

Facility DEC ID: 1472203647

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 1-4722-03647/00008
Effective Date: 09/09/2021 Expiration Date: 09/08/2031

Permit Issued To: AMERICAN ORGANIC ENERGY LLC
100 URBAN AVE
WESTBURY, NY 11590

GREAT GARDENS LLC
100 URBAN AVE
WESTBURY, NY 11590

Contact: CHARLES VIGLIOTTI
AMERICAN ORGANIC ENERGY LLC
100 URBAN AVE
WESTBURY, NY 11590
(516) 334-6600

Facility: GREAT GARDENS LLC/ AMERICAN ORGANIC ENERGY LLC
445 HORSEBLOCK RD|SCTM# 200-846-3-3.1
YAPHANK, NY 11980

Contact: CHARLES VIGLIOTTI
AMERICAN ORGANIC ENERGY LLC
100 URBAN AVE
WESTBURY, NY 11590
(516) 334-6600

Description:

This is an Air State Facility permit renewal authorizing the construction and operation of a renewable energy (Anaerobic Digester) facility. The facility was previously issued a permit, but construction has not yet commenced. This permit renewal reflects the updated plans for the facility.

The renewable energy facility will convert raw food waste and grease trapping waste to pipeline quality renewable natural gas (RNG) that will be injected to the National Grid pipeline. Two (2) internal combustion engines will burn natural gas fuel to cogenerate 3,000 kilowatt (kW) of electricity in parallel with the grid. The engines will have both selective catalytic reduction (SCR) and oxidation catalysts. There will be one Thermal Oxidizer (5.4 MMBtu/hr) to incinerate waste (tail) gas as the control device for gas treatment equipment . There will also be two (2) flares, which are used as a control for the biogas when it cannot be beneficially upgraded to natural gas quality for pipeline injection or in the event of an overpressure event in the digesters relieving to

Facility DEC ID: 1472203647

these flares. Three (3) exempt Emergency Hot Water Boilers (4.2 MMBtu/hr each) will also be installed to meet the process heating requirements if the heat recovery on the engines (Combined heat and power- CHP) are not available to produce hot water. These boilers will be capable of burning both natural gas and biogas.

Annual total emissions of oxides of nitrogen (NOx), carbon monoxide (CO) and volatile organic compounds (VOCs) are capped below major facility thresholds.

The potential climate impacts of this project were evaluated in accordance with the requirements of the Climate Leadership and Community Protection Act (CLCPA). The potential to emit of greenhouse gases (GHGs) from the proposed facility is 59,371 tons per year of carbon dioxide equivalents (CO₂e). The facility will seek to reduce GHG emissions by reducing the occurrence of biogas flaring by ensuring that sufficient upgrading capacity is available at all times to beneficially upgrade the biogas. This effort will be supported by automated monitoring and control of all plant processes, implementation of manufacturer's recommended preventative maintenance, and using best practices for continuous improvement. Although the facility can reduce its potential emissions of GHGs further by shifting from 100% natural gas combustion driven CHPs to fuel cells or renewable generation sources, these options are not economically feasible at this time.

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: KEVIN A KISPERT
SUNY @ STONY BROOK
50 CIRCLE RD
STONY BROOK, NY 11790

Authorized Signature: _____ Date: ____ / ____ / ____

Facility DEC ID: 1472203647

Facility DEC ID: 1472203647

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.

Facility DEC ID: 1472203647

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- 6 1 Facility Inspection by the Department
- 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 1 HEADQUARTERS

Facility DEC ID: 1472203647

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.

Facility DEC ID: 1472203647

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 1 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 1 Headquarters
Division of Environmental Permits
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409
(631) 444-0365

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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Facility: GREAT GARDENS LLC/ AMERICAN ORGANIC ENERGY LLC
445 HORSEBLOCK RD|SCTM# 200-846-3-3.1
YAPHANK, NY 11980

Authorized Activity By Standard Industrial Classification Code:
4925 - GAS PRODUCTION/DISTRIBUTION
4959 - SANITARY SERVICES, NEC
9511 - AIR, WATER & SOLID WASTE MANAGEMENT

