

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: OP2018-006
Expiration Date: FEB 02 2023
Installation ID: 095-0021
Project Number: 2017-08-021

Installation Name and Address

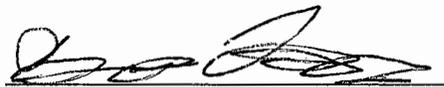
Veolia Energy - Kansas City
115 Grand Blvd
Kansas City, MO 64106
Jackson County

Parent Company's Name and Address

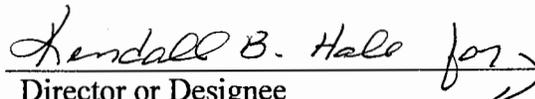
Veolia North America
53 State Street, 14th Floor
Boston MA, 02109

Installation Description:

The Veolia Energy – Kansas City installation operates a district heating and cooling system that provides steam, hot water, and/or chilled water to industrial, commercial, governmental and residential facilities in the downtown Kansas City area. The installation operates four boilers that provide steam for process heating, comfort heating, or hot water. All of the boilers operated by the installation combust natural gas. The installation is a major source of nitrogen oxides, hazardous air pollutants (hexane), and carbon monoxide emissions.



Prepared by
Adam Brooks EIT
Operating Permit Unit



Director or Designee
Department of Natural Resources

FEB 02 2018

Effective Date

Table of Contents

I. INSTALLATION EQUIPMENT LISTING	3
EMISSION UNITS WITH LIMITATIONS	3
EMISSION UNITS WITHOUT SPECIFIC LIMITATIONS	3
II. PLANT WIDE EMISSION LIMITATIONS.....	4
III. EMISSION UNIT SPECIFIC EMISSION LIMITATIONS	5
PERMIT CONDITION 001	5
10 CSR 10-6.065(6) Voluntary Limitation(s).....	5
PERMIT CONDITION 002.....	6
10 CSR 10-6.060 Construction Permits Required	6
Construction Permit 122016-009.....	6
PERMIT CONDITION 003.....	7
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations	7
40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.....	7
PERMIT CONDITION 004.....	9
10 CSR 10-2.210 Control of Emissions from Solvent Metal Cleaning.....	9
IV. CORE PERMIT REQUIREMENTS	11
V. GENERAL PERMIT REQUIREMENTS.....	16
VI. ATTACHMENTS	21
ATTACHMENT A	22
Boilers 1A, 6, and 8 Natural Gas Compliance Worksheet	22

I. Installation Equipment Listing

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.

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>
EP1	Boiler 1-A: 300 MMBtu/hr; Natural Gas; 1969
EP2	Boiler 6: 483.7 MMBtu/hr; Natural Gas; 1944
EP2	Boiler 8: 507.6 MMBtu/hr; Natural Gas; 1948
EP3	Boiler 7: 517 MMBtu/hr; Natural Gas; 1950
EP4	Cold solvent cleaner (2)

EMISSION UNITS WITHOUT SPECIFIC 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

Fuel Oil Storage Tank (693,000 gallon vertical fixed roof storage tank), EP5¹

¹ This storage tank is no longer in use therefore it is currently not a source of emissions. However, the tank is still listed because it remains at the installation.

II.Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The plant wide conditions apply to all emission units at this installation. All emission units are listed in Section I under Emission Units with Limitations and Emission Units without Limitations.

None.

III. Emission Unit Specific Emission Limitations

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

PERMIT CONDITION 001		
10 CSR 10-6.065(6) Voluntary Limitation(s)		

EP3 – Boiler 7		
Emission Unit	Description	Manufacturer/Model # (Year Installed)
EP3	Boiler 7 (517 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1950)

Operational Limitations:

The permittee shall exclusively combust natural gas in Boiler 7.

Monitoring / Recordkeeping Requirements:

None.

