

Facility DEC ID: 9063600006

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-0636-00006/00019
Effective Date: 04/21/2021 Expiration Date: 04/20/2026

Permit Issued To: CHAUTAUQUA COUNTY
3 N ERIE ST
MAYVILLE, NY 14757-1007

Contact: PANTELIS K PANTELI
CHAUTAUQUA COUNTY DPF
3889 TOWERVILLE RD
JAMESTOWN, NY 14701
(716) 985-4785

Facility: CHAUTAUQUA COUNTY LANDFILL
3889 TOWERVILLE RD
JAMESTOWN, NY 14701

Description:

NEW EMISSION UNIT

The Chautauqua County Landfill located in the Town of Ellery, New York is proposing a new Renewable Natural Gas (RNG) plant to provide the facility with the capability to collect all landfill gas available from the landfill, clean the gas, and compress and transmit the gas off-site as pipeline quality RNG that can be combusted by other end-users.

The new RNG process is being permitted as an additional emission unit to the existing Title V permit. As allowed under 6 NYCRR Part 201-6.2(a)(3), construction and operation of the new emission unit identified as 1-RNGAS is authorized pursuant to section 201-5.2. A title V permit modification to incorporate the new emission unit into the existing Title V permit is required within one year of the commencement of operation of the new emission unit.

The new 1-RNGAS emission unit includes a new process identified as RNG and three new emission sources including a 600 bhp natural gas compressor engine (COMPR) and two pressure swing adsorption units (PSA01 and PSA02). The new RNG plant will be located adjacent to the existing landfill gas to energy (LFGTE) plant. The natural gas fired compressor is the only new emission point, identified as COMPR. Exhaust from the PSA units will be directed to the existing flare and existing power plant.

The collected landfill gas will be processed through the existing landfill gas treatment system (which will remain the primary gas collection and control system pursuant to 40 CFR 60.762(b)(2)(iii)(C)) and then further treated to pipeline quality in the RNG process. The RNG process will include two pressure swing adsorption (PSA) gas cleaning skids designed to remove carbon dioxide, volatile organic compounds, and other contaminants from the landfill gas, thus purifying the gas to pipeline quality. The primary gas cleaning skid (PSA01) will create "tail gas" (comprised primarily of CO₂ with trace amounts of volatile compounds and methane) that will be sent to one of the existing on-site flares for destruction. The secondary gas cleaning skid (PSA02) will create a similar concentration of tail gas that will be sent to one (or

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two, depending on total flow of tail gas and makeup natural gas needed) of the engines at the LFGTE plant.

EXISTING SOURCES

Chautauqua County Landfill will continue to own, operate and maintain the existing landfill gas treatment system and the LFGTE plant. The existing landfill gas treatment system complies with the control system requirements of the Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction After July 17, 2014, Subpart XXX (NSPS-XXX), 40 CFR 60.762(b)(2)(iii)(C). The existing LFGTE plant includes six (6) Caterpillar G3520C internal combustion engine generator sets and two (2) 3,000 standard cubic feet per minute (scfm) open flares. The LFGTE engines are subject to the reciprocating internal combustion engine (RICE) rules of 40 CFR 60 Subpart JJJJ and 40 CFR 63 Subpart ZZZZ. The open flares comply with the control system requirements of NSPS-XXX, 40 CFR 60.762(b)(2)(iii)(A) and in accordance with the parameters established in 40 CFR 60.18, except as noted in 40 CFR 60.764(e).