Permit Effective Date: 09/09/2021

Permit Expiration Date: 09/08/2031

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 6 1 6 NYCRR 200.7: Maintenance of Equipment
- 6 2 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 6 3 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 7 4 6 NYCRR 201-7.1: Facility Permissible Emissions
- 7 *5 6 NYCRR 201-7.1: Capping Monitoring Condition
- 9 *6 6 NYCRR 201-7.1: Capping Monitoring Condition
- 11 *7 6 NYCRR 201-7.1: Capping Monitoring Condition
- 14 8 6 NYCRR 202-1.2: Notification
- 14 9 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 14 10 6 NYCRR 211.2: Visible Emissions Limited
- 14 11 6 NYCRR 227-1.4 (a): Compliance Demonstration
- 15 12 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 15 13 40CFR 60, NSPS Subpart JJJ: Applicability

Emission Unit Level

EU=U-ADS01

- 16 14 6 NYCRR 200.7: Compliance Demonstration

EU=U-JN420

- 16 15 6 NYCRR 200.7: Compliance Demonstration
- 17 16 6 NYCRR 227-1.3 (c): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 20 17 ECL 19-0301: Contaminant List
- 21 18 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 21 19 6 NYCRR Subpart 201-5: Emission Unit Definition
- 22 20 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 23 21 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 23 22 6 NYCRR 211.1: Air pollution prohibited

Emission Unit Level

- 23 23 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 24 24 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=U-JN420

- 26 25 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 26 26 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 27 27 6 NYCRR 201-5.3 (c): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

FEDERALLY ENFORCEABLE CONDITIONS

Renewal 1/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,

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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)

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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: Maintenance of Equipment
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 200.7

Item 1.1:

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, required to operate such device effectively.

Condition 2: Exempt Sources - Proof of Eligibility
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 2.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 3: Trivial Sources - Proof of Eligibility
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 3.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

the department upon request.

Condition 4: Facility Permissible Emissions
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 4.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 000630-08-0 PTE: 190,000 pounds per year
Name: CARBON MONOXIDE

CAS No: 0NY210-00-0 PTE: 45,000 pounds per year
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0 PTE: 45,000 pounds per year
Name: VOC

Condition 5: Capping Monitoring Condition
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 201-7.1

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:

6 NYCRR Subpart 201-6
6 NYCRR Subpart 231-5

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

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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: 0NY998-00-0 VOC

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:

The facility VOC emissions will be calculated
 as:

$$N(67) + (H)(4) E+S(5.5) < 45,000 \text{ lb/yr of VOC,}$$

where

N is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the two IC Engines equipped with Oxidation Catalysts which control VOC emissions

67 is the VOC emission factor (lb/mmscf) for the burning of Natural Gas in the two IC Engines equipped with Oxidation Catalysts which control VOC emissions, based on manufacturer specified emission rate of 0.15 g/BHP-hr multiplied by a safety factor of 1.2 (0.18 g/BHP-hr), a brake specific fuel consumption of 6,109 BTU/BHP-hr and a higher heating value of 1,020 BTU/scf for natural gas

H is the 12-months rolling million standard cubic feet (mmscf) of Biogas produced by the anaerobic digesters

4 is the overall VOC emission factor (lb/mmscf [as Hexane]) which accounts for VOC emissions from the entire emission unit U-ADS01 and the burning of biogas in the three boilers, based on a concentration of 835 ppmv VOC from EPA AP 42 chpt. 2.4 (2008 DRAFT) Table 2.4-1 for LFG and a 98% VOC destruction efficiency for the control and combustion devices

E is the 12-months rolling million standard cubic feet

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

(mmscf) of Natural Gas burned in the three Boilers

S is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the Thermal oxidizer as supplemental fuel

5.5 is the VOC emission factor (lb/mmscf) for the burning of Natural Gas in the three Boilers and the burning of natural gas as supplemental fuel in the Thermal Oxidizer, based on EPA AP 42 CHPT 1, section 1.4, table 1.4-1

Data and calculations shall be maintained on site for a minimum of five years.

Parameter Monitored: VOC

Upper Permit Limit: 45,000 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 6: Capping Monitoring Condition
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 6.1:

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 201-6

Item 6.2:

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

Item 6.3:

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 6.4:

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

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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 6.5:

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 6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility CO emissions will be calculated as:

$$N(111) + (F + B)(186) + G(304) E(84) + X(38) < 190,000 \text{ lb/yr of CO, where}$$

N is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the two IC Engines equipped with Oxidation Catalysts which control CO emissions