Reporting:

- 1) The permittee shall submit the following reports to the Air Pollution Control Program, Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, or AirComplianceReporting@dnr.mo.gov, and to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, no later than 10 days if any fuel other than natural gas is combusted.
- 2) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

PERMIT CONDITION 002

10 CSR 10-6.060 Construction Permits Required
Construction Permit 122016-009

EP1 and EP2 – Boilers 1A, 6, & 8

Emission Unit	Description	Manufacturer/Model # (Year Installed)
EP1	Boiler 1A (300 MM Btu/hr capacity) [Natural gas fired]	Babcock & Wilcox / Cyclopak (1969)
EP2	Boiler 6 (483.7 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1944)
EP2	Boiler 8 (507.6 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1948)

Emission / Operational Limitations:

- 1) The permittee shall exclusively combust natural gas in Boilers 1A, 6, & 8. [Special Condition 1A]
- 2) The permittee shall not discharge more than 799.34 tons of nitrogen oxides (NO_x) pollutants into the atmosphere from Boilers 1A, 6, & 8 combined in any consecutive 12-month period. [Special Condition 1B]

Monitoring / Recordkeeping Requirements:

- 1) The permittee shall record all NO_x emissions on a monthly basis with a consecutive 12-month total. Attachment A contains a log satisfying these recordkeeping requirements. This log, or an equivalent created by the permittee, must be used to certify compliance with this requirement. [Modified Special Condition 1C]
- 2) The permittee shall maintain all records required by this permit condition for not less than five years and shall make them available immediately to any Department of Natural Resources' Air Pollution Control Program personnel as well as any Kansas City Health Department personnel upon request.

Reporting:

- 3) The permittee shall submit the following reports to the Air Pollution Control Program, Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, or AirComplianceReporting@dnr.mo.gov, and to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, no later than 10 days after the end of the month during which any record required by this permit condition shows an exceedance of a limitation imposed by this permit.
- 4) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

PERMIT CONDITION 003

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

EP1 through EP3 – Boiler 1A through Boiler 7

Emission Unit	Description	Manufacturer/Model # (Year Installed)
EP1	Boiler 1A (300 MM Btu/hr capacity) [Natural gas fired]	Babcock & Wilcox / Cyclopak (1969)
EP2	Boiler 6 (483.7 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1944)
EP2	Boiler 8 (507.6 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1948)
EP3	Boiler 7 (517 MM Btu/hr capacity) [Natural gas fired]	Combustion Engineering (1950)

Operational Limitations:

- 1) The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boilers, except as provided under §63.7522. [§63.7500(a)(1)]

Table 3 to Subpart DDDDD of Part 63 — Work Practice Standards

If your unit is . . .	You must meet the following . . .
A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater	Conduct a tune-up of the boiler or process heater annually as specified in §63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions under this subpart. Units in all other subcategories will conduct this tune-up as a work practice for dioxins/furans.

- 2) At all times the equipment, including associated air pollution control equipment and monitoring equipment must be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [§63.7500(a)(3)]
- 3) The permittee shall meet the applicable general requirements as specified in §63.7505.
- 4) The permittee shall refer to Table 10 in 40 CFR Part 63, Subpart DDDDD to determine which parts of the General Provisions in §63.1 through 63.15 that apply. [§63.7565]

Notifications:

The permittee shall submit to the Air Pollution Control Program all of the notifications in §63.7(b) and (c), §63.8(e), (f)(4) and (6), and §63.9(b) through (h) that apply by the dates specified. [§63.7545(a)]

Recordkeeping:

- 1) The permittee shall retain a copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any semi-annual compliance report that the permittee submitted, according to the requirements in §63.10(b)(2)(xiv). [§63.7555(a)(1)]
- 2) The permittee shall retain records of performance tests, fuel analysis, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii). [§63.7555(a)(2)]
- 3) The permittee must keep the records required in Table 8 of 40 CFR Part 63, Subpart DDDDD. [§63.7555(c)]
- 4) Records shall be retained in a form suitable and readily available for expeditious review, according to §63.10(b)(1). [§63.7560(a)]
- 5) As specified in §63.10(b)(1), the permittee shall retain each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.7560(b)]
- 6) The permittee shall retain each record on site, or accessible from onsite (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). The permittee may retain the records off site for the remaining three years. [§63.7560(c)]
- 7) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.