EXISTING PSD CAPS

Chautauqua County Landfill will continue to maintain the existing carbon monoxide (CO) and sulfur dioxide (SO₂) Prevention of Significant Deterioration of Air Quality (PSD) capped limits. The maximum potential CO and SO₂ emissions from the new compressor engine at the RNG plant are 23 tpy and 24 lbs/yr, respectively. The new compressor engine was added as a source of CO and SO₂ emissions to the existing caps, while maintaining the capped limits, as summarized below:

- (i) Limit CO emissions from the six (6) existing Caterpillar G3520C LFG engines and the new RNG compressor engine to less than 277 tons per year (tpy) during any consecutive 12-month period.
- (ii) Limit the combined CO emissions from the six (6) existing Caterpillar G3520C LFG engines, the two (2) existing 3,000 scfm open flares, and the one new RNG compressor engine to less than or equal to 312 tpy during any consecutive 12-month period.
- (iii) Limit the combined emissions of sulfur dioxide (SO₂) from the six (6) existing LFG engines, the two (2) existing LFG open flares, and the new RNG compressor to less than or equal to 85 tpy during any consecutive 12-month period.

NEW COMPRESSOR ENGINE 40 CFR 63 SUBPART ZZZZ REQUIREMENTS

The RNG compressor engine is a 600 bhp Natural Gas Fired Compressor, Cooper Machinery Services DPC 2803LE, Ajax, fuel injected, spark ignited, naturally aspirated, 2-stroke lean burn engine (2SLB). The engine was built in 2006. Pursuant to the National Emission Standards for Hazardous Air Pollutants for Stationary RICE, Subpart ZZZZ (NESHAP-ZZZZ), §63.6590, a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if construction commenced on or after December 19, 2002.

The NESHAP-ZZZZ requirements for a new 600 hp, 2SLB engine at a major source include:

- (i) Emission Standards - Reduce CO emissions by 58 percent or more; or Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O₂;
- (ii) Operating Limitations - Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F;
- (iii) Testing - Initial emission performance test and subsequent performance testing semiannually (can reduce frequency to annual);
- (iv) Notifications; and

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(v) Semiannual compliance reports.

CLIMATE LEADERSHIP AND COMMUNITY PROTECTION ACT (CLCPA) ASSESSMENT

The potential climate impacts of this significant permit modification (which is being permitted pursuant to 6NYCRR Part 201-6.2(a)(3)) were evaluated in accordance with the requirements of Section 7(2) of CLCPA. The proposed Renewable Natural Gas (RNG) project at the Chautauqua County Landfill reduces the current greenhouse gas (GHG) emissions at the facility by approximately 76,803 tons of carbon dioxide equivalents (CO₂e) during the peak year of landfill gas generation. Emission reductions will occur through the collection and processing of landfill gas generated from anaerobic decomposition of waste at the existing Chautauqua County Landfill to RNG for offsite transport and use. For this reason, the Department has determined that this modification is consistent with the goals of CLCPA.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: LISA M CZECHOWICZ
NYSDEC - REGION 9
270 MICHIGAN AVE
BUFFALO, NY 14203-2915

Authorized Signature: _____ Date: ___ / ___ / ____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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- 6 2 Relationship of this Permit to Other Department Orders and Determinations
- 6 3 Applications for permit renewals, modifications and transfers
- 7 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 7 5 Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS

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DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
(716) 851-7165

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ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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Permit Issued To:CHAUTAUQUA COUNTY
3 N ERIE ST
MAYVILLE, NY 14757-1007

Facility: CHAUTAUQUA COUNTY LANDFILL
3889 TOWERVILLE RD
JAMESTOWN, NY 14701

Authorized Activity By Standard Industrial Classification Code:
3519 - MANUFACTURE OF INTERNAL COMBUSTION ENGINES
4911 - ELECTRIC SERVICES
4953 - REFUSE SYSTEMS

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- 7 *3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 9 *4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
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EU=1-RNGAS

- 14 7 40CFR 63.6590(a)(2), Subpart ZZZZ: Applicability of new RICE greater than 500 HP at a HAP major facility
- 14 8 40CFR 63.6595(a)(3), Subpart ZZZZ: Compliance deadline for new or reconstructed stationary RICE
- 14 9 40CFR 63.6600(b), Subpart ZZZZ: Compliance Demonstration
- 16 10 40CFR 63.6600(b), Subpart ZZZZ: Compliance Demonstration
- 17 11 40CFR 63.6600(b), Subpart ZZZZ: Compliance Demonstration
- 19 12 40CFR 63.6600(b), Subpart ZZZZ: Compliance Demonstration
- 21 13 40CFR 63.6625(b), Subpart ZZZZ: Compliance Demonstration
- 23 14 40CFR 63.6625(h), Subpart ZZZZ: Compliance Demonstration
- 24 15 40CFR 63.6645, Subpart ZZZZ: Compliance Demonstration
- 25 16 40CFR 63.6650(b), Subpart ZZZZ: Compliance Demonstration
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- 32 20 6 NYCRR Subpart 201-5: Emission Unit Definition
- 33 21 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 33 22 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 34 23 6 NYCRR 211.1: Air pollution prohibited

