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: OP2019-020
Expiration Date: JUN 24 2024
Installation ID: 021-0129
Project Number: 2019-02-004

Installation Name and Address
KCP&L St. Joseph Landfill Generating Station
9431 SE 50th Road
St. Joseph, MO 64507
Buchanan County

Installation Description:
St. Joseph Landfill Generating Station operates one 2,233 horsepower engine for the purpose of generating up to 1.6 megawatts of electricity through the generator. The engine is fueled exclusively by landfill gas that is received from the St. Joseph Landfill. The facility also includes a 2,200 SCFM enclosed flare. The engine is subject to 40 CFR Part 60 Subpart JJJJ and 40 CFR Part 63 Subpart ZZZZ. The plant is a major source for Carbon Monoxide (CO) emissions. This facility and the St. Joseph Landfill (ID: 021-0105) are considered one installation for permitting purposes.

JUN 24 2019
Effective Date

Director or Designee
Department of Natural Resources
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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.

<table>
<thead>
<tr>
<th>Emission Source</th>
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<td>Engine #1 – 17.9 MMBtu/hr engine generator; 1.6 MW maximum power output; Fuel – landfill gas; Manufactured by Caterpillar; Installed October 2011</td>
</tr>
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</table>

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.

None.
II. Plant Wide Emission Limitations

The 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. The plant wide conditions apply to all emission units at this plant. All emission units are listed in Section I under Emission Units with Limitations and Emission Units without Limitations.

There are no plant-wide limitations.
III. Emission Unit Specific Emission Limitations

The 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.

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**Emission Limitation:**
The permittee shall emit less than 40.0 tons of nitrogen oxides (NOx) in any consecutive 12-month period from the emission sources of this permit condition. [Special Condition 2A]

**Monitoring/Recordkeeping:**
1) The permittee shall use Attachment A or an equivalent form to record the monthly and consecutive 12-month totals of NOx emissions. [Special Condition 2B]
2) The permittee shall maintain all records required by this permit condition for no less than five years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request. [Special Condition 3A]

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program’s Compliance and Enforcement Section at P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten days after an exceedance of the emission limitation. [Special Condition 3B]
2) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted semi-annually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.


**PERMIT CONDITION NSPS JJJJ**

10 CSR 10-6.070, New Source Performance Standards
40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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**Emission Standards:**

1) The permittee must comply with the emissions standards in Table 1 to 40 CFR Part 60 Subpart JJJJ that apply to the engines: [§60.4233(e)]
   a) The permittee shall not emit NOx in excess of 3.0 g/bhp-hr (220 ppmvd at 15% O2).
   b) The permittee shall not emit CO greater than 5.0 g/bhp-hr (610 ppmvd at 15% O2).
   c) The permittee shall not emit VOC greater than 1.0 g/bhp-hr (80 ppmvd at 15% O2).

2) The permittee must operate and maintain the engines to achieve the emission standards over the entire life of the engines. [§60.4234]

3) The permittee shall comply with the parts of the general provisions that apply to the installation. Table 3 to Subpart JJJJ shows which parts of the General Provisions in §§60.1 through 60.19 are applicable. [§60.4246]

**Compliance demonstration and testing requirements:**

1) The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engines in a manner consistent with good air pollution control practice for minimizing emissions. [§60.4234(b)(2)(ii)]

2) The permittee must demonstrate compliance with the emission standards by the following method:
   a) For uncertified engines, the permittee must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or three years, whichever comes first, thereafter to demonstrate compliance. [§60.4234(b)(2)(ii)]

3) The permittee must use the applicable test methods and procedures from §60.4244 of Subpart JJJJ.

**Recordkeeping and Reporting Requirements:**

1) The permittee must keep records of the following information: [§60.4245(a)(1) through (4)]
   a) All notifications submitted to comply with Subpart JJJJ and all documentation supporting any notification;
   b) Maintenance conducted on the engines;
   c) Documentation that the engine meets the emission standards.

2) The permittee must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed. [§60.4245(d)]

3) The permittee shall report to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limits.

4) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted semi-annually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.
### PERMIT CONDITION 003
10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds¹

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**Emission Limitation:**

1) The permittee shall not cause or permit the emission into the atmosphere gases containing more than 500 ppmv sulfur dioxide or more than 35 mg/m³ of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period. [10 CSR 10-6.260(3)(A)2]

**Monitoring/Recordkeeping/Reporting:**

None. See Statement of Basis.