Reporting:

- 1) The permittee shall submit the compliance report required by 40 CFR Part 63, Subpart DDDDD as part of the compliance certification required by Section V of this permit as allowed by §63.7550(b)(5).
- 2) The compliance report shall contain the following information: [§63.7550(c)(5)]
 - a) Company and Installation name and address.
 - b) Statement by the responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - c) Process unit information, emissions limitations, and operating parameter limitations.
 - d) Date of report and beginning and ending dates of the reporting period.

PERMIT CONDITION 004

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

EP5 – Cold Solvent Parts Washer

Emission Unit	Description	Manufacturer/Model #
EP5	Cold Solvent Parts Washer	N/A

Emission/Operational Limitation:

- 1) The permittee shall not use cleaning solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) at twenty degrees Celsius (20°C) in the EP5 Cold Solvent Parts Washer.
- 2) The cold cleaner shall have a cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position or an enclosed reservoir which will limit the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
- 3) The cover on the Cold Solvent Parts Washer shall be closed whenever parts are not being handled in the cleaner or the solvent must drain into an enclosed reservoir except when performing maintenance or collecting solvent samples.
 - a) The cold cleaner shall have a drainage facility which will be internal so that parts are enclosed under the cover while draining.
 - b) If an internal drainage facility cannot fit into the cleaning system and the solvent volatility is less than six-tenth pounds per square inch (psi) measured at 100 degrees F, then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
 - c) Cleaned parts shall be drained in the freeboard area for at least 15 seconds or until the dripping ceases, whichever is longer.

Monitoring / Recordkeeping Requirements:

- 1) A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment.
- 2) Only persons trained in at least the operational and equipment requirements specified in this rule for their particular solvent metal cleaning process shall be permitted to operate the equipment. The supervisor of any person who operates a solvent metal cleaning process shall receive equal or greater operational training than the operator. Refresher training shall be given to all solvent metal cleaning equipment operators at least once per calendar year.
- 3) If the cold cleaner fails to perform within the operating parameters established, the unit shall be shut down immediately and shall remain shut down until trained service personnel are able to restore operation of the unit within established parameters.
- 4) Solvent leaks shall be repaired immediately or the degreaser shall be shut down until the leaks are repaired.
- 5) Any waste material removed from a cold cleaner shall be disposed of by one (1) of the following methods or an equivalent method approved by the director and EPA:
 - a) Reduction of the waste material to less than twenty percent (20%) VOC solvent by distillation and proper disposal of the still bottom waste; or
 - b) Stored in closed containers for transfer to a contract reclamation service; or a disposal facility approved by the director and EPA.Waste solvent shall be stored in closed containers only.
- 6) The permittee shall maintain records which include for each purchase of cold cleaning solvent:
 - 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 mmHg at twenty degrees Celsius (20°C).
- 7) The permittee shall keep records of all types and amounts of solvent containing waste material from EP5 operations which are transferred to either a contract reclamation service or to a disposal facility and all amounts distilled on the premises. The records also shall include maintenance and repair logs for both the degreaser and any associated control equipment. These records shall be kept current and made available for review on a monthly basis. The director may require additional recordkeeping if necessary to adequately demonstrate compliance with this rule.
- 8) A record shall be kept of solvent metal cleaning training for each employee.
- 9) The permittee shall maintain these records on site for a minimum of 5 years.
- 10) The permittee shall immediately make these records available to any Department of Natural Resources or Kansas City Air Quality Program personnel upon request.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, AirComplianceReporting@dnr.mo.gov, no later than ten days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
- 2) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

IV. Core Permit Requirements

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

10 CSR 10-6.045 Open Burning Requirements

- 1) **General Provisions.** The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) 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.