111 is the CO emission factor (lb/mmscf) for the burning of Natural Gas in the two IC Engines equipped with Oxidation Catalysts which control CO emissions, based on manufacturer specified emission rate of 0.25 g/BHP-hr multiplied by a safety factor of 1.2 (0.30 g/BHP-hr), a brake specific fuel consumption of 6,109 BTU/BHP-hr and a higher heating value of 1,020 BTU/scf for natural gas

F is the 12-months rolling million standard cubic feet (mmscf) of Biogas burned in the two Flares

B is the 12-months rolling million standard cubic feet (mmscf) of Biogas burned in the three Boilers

186 is the CO emission factor (lb/mmscf) for the burning of Biogas in the two Flares and three boilers, based on EPA AP 42 CHPT 13 sect 13.5, table 13.5-2 and a heating value of 600 BTU/scf for Biogas

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

G is the 12-months rolling million standard cubic feet (mmscf) of off-spec RNG burned in the two Flares

304 is the CO emission factor (lb/million ft³) for the burning of off-spec RNG in the two Flares, based on EPA AP 42 CHPT 13 sect 13.5, table 13.5-2 and a heating value of 980 BTU/scf for off-spec RNG

E is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the three Boilers

84 is the CO emission factor (lb/mm scf) for the burning of Natural Gas in the three Boilers, based on EPA AP 42 CHPT 1, section 1.4, table 1.4-1

X is 12-months rolling million standard cubic feet (mmscf) of Tail Gas/Natural Gas Blend burned in the Thermal Oxidizer

38 is is the CO emission factor (lb/million ft³) for the burning of Tail Gas/Natural Gas Blend in the Thermal Oxidizer, based on EPA AP 42 CHPT 13 sect 13.5, table 13.5-1 and a heating value of 120 BTU/scf for the Tail Gas/Natural Gas Blend

Data and calculations shall be maintained on site for a minimum of five years.

Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 190,000 pounds per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 12 calendar month(s).

Condition 7: Capping Monitoring Condition
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 7.1:

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 201-6
- 6 NYCRR Subpart 227-2
- 6 NYCRR Subpart 231-5

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Item 7.2:

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

Item 7.3:

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 7.4:

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 7.5:

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 7.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 7.7:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:
The facility NOx emissions will be calculated as:
$$N(56) + F(41) + G(67) + B(59) + E(100) + X(18) < 45,000$$
lb/yr of NOx, where

N is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the two IC Engines equipped with SCR for NOx control

56 is the NOx emission factor (lb/mmscf) for the burning of Natural Gas in the two IC Engines equipped with SCR for NOx control, based on manufacturer specified emission rate of 0.12 g/BHP-hr multiplied by a safety factor of 1.25

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

(0.15 g/BHP-hr), a brake specific fuel consumption of 6,109 BTU/BHP-hr and a higher heating value of 1,020 BTU/scf for natural gas

F is the 12-months rolling million standard cubic feet (mmscf) of Biogas burned in the two Flares

41 is the NO_x emission factor (lb/mmscf) for the burning of Biogas in the two Flares, based on EPA AP 42 CHPT 13 sect 13.5, table 13.5-1 and a higher heating value of 600 BTU/scf for Biogas

G is the 12-months rolling million standard cubic feet (mmscf) of off-spec RNG burned in the two Flares

67 is the NO_x emission factor (lb/mmscf) for the burning of off-spec RNG in the two Flares, based on EPA AP 42 CHPT 13 sect 13.5, table 13.5-1 and a higher heating value of 980 BTU/scf for off-spec RNG

E is the 12-months rolling million standard cubic feet (mmscf) of Natural Gas burned in the three Boilers

100 is the NO_x emission factor (lb/mmscf) for the burning of Natural Gas in the three Boilers, based on EPA AP 42 CHPT 1, section 1.4, table 1.4-1

B is the 12-months rolling million standard cubic feet (mmscf) of Biogas burned in the three Boilers

59 is the NO_x emission factor (lb/mmscf) for the burning of Biogas in the three Boilers, derived from EPA AP 42 CHPT 1, section 1.4, table 1.4-1 and applied to Biogas with a heating value of 600 BTU/scf

X is 12-months rolling million standard cubic feet (mmscf) of Tail Gas/Natural Gas Blend burned in the Thermal Oxidizer

18 is the NO_x emission factor (lb/mmscf) for the burning of Tail Gas/Natural Gas Blend in the Thermal Oxidizer, based on based on manufacturer emission rate of 0.15 lb/MMBtu and a higher heating value of 120 BTU/scf for the Tail Gas/Natural Gas Blend

Data and calculations shall be maintained on site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 45,000 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 12 calendar month(s).