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¹ This regulation was rescinded from Missouri Code of State Regulations on November 30, 2015 but it still remains in the EPA-approved SIP and thus still remains an applicable regulation. Upon adoption of 10 CSR 10-6.261 into Missouri’s SIP, 10 CSR 6.260 will be removed from the SIP and thus this rule will no longer be applicable to the installation. Upon removal of 10 CSR 10-6.260 from the SIP, this Permit Condition shall no longer be enforceable.
IV. Core Permit Requirements

The plant 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 Condition

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 make such permit available within a reasonable period of time to any Missouri Department of Natural Resources personnel upon request.

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.

Monitoring/Recordkeeping:
None. See Statement of Basis.

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 10-6.280 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 at an installation:
   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.

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:
   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 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 plant 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.

Permit Duration and 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.

General Record Keeping and Reporting Requirements

10 CSR 10-6.065(5)(C)1.C

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 available within a reasonable period of time 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 (5)(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.

Risk Management Plan Under Section 112(r)
10 CSR 10-6.065(5)(C)1.D
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.

Severability Clause
10 CSR 10-6.065(5)(C)1.F
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.

General Requirements
10 CSR 10-6.065(5)(C)1.G
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(5)(C)1.

Incentive Programs Not Requiring Permit Revisions
10 CSR 10-6.065(5)(C)1.H
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.

Reasonably Anticipated Operating Scenarios
10 CSR 10-6.065(5)(C)1.I
Operation of the flare is voluntary. This may change if the flare later becomes subject to 40 CFR Part 60, Subpart WWW.

Compliance Requirements
10 CSR 10-6.065(5)(C)3
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.

**Permit Shield**

*10 CSR 10-6.065(5)(C)6*

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.

**Emergency Provisions**

*10 CSR 10-6.065(5)(C)7*

1) An emergency or upset as defined in 10 CSR 10-6.065(5)(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.
Operational Flexibility

10 CSR 10-6.065(5)(C)8

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 or AirComplianceReporting@dnr.mo.gov, 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 or AirComplianceReporting@dnr.mo.gov, 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.

Off-Permit Changes

10 CSR 10-6.065(5)(C)9

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 or AirComplianceReporting@dnr.mo.gov, as well as the Missouri Compliance
Coordinator, Air Branch, Enforcement and Compliance Assurance Division, 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(5)(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.

**Responsible Official**

10 CSR 10-6.020(2)(R)34

The application utilized in the preparation of this permit was signed by Duane Anstaett, VP of Generation Operations. In addition, the following individuals have also been designated as Responsible Officials: John Bridson, Casey Bough, and Daniel Wilkus. If any noted Responsible Official terminates employment, or are reassigned different duties such that a different person becomes the responsible person(s) 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(s) 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.

**Reopening-Permit for Cause**

10 CSR 10-6.065(5)(E)6

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.

Statement of Basis
10 CSR 10-6.065(5)(E)1.C
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**  
**Monthly NOx Emissions Tracking**

This attachment covers the month of ______________ in the year ______________.

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Monthly Output</th>
<th>Emission Factor</th>
<th>Emission Factor Source</th>
<th>Monthly NOx Emissions² (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-9A Engine 1</td>
<td></td>
<td></td>
<td>Performance Test³</td>
<td></td>
</tr>
<tr>
<td>EP-8 Enclosed Flare</td>
<td>MMscf methane generated⁴</td>
<td>40 lb NOx/MMscf methane generated</td>
<td>SCC 50300601</td>
<td></td>
</tr>
</tbody>
</table>

**Startup, Shutdown, and Malfunction (SSM) Emissions⁵ (tons):**

<table>
<thead>
<tr>
<th>Sum of Monthly NOx Emissions⁶ (tons):</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Consecutive 12-month total of NOx Emissions⁷ (tons):</th>
</tr>
</thead>
</table>

---

² \( \frac{\text{Monthly Output} \times \text{Emission Factor}}{2000 \text{ lb/ton}} \).

³ Use the most recent stack test information. As of issuance of this permit, the latest stack test was performed in 2017 with a result of 1.72 g/Hp-hr NOx. The permittee had submitted retest plans late 2018 but results have not been finalized. The engine requires regular retesting per 40 CFR Part 60 Subpart JJJJ.

⁴ The permittee can assume a default value of 50% of all landfill gas burned is methane (default value from closed landfills, open landfills typically have less methane content), or they may use a methane content value from the landfill itself.

⁵ SSM emissions as reported to the Air Pollution Control Program’s Compliance and Enforcement Section per 10 CSR 10-6.050.