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

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) 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 to the director in writing at least ten days prior to any maintenance, start-up or shutdown activity 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, notice shall be given as soon as practicable prior to the activity.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent

and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.

- 4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

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

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. The permittee shall retain the most current operating permit issued to this installation on-site. The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request.

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

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.

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

- 1) The permittee shall submit a 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) 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.
- 3) 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.

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

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

10 CSR 10-6.150 Circumvention

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

10 CSR 10-6.165 Restriction of Emission of Odors

This requirement is a State Only permit requirement.

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. This odor evaluation shall be taken at a location outside of the installation's property boundary.

10 CSR 10-6.170

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

Emission Limitation:

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

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

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

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

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

This is a State Only permit requirement.

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.

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:
- Monitoring methods outlined in 40 CFR Part 64;
 - Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
 - 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 at an installation:
- Monitoring methods outlined in 40 CFR Part 64;
 - A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
 - 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:
- Applicable monitoring or testing methods, cited in:
 - 10 CSR 10-6.030, “Sampling Methods for Air Pollution Sources”;
 - 10 CSR 10-6.040, “Reference Methods”;
 - 10 CSR 10-6.070, “New Source Performance Standards”;
 - 10 CSR 10-6.080, “Emission Standards for Hazardous Air Pollutants”;or
 - Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

40 CFR Part 82 Protection of Stratospheric Ozone (Title VI)

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
- 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 40 CFR §82.106.
- b) The placement of the required warning statement must comply with the requirements of 40 CFR §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in 40 CFR §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 of 40 CFR Part 82:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices described in 40 CFR §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment described in 40 CFR §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with the record keeping requirements of 40 CFR §82.166. ("MVAC-like" appliance as defined at 40 CFR §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR §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 contained 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.*

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

10 CSR 10-6.065(6)(E)3.C Extension of Expired Permits

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. If a timely and complete application for a permit renewal is submitted, but the Air Pollution Control Program fails to take final action to issue or deny the renewal permit before the end of the term of this permit, this permit shall not expire until the renewal permit is issued or denied.

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, Compliance and Enforcement Section, P. O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.
 - 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.
 - 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. 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 semiannual report shall be reported on the schedule specified in this permit.
- 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)

If the installation is required to develop and register a risk management plan pursuant to Section 112(R) of the Act, the permittee will verify that it has complied with the requirement to register the plan.

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

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

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

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

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

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

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

None.

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

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (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, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program, Compliance and 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 applicable 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, Compliance and Enforcement

Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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 APCP shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the APCP 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 APCP 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 permit, 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 contemporaneous written notice of the change to the Air Pollution Control Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3 of this rule. 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)34 Responsible Official

The application utilized in the preparation of this permit was signed by Richard Behrens, Plant 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 shall be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MoDNR) 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) MoDNR 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) MoDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

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

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

VI. Attachments

Attachments follow.

Attachment A

Boilers 1A, 6, and 8 Natural Gas Compliance Worksheet

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

Emissions	Monthly Natural Gas Combustion Rate (MMscf)	Monthly NO_x Emissions¹ (tons)
Boiler 1A		
Boiler 6		
Boiler 8		
Boilers 1A, 6, and 8 Monthly SSM NO_x Emission² (tons):		
Monthly NO_x Emissions³ (tons):		
12-Month Rolling Total NO_x Emissions⁴ (tons):		

¹Monthly NO_x Emissions = Monthly Natural Gas Combustion Rate (MMscf) x 170 lb/MMscf x 0.0005 (tons/lb). Where 170 lb/MMscf is the NO_x emission factor for Process SCC 10100604 in AP-42 Table 1.4-1. This equation determines NO_x emissions during period of normal operation (i.e. not during SSM events). A different emission factor cannot be used without this project being amended so that BAE also reflect the new emission factor and the NO_x limit in Special Condition I.B is revised.