Condition 8: Notification
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 8.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 9: Acceptable procedures - Stack test report submittal
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 9.1:

Emission test reports must be submitted in triplicate to the commissioner within 60 days after the completion of the tests, unless additional time is requested in writing.

Condition 10: Visible Emissions Limited
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 211.2

Item 10.1:

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.

Condition 11: Compliance Demonstration
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 227-1.4 (a)

Item 11.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

- Emission Unit: U-JN420 Emission Point: 01CHP
- Emission Unit: U-JN420 Emission Point: 02CHP

Item 11.2:

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a stationary combustion installation subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60, Appendix A, Method 9

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 12: EPA Region 2 address.

Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 12.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 13: Applicability

Effective between the dates of 09/09/2021 and 09/08/2031

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Applicable Federal Requirement:40CFR 60, NSPS Subpart JJJJ

Item 13.1:

Facilities that have stationary spark ignition internal combustion engines must comply with applicable portions of 40 CFR 60 subpart JJJJ.

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

Condition 14: Compliance Demonstration

Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 200.7

Item 14.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ADS01

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The flares must be operated whenever any gases are sent to them. All tail gas from the gas upgrade unit must be sent to the thermal oxidizer, which must be operating. The owner or operator of the facility must monitor and maintain the control equipment according to manufacturer's specific instructions.

The owner or operator of the facility must keep records that demonstrate compliance with this requirement. The records shall be maintained on site for a minimum of five years from the date of each record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 15: Compliance Demonstration

Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 200.7

Item 15.1:

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

The Compliance Demonstration activity will be performed for:

Emission Unit: U-JN420

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY998-00-0	VOC
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The SCR and oxidation catalysts must be operated whenever the engines are operating. The owner or operator of the facility must monitor and maintain the control equipment according to manufacturer's specific instructions.

The owner or operator of the facility must keep records that demonstrate compliance with this requirement. The records shall be maintained on site for a minimum of five years from the date of each record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 16: Compliance Demonstration
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable Federal Requirement:6 NYCRR 227-1.3 (c)

Item 16.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-JN420

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation must perform an annual tune-up on each emission source subject to 6 NCYRR Subpart 227-1. Records of the tune-up shall be maintained at the facility or at a Department approved alternative location for a minimum of five years. The records shall, at a minimum, include the

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

date the tune-up(s) occurred and the details of the tune-up procedures for each emission source.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 12 calendar month(s).

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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 17: Contaminant List

Effective between the dates of 09/09/2021 and 09/08/2031

Applicable State Requirement:ECL 19-0301

Item 17.1:

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

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

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Condition 18: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable State Requirement:6 NYCRR 201-1.4

Item 18.1:

(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 19: Emission Unit Definition
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 19.1:

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

Emission Unit: U-ADS01

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Emission Unit Description:

This emission unit includes four (4) anaerobic digestion tanks for treatment of source-separated organic waste that produces digester gas, also known as biogas; equipment related to the treatment and handling of the biogas; two (2) flares (72 MMBTU/h), which are used as a control for the biogas when it cannot be beneficially upgraded to natural gas quality for pipeline injection or in the event of an overpressure event in the digesters relieving to these flares; and a thermal oxidizer for the destruction of tail gas.

The biogas drying, separation and compression equipment is collectively referred to as the biogas upgrading equipment. This biogas treatment process separates the methane from the other constituents to produce renewable natural gas (RNG) of similar quality to pipeline natural gas. The RNG is odorized and injected into the utility pipeline. The tail gas stream from the gas upgrade equipment contains methane at less than 7% concentration as well as trace components, with the balance as carbon dioxide. The tail gas emissions are controlled by a thermal oxidizer with a capacity of 42,000 SCFH of tail gas. The 42,000 SCFH will be combined with 2,700 SCFH of natural gas in the thermal oxidizer. The combined gas stream will have a higher heating value of 120 BTU/SCF. The thermal oxidizer will combust 5.36 MMBTU/h.

The two flares and the thermal oxidizer are installed outdoors on an equipment pad/foundation.

Item 19.2:

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

Emission Unit: U-JN420

Emission Unit Description:

This emission unit consists of two (2) internal combustion engines that burn natural gas fuel for Combined Heat and Power (CHP). Each lean-burn engine will operate at a maximum 2,063 brake horsepower (bhp) or 1.5 megawatt (MW) and will have both SCR and Oxidation Catalyst at the exhaust. Each engine will have its own stack. Each CHP is installed in a separate equipment container/building.