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- 34 24 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 34 25 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

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required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Non Applicable requirements
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 6 NYCRR 201-6.4 (g)

Item 1.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR Subpart 231-6

Reason: The proposed project is a modification at an existing major facility located at an attainment area of the State within the ozone transport region. The modification project emission potential or potential to emit (PTE) of non-attainment contaminants from the new emission source include NO_x=11.6 tpy and VOC=2.6 tpy. The PTE of the contaminants do not equal or exceed the applicable significant project threshold in table 3 of Subpart 231-13 for non-attainment new source review (NNSR) areas. As a result, the modification does not constitute a “NSR major modification” as defined in Subpart 231-4.1(b) and, thus, the project is not subject to a NNSR review pursuant to Subpart 231-6.

6 NYCRR Subpart 231-8

Reason: The proposed project is a modification at an existing major facility located in an attainment area of the State. The modification project emission potential or potential to emit (PTE) of attainment contaminants from the new emission source include NO_x=11.6 tpy, CO=22.8 tpy, PM₁₀/PM_{2.5}= 0.8 tpy and SO₂=0 tpy. The PTE of the contaminants do not equal or exceed the applicable significant project threshold for attainment areas in table 6 of Subpart 231-13. As a result, the modification

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otherwise be subject to:

6 NYCRR Subpart 231-8

Item 3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 3.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

CARBON MONOXIDE EMISSION LIMIT
277 TPY FROM 6 EXISTING LFG ENGINES AND
ONE (1) RNG COMPRESSOR ENGINE

(1) Emissions of CARBON MONOXIDE (CO) resulting from the facility's six (6) LFG engines and the new RNG compressor engine shall not exceed 277 tons per year (tpy) during any consecutive 12-month period.

(2) The facility shall continuously monitor the

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kilowatt-hours (kWh) generated by each of the six LFG engines and keep records of the monthly megawatt-hours (MWh).

(3) The facility shall continuously monitor the hourly usage of the RNG compressor engine and keep records of the total hours of operation per month.

(4) Monthly Engine Carbon Monoxide emissions shall be calculated as follows:

(a) Monthly CO emission from LFG engine = [(actual monthly gross electrical output, in kWh) x (1.341 bhp/kW) x (engine CO emission factor from most recent performance test, in g/bhp-hr)] / [453.6 g/lb]

(b) If no data is available for a specific LFG engine, the facility shall use the highest emission factor from the other engines on-site.

(c) Monthly CO emissions from the RNG compressor engine = [Initially use the manufacturer provided CO emission factor of 5.21 lbs/hr. Then use the engine CO emission factor from the most recent performance test, in lbs/hr] X [actual hourly usage].

(d) The monthly CO emissions from each engine shall be summed to give the total for all engines operating during each month.

(e) The combined engine monthly CO emissions shall be added to the previous 11 months of CO emissions to give a total CO emission rate over the most recent consecutive 12 month period. The CO emissions over any consecutive 12-month period shall not exceed 277 tons.

(5) Maintain records of the monthly CO emission calculations and supporting documentation and keep on site for 5 years.