²The sum of all SSM emissions from Boilers 1A, 6, and 8 for the month, as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with 10 CSR 10-6.050.

³Monthly NO_x Emissions (tons) = the sum of Monthly NO_x Emissions (tons) from Boilers 1A, 6, and 8. Monthly SSM NO_x Emissions (tons).

⁴12-Month Rolling Total NO_x Emissions (tons) = the sum of the 12 most recent Monthly NO_x Emissions (tons). 12-Month Rolling Total NO_x Emissions of less than 799.34 tons indicates compliance with Special Condition I.B.

STATEMENT OF BASIS

Installation Description

Veolia Energy – Kansas City operates a district heating and cooling system that provides steam, hot water, and/or chilled water to industrial, commercial, governmental and residential facilities in the downtown Kansas City area. The installation operates four boilers that provide steam for process heating, comfort heating, or hot water. Installation boilers can supply steam to a five (5) megawatt back pressure turbine generator owned and operated by Veolia Energy. Installation boilers can also supply steam to three steam-driven, water-cooled refrigeration units that are owned and operated by Veolia Energy.

All four of the installation's boilers run only on natural gas. Other sources of emissions include two solvent parts washers. The installation is a major source of nitrogen oxides (NO_x), and carbon monoxide (CO) emissions. The installation is also a major source for hexane.

This installation is on the list of named sources so fugitive emissions are included in the Potential to Emit (PTE) calculations. This installation's boilers previously combusted coal but ceased doing so in 2015 for Boilers 1A, 6, and 8 as well as in 2016 for Boiler 7. Therefore, the coal storage piles, coal screening, milling and transfer operations, fly ash loading, storage and transfer emission units have been removed from this permit. This explains why PM, SO_x, NO_x and HAP emissions exceed the current potential-to-emit.

Emission rates from the last 5 years and the potential emissions are shown in the table on the following page. All potential emission rates are also within the same table and are based upon construction permit 122016-009 and voluntary limits. Calculations for 122016-009 took worst case scenarios for each criteria pollutant based upon fuel oil or natural gas combustion for EP3 (Boiler 7). A new voluntary limitation via Permit Condition 001 limits the installation to only combust natural gas with EP3 therefore PTE values have decreased to reflect the new limitation. Emission Factors were obtained from AP 42 Chapter 1.4 (Table 1.4-1 for CO and NO_x, Table 1.4-3 for HAPs, and Table 1.4-2 for remaining criteria pollutants).

Emissions Summary, tons per year

Pollutants	2016	2015	2014	2013	2012	Potential to Emit ¹
Particulate Matter ≤ Ten Microns (PM ₁₀)	11.96	389.63	411.79	419.50	354.74	52.61
Particulate Matter ≤ 2.5 Microns (PM _{2.5})	11.94	385.44	407.36	414.98	350.92	52.61
Sulfur Oxides (SO _x)	24.86	7342.77	7782.32	7934.14	6702.23	4.15
Nitrogen Oxides (NO _x)	236.27	1314.05	1366.64	1386.03	1179.10	1176.75
Volatile Organic Compounds (VOC)	7.55	4.26	3.67	3.51	3.23	38.07
Carbon Monoxide (CO)	33.06	48.60	40.99	39.53	34.83	166.13
Lead (Pb)	0.00	0.00	0.00	0.00	0.02	0.00
Hazardous Air Pollutants (HAPs)	2.13	74.81	74.81	74.81	74.81	12.30
Hexane	-	-	-	-	-	11.88 ²

¹Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted.

²Hexane constitutes HAPs as a major source with a tpy of 11.88 which is greater than 10.00 tpy.