⁶ Sum of the Monthly NOx Emissions columns. Include SSM emissions.

⁷ Sum of the most recent 12 months of NOx emissions. A total of less than 40.0 tons NOx indicates compliance.
STATEMENT OF BASIS

Installation Description
St. Joseph Landfill Generating Station operates one 2,233 horsepower engine for the purpose of generating up to 1.6 megawatts of electricity through the generator. The engine is fueled exclusively by landfill gas that is received from the St. Joseph Landfill. The facility also includes a 2,200 SCFM enclosed flare. The engine is subject to 40 CFR Part 60 Subpart JJJJ and 40 CFR Part 63 Subpart ZZZZ. The installation is major for Carbon Monoxide (CO) emissions. This plant and the St. Joseph Landfill (ID: 021-0105) are considered one installation for permitting purposes. The St. Joseph Landfill is currently permitted under OP2019-007. The installation is not a Named Source.

The following is a table of emission sources located at St. Joseph Landfill Generating Station (ID: 021-0129) and the St. Joseph Landfill (ID: 021-0105), a table of potential emissions for the entire installation, and tables for reported emissions for each plant:

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-8</td>
<td>2,200 SCFM Enclosed Flare; Installed September 2011</td>
</tr>
<tr>
<td>EP-9A</td>
<td>Engine #1 – 17.9 MMBtu/hr engine generator; 1.6 MW maximum power output; Fuel – landfill gas; Manufactured by Caterpillar; Installed October 2011</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Passive Landfill Gas Emissions</td>
</tr>
<tr>
<td>EP-10</td>
<td>Wood Hog Grinder with Engine Storage Pile for Wood Chips</td>
</tr>
<tr>
<td>EP-02 through EP-06</td>
<td>Landfill Haul Roads</td>
</tr>
<tr>
<td>-</td>
<td>Wood-fired Space Heater</td>
</tr>
<tr>
<td>-</td>
<td>Waste Tire Processor with Engine</td>
</tr>
<tr>
<td>-</td>
<td>500 gallon gasoline Storage Tank</td>
</tr>
<tr>
<td>-</td>
<td>10,000 gallon diesel fuel Storage Tank</td>
</tr>
</tbody>
</table>
Updated Potential to Emit (PTE) for St. Joseph Landfill Generating Station (ID: 021-0129) and St. Joseph Sanitary Landfill (ID: 021-0105), tons per year:

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditioned PTE of KCP&amp;L Engine &amp; Flare</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM₁₀)</td>
<td>5.38</td>
<td>27.43</td>
<td>11.70</td>
<td>44.51</td>
</tr>
<tr>
<td>Particulate Matter &lt; 2.5 Microns (PM₂.₅)</td>
<td>5.38</td>
<td>2.74</td>
<td>11.68</td>
<td>19.80</td>
</tr>
<tr>
<td>Sulfur Oxides (SOₓ)</td>
<td>4.81</td>
<td>N/A</td>
<td>0.47</td>
<td>5.28</td>
</tr>
<tr>
<td>Nitrogen Oxides (NOₓ)</td>
<td>&lt;40.0</td>
<td>N/A</td>
<td>22.62</td>
<td>62.62</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>125.85</td>
<td>N/A</td>
<td>29.38</td>
<td>155.23</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>22.54</td>
<td>43.26</td>
<td>2.69</td>
<td>45.95</td>
</tr>
<tr>
<td>Total Hazardous Air Pollutants⁹ (HAPs)</td>
<td>5.32</td>
<td>11.32</td>
<td>0.24</td>
<td>11.56</td>
</tr>
</tbody>
</table>

Column Data obtained from CP122010-016B:
- For PM₁₀ & PM₂.₅, Column A + Column B + Column C. This accounts for the St. Joseph Landfill’s haul roads.
- For all other pollutants, Column D = (Worst-case scenario between Column A and Column B) + Column C.¹⁰

Reported Air Pollutant Emissions for St. Joseph Landfill Generating Station (ID: 021-0129)