(6) Submit a compliance report semi-annually of the rolling 12-month CO emissions.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 277 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 4: Capping Monitoring Condition
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

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Item 4.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-8

Item 4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 4.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 4.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

CARBON MONOXIDE EMISSION LIMIT
312 TPY FROM FLARE AND ENGINES COMBINED

(1) Combined emissions of CARBON MONOXIDE (CO) from the six (6) existing LFG engines, two (2) existing LFG open flares and one (1) RNG compressor engine shall be less

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than or equal to 312 tons per year (tpy) during any consecutive 12-month period. While the entire amount of 312 tpy of CO may be emitted by the two open flares, as specified in Condition #2 of this permit, the CO potential to emit of the six (6) LFG engines and RNG engine is limited to less than or equal to 277 tpy of CO.

(2) To demonstrate compliance with the 312 tpy CO limit, the facility shall perform the following:

(a) The facility shall operate and maintain devices that continuously measure the flow of landfill gas to the LFG engines and LFG open flares.

(b) The facility shall operate and maintain devices that continuously measure the flow of natural gas to the RNG engine and maintain a non-resettable hour meter.

(c) Calculate CO emissions from the engines following the method specified in Condition #3 of this permit;

(d) Monthly CO emissions from the flares = $[(0.37 \text{ lbs/MMBtu emission factor provided in the permit application}) \times (\text{actual LFG combusted in the flares, in MMscf/month}) \times (456.5 \text{ Btu/scf design LFG heat content})] = \text{lbs CO/month.}$

(e) The total sum of the engine and flare CO emissions shall not exceed 312 tpy.

(3) Maintain records of the monthly emission calculations, gas flow data and meter readings on-site for 5 years.

(4) Submit a semi-annual compliance report of the 12-month rolling CO emissions.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 312 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 5: Capping Monitoring Condition
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 5.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

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6 NYCRR Subpart 231-8

Item 5.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 5.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 5.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 5.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

SULFUR DIOXIDE EMISSION LIMIT
85 TPY FROM FLARE AND ENGINES COMBINED

(1) Combined emissions of SULFUR DIOXIDE (SO₂) from the six (6) existing landfill gas (LFG) engines, two existing LFG open flares and one RNG compressor engine shall be less than or equal to 85 tons per year (tpy) during any consecutive 12-month period.

(2) Monitor the total reduced sulfur (TRS) concentration in the LFG. At a minimum, the LFG shall be sampled from the main header and analyzed for TRS once every five

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years.

(3) Monthly SO₂ emissions shall be calculated as follows:

(a) Monthly LFG SO₂ emissions = [(total actual LFG burned in LFG engines and flares, in MMscf/month) x (TRS as H₂S ppmv from most recent test result) x (64 mol wt SO₂) x (1 lb mol SO₂/lb mol H₂S) x (1 lb mol ideal gas/386 scf)]= lb/month SO₂

(b) Monthly supplemental NG SO₂ emissions = [(total actual NG burned in flares and LFG engines, in MMscf/month) x (AP-42 EF 0.6 lb/MMscf)]=lb/month SO₂

(c) Monthly NG SO₂ emissions = [(total actual NG burned in the RNG engine, in MMscf/month) x (AP-42 EF 5.88E-04 lb/MMBtu) x 1,020 Btu/scf] = lb/month SO₂

(d) The total combined monthly SO₂ emissions shall be added to the previous 11 months of SO₂ emissions to give a total SO₂ emission rate over the most recent consecutive 12-month period. The SO₂ emissions over any consecutive 12-month period shall not exceed 85 tons.

(4) Maintain records of monthly emission calculations, supporting documentation and the most recent TRS test data for 5 years.

(5) Report the 12-month rolling SO₂ emissions semi-annually.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 85 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 6: Visible Emissions Limited
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:6 NYCRR 211.2

Item 6.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

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****** Emission Unit Level ******

Condition 7: Applicability of new RICE greater than 500 HP at a HAP major facility
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6590(a)(2), Subpart ZZZZ

Item 7.1:

This Condition applies to Emission Unit: 1-RNGAS

Item 7.2:

An affected source is any new stationary reciprocating internal combustion engine (RICE) with a site-rating of more than 500 brake horsepower located at a major source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

A stationary RICE is new if construction or reconstruction commenced on or after December 19, 2002.