Permit Reference Documents

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

- 1) Part 70 Operating Permit Application, received August 10, 2017; revised September 5, 2017;
- 2) 2016 Emissions Inventory Questionnaire, received March 29, 2017;
- 3) U.S. EPA's Factor Information Retrieval (FIRE) Date System 6.25;
- 4) Construction Permit 112016-009, Issued December 21, 2016;
- 5) 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 (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated:

10 CSR 10-6.100, *Alternate Emission Limits*

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

Construction Permit History

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

Construction Permit 122016-009 indicates that the installation shall exclusively combust natural gas for Boilers 1A, 6, and 8 as well as all boilers had ceased combustion of coal in 2015. Thus, the SO_x limitation in the previous version of this permit, completed on March 4th, 2013, within the plant wide limitations has been omitted. Specifically, the limit, which derived from Construction Permit Kansas City Air Quality Program #541, Issued February 1, 1990 and Amended January 26, 1998, prevented the installation from discharging more than 14,467 tons of sulfur oxides pollutants (SO_x) into the atmosphere from the entire installation during any consecutive 12-month period. This limitation was based on the combustion of coal and consequently the value listed is much higher than the current potential to emit value of 4.15 tons per 12-month period for SO_x.

New Source Performance Standards (NSPS) Applicability

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

This rule is applicable to fossil-fuel-fired steam generating units of more than 250 million British thermal units per hour (MMBtu/hr) heat input rate which commenced construction or modification after August 17, 1971. Changes to an existing fossil-fuel-fired steam generating unit to accommodate the use of combustible materials, other than fossil fuels as defined in this subpart, shall not bring that unit under the applicability of this subpart. This rule was determined not to be applicable to Boilers 1, 6, 7 or 8, although each is a fossil-fueled boiler with a rated capacity of greater than 250 MM Btu/hr. These units were each constructed prior to 1971 and have not been reconstructed or modified since installation so as to become subject to the rule.

40 CFR Part 60 Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

This rule is applicable to electric utility steam generating units greater than 250 million British thermal units per hour heat input of fossil fuel (either alone or in combination with any other fuel) for which construction, modification, or reconstruction is commenced after September 18, 1978. This rule was determined not to be applicable to Boilers 1, 6, 7 or 8, although each is a fossil-fueled boiler with a rated capacity of greater than 250 MM Btu/hr. These units were each constructed prior to 1978 and have not been reconstructed or modified since installation so as to become subject to the rule. In addition, the permittee is not an electric utility.

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

This rule is applicable to steam generating units that commence construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 100 MMBtu/hr. This rule was determined not to be applicable to Boilers 1A, 6, 7, and 8 although each boiler has a rated heat capacity of greater than 100 MM Btu/hr. These boilers were all installed prior to 1984 and none has been reconstructed or modified since they were installed so as to meet the definition under this rule.

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

This rule is applicable to steam generating units that have a maximum heat input capacity greater than or equal to 10 MMBtu/hr to 100 MMBtu/hr for which construction, modification, or reconstruction is commenced after June 9, 1989. This rule was determined not to be applicable to the boilers at the installation since all have a rated heat capacity of greater than 100 MMBtu/hr.

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*

This rule was determined not to be applicable to the fuel oil storage tank although the capacity is greater than 75m³. This tank was constructed in 1968 and has not been reconstructed or modified since installation so as to meet the definition under this rule.

40 CFR Part 60 Subpart Y, *Standards of Performance for Coal Preparation Plants*

This rule is applicable to the following systems in coal preparation plants which process more than 200 tons per day and that commence construction or modification after October 24, 1974. Affected systems include thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), coal storage systems, and coal transfer and loading systems. This rule was determined to be not applicable to the installation because the boilers were constructed prior to 1974 and have ceased the combustion of coal.