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>2017¹¹</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM₁₀)</td>
<td>1.14</td>
<td>6.08</td>
<td>6.89</td>
<td>5.65</td>
<td>3.45</td>
</tr>
<tr>
<td>Particulate Matter &lt; 2.5 Microns (PM₂.₅)</td>
<td>1.14</td>
<td>6.08</td>
<td>6.89</td>
<td>5.65</td>
<td>3.45</td>
</tr>
<tr>
<td>Sulfur Oxides (SOₓ)</td>
<td>1.04</td>
<td>1.95</td>
<td>2.16</td>
<td>1.71</td>
<td>1.06</td>
</tr>
<tr>
<td>Nitrogen Oxides (NOₓ)</td>
<td>31.84</td>
<td>17.99</td>
<td>15.58</td>
<td>13.57</td>
<td>11.59</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>91.28</td>
<td>57.03</td>
<td>56.89</td>
<td>49.37</td>
<td>47.33</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>0.36</td>
<td>0.22</td>
<td>0.25</td>
<td>0.20</td>
<td>0.12</td>
</tr>
<tr>
<td>Total Hazardous Air Pollutants (HAPs)</td>
<td>7.69</td>
<td>0.01</td>
<td>0.01</td>
<td>&lt; 0.01</td>
<td>&lt; 0.01</td>
</tr>
</tbody>
</table>

⁸ Limited by Permit Condition 122010-016B.
⁹ Installation is a minor source of HAPs. The highest individual HAP is toluene, largely emitted from the landfill, which has a PTE of 4.45 tons per year based on the toluene concentration under the draft version of AP-42, Section 2.4.
¹⁰ Operation of the flare is voluntary; therefore, the worst-case scenario is shown between operating the flare and engine or the fugitive emissions from the landfill for non-particulate matter pollutants (i.e. combustion related pollutants).
¹¹ 2017 EIQ was revised based on updated emission factors established under stack testing reports received in 2018 for NOₓ, CO, and VOC, as required by NSPS JJJJ, as well as the inclusion of formaldehyde which accounts for the large increase in HAPs from the previous year. PTE values from the construction permit do not factor in the new emission factors as it was issued before the 2017 EIQ was revised.
### Reported Air Pollutant Emissions for St. Joseph Sanitary Landfill (ID: 021-0105)

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>Reported Emissions (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM_{10})</td>
<td>5.47</td>
</tr>
<tr>
<td>Particulate Matter ≤ 2.5 Microns (PM_{2.5})</td>
<td>0.54</td>
</tr>
<tr>
<td>Sulfur Oxides (SO₂)</td>
<td>0.00</td>
</tr>
<tr>
<td>Nitrogen Oxides (NOₓ)</td>
<td>0.00</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>0.00</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>5.22</td>
</tr>
<tr>
<td>Total Hazardous Air Pollutants (HAPs)</td>
<td>4.89</td>
</tr>
</tbody>
</table>

### 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 February 5, 2019;
2) 2013-2017 Emissions Inventory Questionnaires;
4) All construction permits listed in Construction Permit History.

### Construction Permit History

This lists construction permits issued to the St. Joseph Landfill Generating Station (ID: 021-0129). See OP2019-007 for the St. Joseph Sanitary Landfill (ID: 021-0105) for construction permits issued for the landfill itself.

Construction Permit 122010-016, issued December 30, 2010

This permit was issued for the installation of two engines and an enclosed flare. All special conditions have been superseded.

Construction Permit 122010-016A, issued January 16, 2013

This amendment was issued to account for changes between permitted and as-built carbon monoxide (CO) release parameters for the project emission units. All special conditions have been superseded. Required testing was performed on May 8, 2012, and the resulting emission factors are used for Attachment A. The testing results for EP-9A are as follows:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>100% Load (lb/hr)</th>
<th>75% Load (lb/hr)</th>
<th>50% Load (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>10.60</td>
<td>7.32</td>
<td>5.11</td>
</tr>
<tr>
<td>NOₓ</td>
<td>2.82</td>
<td>2.38</td>
<td>2.23</td>
</tr>
<tr>
<td>VOC\textsuperscript{12}</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

\textsuperscript{12}VOC emission rates are zero because the second test sampled total organic compounds which found only methane and ethane, which are not VOCs.
Construction Permit 122010-016B, issued September 17, 2018
This amendment removes the previous 250 tons CO limitation in previous permits because the permittee did not install one of the permitted engines and as a result, the PTE was reevaluated. The PTE was also reevaluated for the draft version of AP-42, Section 2.4 which does not make a distinction in toluene concentration between co-disposal and non co-disposal landfills. The permit contains three special conditions:
- Special Condition 1 supersedes all special conditions in Construction Permit 122010-016 and 122010-016A.
- Special Condition 2 contains NOx emission limitations that have been incorporated into the operating permit.
- Special Condition 3 contains general recordkeeping and reporting requirements that have been incorporated into the operating permit.
These special conditions appear in the operating permit under Permit Condition 122010-016B. This amendment also establishes that no

Missouri Code of State Regulations (CSR) Applicability
10 CSR 10-6.100, *Alternate Emission Limits*
This rule is not applicable because the installation is in an ozone attainment area.