Condition 8: Compliance deadline for new or reconstructed stationary RICE
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6595(a)(3), Subpart ZZZZ

Item 8.1:

This Condition applies to Emission Unit: 1-RNGAS

Item 8.2:

Owners or operators of new or reconstructed stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that start up after August 16, 2004 must comply with the applicable emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ upon startup.

Condition 9: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6600(b), Subpart ZZZZ

Item 9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 9.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

40CFR 63 SUBPART ZZZZ - TABLE 2b
OPERATING LIMITATIONS
PRESSURE DROP ACROSS CATALYST

(1) The owner or operator of a new 2 stroke lean burn stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions using an oxidation catalyst to meet the emission limits listed in Table 2a must maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test.

[§63.6600(b) and Table 2b, Item 1]

(2) Demonstrate continuous compliance according to methods specified in Table 6 by measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

[§63.6640(a) and Table 6, Item 1]

(3) Report each instance in which you did not meet each emission limitation or operating limitation in Tables 2a and 2b. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE. [§63.6640(b)].

(4) For new stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. [§63.6640(d)]

(5) Submit reports according to the requirements in §63.6650.

(6) Keep records according to the requirements in §63.6655.

Parameter Monitored: PRESSURE DROP

Upper Permit Limit: 2 inches of water

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Monitoring Frequency: MONTHLY
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
 SEE MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 10: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 40CFR 63.6600(b), Subpart ZZZZ

Item 10.1:
 The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 10.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE
 Monitoring Description:

40CFR 63 SUBPART ZZZZ - TABLE 2b
 OPERATING LIMITATIONS
 CATALYST INLET TEMPERATURE

- (1) The owner or operator of a new 2 stroke lean burn stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions using an oxidation catalyst to meet the emission limits listed in Table 2a must maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. [§63.6600(b) and Table 2b, Item 1]
- (2) Demonstrate continuous compliance according to methods specified in Table 6 by [§63.6640(a) and Table 6, Item 1]:
 - (i) Collecting the catalyst inlet temperature data according to §63.6625(b);
 - (ii) Reducing these data to 4-hour rolling averages; and
 - (iii) Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature;
- (3) Report each instance in which you did not meet each emission limitation or operating limitation in Tables 2a

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and 2b. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE. [§63.6640(b)].

(4) For new stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. [§63.6640(d)]

(5) Submit reports according to the requirements in §63.6650.

(6) Keep records according to the requirements in §63.6655.

Parameter Monitored: TEMPERATURE
 Lower Permit Limit: 450 degrees Fahrenheit
 Upper Permit Limit: 1350 degrees Fahrenheit
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 4-HOUR ROLLING AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 11: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 40CFR 63.6600(b), Subpart ZZZZ

Item 11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40CFR 63 SUBPART ZZZZ - Table 2a

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FORMALDEHYDE (CH₂O) EMISSION STANDARD AND TESTING

- (1) The owner or operator of a new 2 stroke lean burn (2SLB) stationary RICE with a site rating more than 500 brake horsepower located at a major source of HAP emissions must either limit the concentration of formaldehyde or reduce CO emissions. [§63.6600(b) and Table 2a, Item 1]
- (2) If choosing to reduce formaldehyde emissions, the concentration of formaldehyde in the engine's exhaust must be reduced to 12 ppmvd at 15% oxygen based on the average of three 1-hour runs. [§63.6600(b) and Table 2a, Item 1]
- (3) Conduct an initial performance test within 180 days after start-up following the methods specified in Table 4, Item 3 and according to the provisions in §63.7(a)(2). [§63.6610(a) and Table 4, Item 3]
- (4) Conduct subsequent performance tests semiannually as specified in Table 3, Item 3. After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests. [§63.6615 and Table 3, Item 3]
- (5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load. [§63.6620(b)(3)]
- (6) Conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart. [§63.6620(d)]
- (7) Use Equation 1 of this section to determine compliance with the percent reduction requirement [§63.6620(e)(1)]
- (8) Normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂

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correction factor as described in paragraphs (e)(2)(i) through (iii) of this section. [§63.6620(e)(2)]

(9) During the initial performance test, you must establish each operating limitation as follows:[§63.6630(b) and Table 5, Item 9]

(i) The average formaldehyde concentration, corrected to 15 percent O₂, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and

(ii) You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and

(iii) You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

(10) Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645. [§63.6630(c)]

(11) Submit reports according to the requirements in §63.6650.