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63, Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT)*

- This rule is applicable to all boilers and has been applied within Permit Condition 003.
- The previous operating permit, OP2012-050, included Tables 1 through 3 and 12 of the subpart. Tables 1, 2, and 12 do not apply to the installation. Table 3 remains applicable to the emission points at this installation.
 - Table 1 corresponds to new or reconstructed boilers and process heaters. Boilers 1A, 6, 7, and 8 were installed prior to June 4, 2010 and are therefore considered existing for the purposes of this subpart. No reconstruction has commenced on these boilers since this date. Thus, these boilers are not applicable to this table. [§63.7490(b)]
 - Table 2 corresponds to existing boilers and process heaters; however, none of the subcategories within this table apply as all boilers can only combust natural gas. Thus, these boilers are not applicable to this table.
 - Table 3 within this subpart requires installations with “an existing boiler or process heater located at a major source installation, not including limited use units” to perform a qualified energy assessment. The assessment was completed from September 5th through 7th, 2013 and it addressed the necessary conditions required within the table. Therefore, this assessment condition was omitted from within Permit Condition 003.
 - Table 12 corresponds to new or reconstructed boilers and process heaters that commenced construction or reconstruction after May 20, 2011, and before December 23, 2011. No reconstruction has commenced on these boilers within this period.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

None.

Compliance Assurance Monitoring (CAM) Applicability

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

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

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

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

Greenhouse Gas Emissions

This source may be subject to the Greenhouse Gas Reporting Rule. However, the preamble of the GHG Reporting Rule clarifies that Part 98 requirements do not have to be incorporated in Part 70 permits operating permits at this time. In addition, Missouri regulations do not require the installation to report CO₂ emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation's CO₂ emissions were not included within this permit. If required to report, the applicant is required to report the data directly to EPA. The public may obtain CO₂ emissions data by visiting <http://epa.gov/ghgreporting/ghgdata/reportingdatasets.html>.

Other Regulatory Determinations

1) 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

This rule does not apply to units that combust only natural gas; therefore, it is not applicable to emission units EP1 through EP3. [10 CSR 10-6.220(1)(A)]

2) 10 CSR 10-6.405, *Restriction of Particulate Matter Emissions From Fuel Burning Equipment Used For Indirect Heating*

This rule does not apply to units that combust only natural gas; therefore, it is not applicable to emission units EP1 through EP3. [10 CSR 10-6.405(1)(C)]

3) 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This rule does not apply to units that combust only natural gas; therefore, it is not applicable to emission units EP1 through EP3. [10 CSR 10.260(1)(A)2.]

4) 10 CSR 10-6.261, *Control of Sulfur Dioxide Emissions*

This rule does not apply to units that combust only natural gas; therefore, it is not applicable to emission units EP1 through EP3. [10 CSR 10.261(1)(A)]

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 APCP'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 APCP a schedule for achieving compliance for that regulation(s).

Response to Public Comments

The draft Part 70 Operating Permit for Veolia Energy – Kansas City (095-0021) was placed on public notice as of November 3, 2017 for a 30-day comment period. The public notice was published on the Department of Natural Resources' Air Pollution Control Program's web page at: <http://dnr.mo.gov/env/apcp/permit-public-notice.htm>. The Air Pollution Control Program received comments from Ms. Leslye Werner from EPA Region 7. The comments are addressed below.

Comment #: 1

Monitoring/Recording keeping Requirement 1., in Permit Condition 001 and in Permit Condition 002 require the permittee to maintain *accurate records* (emphasis added) as necessary to calculate NO_x emissions associated with the *corresponding operations* (emphasis added). The use of terms *accurate records* (emphasis added) and *corresponding operations* (emphasis added) are too vague as to be enforceable from a practical matter. EPA recommends MDNR consider specifying the exact records that are to be kept and the specific description of the operations (s) for which the records verify compliance.

Additionally Monitoring/Recordkeeping Requirement 2., In Permit Condition 001 and in Permit Condition 002, state that “all emission estimation methods are subject to approval by the Air Quality Program.” Again, it appears to EPA that Monitoring/Recordkeeping Requirement 2 is not enforceable from a practical matter. It seems to be inappropriate for the permittee to be estimating emissions from the combustion of natural gas in a boiler; where requirement 1 requires the permittee to “calculate” monthly NO_x and where there are several other more proven methods such as the use of a continuous emission monitoring system; stack gas monitored data; or use of AP-42 emission factors. Also, EPA suggests MDNR provide a definition as to who or what the Air Quality Program is or refer to a more familiar AIR Pollution Control Program (APCP).

