kansas City, MO 64120

Re: Blue River Wastewater Treatment Plant, 095-0039
Permit Number: **OP2011-026**

Dear Mr. Williamson:

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 Tandi Edelman 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:tek

Enclosures

c: Kansas City Regional Office
PAMS File: 2006-10-067