(12) Keep records according to the requirements in §63.6655.

Parameter Monitored: FORMALDEHYDE

Upper Permit Limit: 12 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: Table 4.3 of Subpart ZZZZ

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 12: Compliance Demonstration

Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6600(b), Subpart ZZZZ

Item 12.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

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Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40CFR 63 SUBPART ZZZZ - Table 2a
CARBON MONOXIDE (CO) EMISSION STANDARD AND TESTING

- (1) The owner or operator of a new 2 stroke lean burn (2SLB) stationary RICE with a site rating more than 500 brake horsepower located at a major source of HAP emissions must either reduce CO emissions or limit the concentration of formaldehyde. [§63.6600(b) and Table 2a, Item 1]
- (2) If choosing to reduce CO emissions, CO must be reduced by 58% or more based on the average of three 1-hour runs. [§63.6600(b) and Table 2a, Item 1]
- (3) Conduct an initial performance test within 180 days after start-up following the methods specified in Table 4, Item 1 and according to the provisions in §63.7(a)(2). [§63.6610(a) and Table 4, Item 1]
- (4) Conduct subsequent performance tests semiannually as specified in Table 3, Item 1. After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests. [§63.6615 and Table 3, Item 1]
- (5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load. [§63.6620(b)(3)]
- (6) Conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart. [§63.6620(d)]
- (7) Use Equation 1 of this section to determine compliance with the percent reduction requirement [§63.6620(e)(1)]
- (8) Normalize the CO, THC, or formaldehyde concentrations

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at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described in paragraphs (e)(2)(i) through (iii) of this section. [§63.6620(e)(2)]

(9) During the initial performance test, you must establish each operating limitation as follows:[§63.6630(b) and Table 5, Item 1]

(i) The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and

(ii) You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and

(iii) You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

(10) Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645. [§63.6630(c)]

(11) Submit reports according to the requirements in §63.6650.

(12) Keep records according to the requirements in §63.6655.

Parameter Monitored: CARBON MONOXIDE

Lower Permit Limit: 58 percent reduction by weight
(corrected to 7% O₂, dry basis)

Reference Test Method: See Table 4.1 of Subpart ZZZZ

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 13: Compliance Demonstration

Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6625(b), Subpart ZZZZ

Item 13.1:

The Compliance Demonstration activity will be performed for:

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Emission Unit: 1-RNGAS

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facilities required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of subpart ZZZZ must install, operate, and maintain each CPMS according to the requirements in paragraphs (1) through (6). For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in this paragraph are applicable September 6, 2011.

(1) The owner or operator must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (i) through (v) and in 40 CFR 63.8(d). As specified in 40 CFR 63.8(f)(4), the owner or operator may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in 40 CFR 6625(b)(1) through (5) in the site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR 63.8(c)(1)(ii) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR 63.10(c), (e)(1), and (e)(2)(i).

(2) The owner or operator must install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also 40 CFR 63.6635).

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(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) The owner or operator must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) The owner or operator must conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.

(7) Submit reports according to the requirements in §63.6650.

(8) Keep records according to the requirements in §63.6655.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 14: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement:40CFR 63.6625(h), Subpart ZZZZ

Item 14.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

START-UP 30 MINUTES

(1) For operation of a new stationary engine, the engine's time spent at idle must be minimized during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a,

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2a, 2c, and 2d to 40 CFR 63 Subpart ZZZZ apply.

(2) Submit reports according to the requirements in §63.6650.

(3) Keep records according to the requirements in §63.6655.

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 30 minutes

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 15: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 40CFR 63.6645, Subpart ZZZZ

Item 15.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§63.6645 What notifications must I submit and when?