Response to Comment:

Permit Conditions 001's *Monitoring/Recordkeeping Requirements* has been rewritten for clarity.

Permit Condition 002's *Monitoring/Recordkeeping Requirements 2.* has been removed.

Comment #: 2

Permit Condition 003 is included in the draft operating permit to incorporate the applicable requirements from 40 CFR Part 63, Subpart DDDDD-*National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters*. It appears that MDNR is attempting to incorporate the applicable requirements by reference (IBR) from the Maximum Achievable Control Technology (MACT) regulations. One of the goals of the Title V (Part 70) operating permit program is that both the source and the permitting authority gain a better understanding of the specific requirements applicable to the source which in turn would lead to improved compliance. There is values to be gained by a source and the permit writer by studying the specific requirements of specific standards, culling out those requirements that apply to a source and translating them in a logical fashion as operating permit conditions. Through this exercise, the source, the permit writer, the public, and EPA gain a better understanding of the requirements in general, as well as how the standard(s) specifically affect the permitted source. Therefore, the use of incorporation by reference (IBR) must balance “simplicity” of IBR with “precision”; the need to create unambiguous, comprehensive operating permits tailored to the specific source. It is EPA’s guidance, to permitting authorities, that all emission limits, standards, monitoring, recordkeeping, and reporting applicable to the specific emission unit(s), be clearly incorporated in the permit. Therefore, EPA encourages MDNR consider clearly incorporating monitoring requirements Permit Condition 003, with appropriate regulatory citation. The notification requirements can continue to be retained as an IBR.

Response to Comment:

The following statement was previously in Permit Condition 003 under *Monitoring*:

“The permittee shall conduct appropriate monitoring in accordance with §63.7525 and demonstrate continuous compliance in accordance with §§63.7535, 63.7540 and 63.7541.”

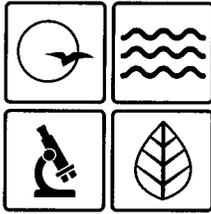
Upon re-examination of §63.7525, it was determined that no monitoring nor continuous compliance apply to the boilers. This is because there are no emission limitations that apply under Permit Condition 003. There is an operating limitation that applies which requires an annual tune-up and no monitoring is needed for this tune-up, only recordkeeping (which had already been applied). The *Monitoring* section from Permit Condition 003 has been removed and the *Emission Limitations* section has been renamed to *Operational Limitations*.

Comment #: 3

Section IV: *Core Permits Requirements* includes 10 CSR 10-6.250: *Asbestos Abatement Projects-Certification, Accreditation, and Business Exemption Requirements* incorporating the Asbestos Hazard Emergency Response ACT (AHERA) and its regulations for school districts and personnel working on asbestos activities in schools. The requirements associated with 10 CSR 10-6.250 have not been adopted in the EPA approved Missouri State Implementation Plan (SIP) and is therefore a “State Only Requirement,” and EPA recommends MDNR consider adding a “State Only Requirement” designation to 10 CSR 10-6.250.

Response to Comment:

The phrase “**This is a State Only permit requirement.**” has been added to 10 CSR 10-6.250 in Section IV.



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

FEB 02 2018

Mr. Richard Behrens
Veolia Energy - Kansas City
115 Grand Blvd
Kansas City, MO 64106

Re: Veolia Energy - Kansas City, 095-0021
Permit Number: OP2018-006

Dear Mr. Behrens:

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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

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 contact the Air Pollution Control Program (APCP) at (573) 751-4817, or you may write to the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

MJS:abj

Enclosures

c: PAMS File: 2017-08-021



Recycled paper