10 CSR 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*
This rule applies; however, the permittee is not expected to produce fugitive emissions beyond the property boundaries and thus monitoring and recordkeeping requirements have been removed. While haul roads EP-02 through EP-06 exist for the St. Joseph Sanitary Landfill, fugitive emission monitoring is covered by OP2019-007.

10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*
This rule does not apply. The flare is exempt per (1)(L) due to burning exclusively landfill gas. It does not apply to the engine (EP9A) due to being exempt per (1)(A).

10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*
This rule applies and appears in the operating permit under Permit Condition 6.260. This rule applies until the EPA approves the SIP rescinding the regulation; however, no monitoring/recordkeeping/reporting requirements were included in the operating permit. Both the draft and final versions of AP-42 Section 2.4.4.2 list a default sulfur compound concentration of 46.9 ppmv for landfill gas which will result in emissions below the emission limitation of 500 ppmv within the regulation.

10 CSR 10-6.261, *Control of Sulfur Dioxide Emissions*
This rule applies; however, it has not been applied within the operating permit. There are no applicable limitations that apply to landfill gas in the rule.

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Processes*
This rule does not apply. The flare and engine do not meet the definition of 'process weight' in 10 CSR 10-6.020 and thus this process weight rule is not applicable. The definition of process weight specifically excludes liquid and gas fuels for purposes of combustion. Fugitive emissions from the haul roads are exempt per (1)(B)7.
New Source Performance Standards (NSPS) Applicability

**40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

Engine #1 (EP-9A) is subject to this subpart and the requirements have been incorporated into the operating permit under Permit Condition NSPS JJJJ. Initial notification was submitted on June 26, 2012. The engines are non-certified and require regular retesting. The most recent testing as of issuance of this operating permit occurred in 2017 with a result of 1.72 g/Hp-hr NOx. As of issuance of this operating permit, the permittee has submitted a retest plan in late 2018 but the final test report is yet to be submitted.

**40 CFR Part 60 Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills**

This subpart applies to the St. Joseph Landfill, the source of the landfill gas that is used by the St. Joseph Landfill Generating Station. At this time the annual NMOC emission rate is less than 50 megagrams; therefore, the flare and engine are not subject to the control device requirements of Subpart WWW at this time and the provisions of Subpart WWW are not included in this operating permit.

Maximum Achievable Control Technology (MACT) Applicability

**40 CFR Part 63 Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills**

This regulation does not currently apply to the St. Joseph Landfill nor St. Joseph Landfill Generating Station, however it will apply if the NMOC emission rates exceed 50 Mg/year and the landfill is required to use a control device (in this case, the flare or engines) or the installation becomes a major source of HAP emissions. This is not expected to occur during the life of this operating permit; therefore, the provisions of this subpart have not been included in this permit.

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

Engine #1 (EP-9A) is subject to this regulation, however this unit meet the requirements of Subpart ZZZZ by complying with the requirements of 40 CFR Part 60 Subpart JJJJ. Therefore, this regulation is not included in the operating permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

**40 CFR Part 61, Subpart M – National Emission Standards for Asbestos**

This subpart currently applies to the landfill itself (which accepts asbestos containing materials) and is incorporated into OP2019-007. However, it does not apply to the generating station.

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

**Compliance Assurance Monitoring (CAM) Applicability**

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

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

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

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. However, if the annual NMOC emission rate of the landfill were greater than 50 megagrams 40 CFR Part 60 Subpart WWW would apply along with its control device requirements. In that case, CAM may apply to the flare and/or engine.

**Greenhouse Gas Emissions**

Note that 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 applicable, the applicant is required to report the data directly to EPA. The public may obtain CO₂ emissions data for applicable installations by visiting [http://epa.gov/ghgreporting/ghgdata/reportingdatasets.html](http://epa.gov/ghgreporting/ghgdata/reportingdatasets.html).

**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 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 KCP&L St. Joseph Landfill Generating Station (021-0129) was placed on public notice as of April 12, 2019 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-notices.htm.

No comments were received.
JUN 24 2019

Mr. Duane Anstaett  
St. Joseph Landfill Generating Station  
9431 SE 50th Road  
Saint Joseph, MO 64507

Re: Part 70 Operating Permit Renewal  
Installation ID: 021-0129, Permit Number: OP2019-020

Dear Mr. Duane Anstaett:

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 RS Mo 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:ap

Enclosures

c: PAMS File: 2019-02-004