(1) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions. [§63.6645(a)(3)]

(2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart. [§63.6645(c)]

(3) If you are required to conduct a performance test, you

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must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).
[§63.6645(g)]

(4) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). [§63.6645(h)]

(5) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration. [§63.6645(h)(1)]

(6) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).
[§63.6645(h)(2)]

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 16: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 40CFR 63.6650(b), Subpart ZZZZ

Item 16.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§63.6650 What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

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(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize

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emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

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(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 17: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable Federal Requirement: 40CFR 63.6655, Subpart ZZZZ

Item 17.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-RNGAS

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the

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air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records
required to comply with the request within sixty working
days of written notification by the Department.

Item C: **General Provisions for State Enforceable Permit Terms and
Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources
shall operate and maintain all emission units and any
required emission control devices in compliance with all
applicable Parts of this Chapter and existing laws, and
shall operate the facility in accordance with all
criteria, emission limits, terms, conditions, and
standards in this permit. Failure of such person to
properly operate and maintain the effectiveness of such
emission units and emission control devices may be
sufficient reason for the Department to revoke or deny a
permit.

The owner or operator of the permitted facility must
maintain all required records on-site for a period of five
years and make them available to representatives of the
Department upon request. Department representatives must
be granted access to any facility regulated by this
Subpart, during normal operating hours, for the purpose of
determining compliance with this and any other state and
federal air pollution control requirements, regulations or
law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 18: Contaminant List

Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement: ECL 19-0301

Item 18.1:

Emissions of the following contaminants are subject to contaminant specific requirements in
this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

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CAS No: 0NY100-00-0

Name: TOTAL HAP

Condition 19: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR 201-1.4

Item 19.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 20: Emission Unit Definition
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

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Item 20.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-RNGAS

Emission Unit Description:

Emission Unit 1-RNGAS includes the Renewable Natural Gas (RNG) process that will take the already collected and treated landfill gas and further filter, clean, and compress to natural gas standards, and transfer the gas into the natural gas pipeline for transmission off site.

The emission unit includes operation of the pressure swing adsorption (PSA) units, and natural gas fired compressor.

The natural gas fired compressor is the only new emission point. Exhaust from the PSA units will be directed to the existing flare and existing power plant. The RNG process will be located on skid-mounted equipment, outside of the existing LFGTE building (ENGBLDG).

Condition 21: Renewal deadlines for state facility permits
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 21.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 22: Compliance Demonstration
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 22.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
 NYS Dept. of Environmental Conservation
 Region 9
 270 Michigan Ave.
 Buffalo, NY 14203

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
The initial report is due 7/30/2021.
Subsequent reports are due every 6 calendar month(s).

Condition 23: Air pollution prohibited
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR 211.1

Item 23.1:
No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

****** Emission Unit Level ******

Condition 24: Emission Point Definition By Emission Unit
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 24.1:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-RNGAS

Emission Point: COMPR
Height (ft.): 20 Diameter (in.): 17
NYTMN (km.): 4480.387 NYTME (km.): 289.337

Condition 25: Process Definition By Emission Unit
Effective between the dates of 04/21/2021 and 04/20/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 25.1:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-RNGAS
Process: RNG Source Classification Code: 5-01-004-33
Process Description:
Process RNG includes removal of moisture from the collected landfill gas, compression through the natural gas fired compressor, then cleaning through a series of pressure swing adsorption (PSA) units. Once cleaned, the

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purified RNG will be again compressed by electric driven compressors and injected into the natural gas pipeline for transport off-site. Gaseous contaminants cleaned from the RNG in the PSA units (high concentration CO₂ and trace contaminants) is piped to one of the existing flares and/or engines for destruction by combining with natural gas (to raise the Btu content to a sufficient point to combust cleanly) then combustion in the flares and/or engines.

Emission Source/Control: COMPR - Combustion
Design Capacity: 600 horsepower (mechanical)

Emission Source/Control: PSA01 - Process

Emission Source/Control: PSA02 - Process

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