Building(s): CHP-1
CHP-2

**Condition 20: Renewal deadlines for state facility permits
Effective between the dates of 09/09/2021 and 09/08/2031**

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

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Item 20.1:

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 21: Compliance Demonstration
Effective between the dates of 09/09/2021 and 09/08/2031

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

Item 21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 21.2:

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 1
SUNY at Stony Brook
Building 40
Stony Brook, NY 11790-2356

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 22: Air pollution prohibited
Effective between the dates of 09/09/2021 and 09/08/2031

Applicable State Requirement:6 NYCRR 211.1

Item 22.1:

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 23: Emission Point Definition By Emission Unit
Effective between the dates of 09/09/2021 and 09/08/2031

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 23.1:

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

Emission Unit: U-ADS01

Emission Point: 01FLA

Height (ft.): 41 Diameter (in.): 123
 NYTMN (km.): 4518.911 NYTME (km.): 675.658

Emission Point: 01TOX

Height (ft.): 31 Diameter (in.): 44
 NYTMN (km.): 4518.911 NYTME (km.): 675.665

Emission Point: 02FLA

Height (ft.): 41 Diameter (in.): 123
 NYTMN (km.): 4518.919 NYTME (km.): 675.658

Item 23.2:

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

Emission Unit: U-JN420

Emission Point: 01CHP

Height (ft.): 33 Diameter (in.): 20
 NYTMN (km.): 4518.949 NYTME (km.): 675.665 Building: CHP-1

Emission Point: 02CHP

Height (ft.): 33 Diameter (in.): 20
 NYTMN (km.): 4518.932 NYTME (km.): 675.665 Building: CHP-2

**Condition 24: Process Definition By Emission Unit
 Effective between the dates of 09/09/2021 and 09/08/2031**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 24.1:

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

Emission Unit: U-ADS01

Process: P02 Source Classification Code: 5-06-820-25

Process Description:

Source separated organic waste is anaerobically digested in closed tanks. This produces biogas. The biogas is upgraded to natural gas. The tail gas from the biogas upgrading equipment is combined with natural gas and the combustible gases are burned in the thermal oxidizer. Biogas is flared when it was not able be beneficially upgraded by the biogas upgrading equipment or when there is overpressure in the digesters.

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Emission Source/Control: SC351 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SC352 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Condition 25: Compliance Demonstration
Effective between the dates of 09/09/2021 and 09/08/2031

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

Item 25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-JN420

Regulated Contaminant(s):
 CAS No: 0NY998-00-0 VOC

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Each engine is required to meet a VOC emission limit of 0.18 g/BHP-Hr, which reflects the emission factor used in capping calculations. For each engine, the facility must conduct an initial stack test and conduct subsequent stack testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance (stack testing schedule as required by 40 CFR 60.4243 (b) (2) (ii)).

The facility must maintain the approved stack test results on site. These results must be maintained until the next stack test results have been approved by the Department.

Parameter Monitored: VOC

Upper Permit Limit: 0.18 grams per brake horsepower-hour

Reference Test Method: Method 25A and/or Method 18

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 26: Compliance Demonstration
Effective between the dates of 09/09/2021 and 09/08/2031

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

Applicable State Requirement:6 NYCRR 201-5.3 (c)**Item 26.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-JN420

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Each engine is required to meet a NO_x emission limit of 0.15 g/BHP-Hr, which reflects the emission factor used in capping calculations. For each engine, the facility must conduct an initial stack test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance (stack testing schedule as required by 40 CFR 60.4243 (b) (2) (ii)). The facility may use the above-referenced stack test (for each engine) provided all of the requirements in 6 NYCRR 222.5 are met.

The facility must maintain the approved stack test results on site. These results must be maintained until the next stack test results have been approved by the Department.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.15 grams per brake horsepower-hour

Reference Test Method: Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 27: Compliance Demonstration**Effective between the dates of 09/09/2021 and 09/08/2031****Applicable State Requirement:6 NYCRR 201-5.3 (c)****Item 27.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-JN420

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647

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

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Each engine is required to meet a CO emission limit of 0.30 g/BHP-Hr, which reflects the emission factor used in capping calculations. For each engine, the facility must conduct an initial stack test and conduct subsequent stack testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance (stack testing schedule as required by 40 CFR 60.4243 (b) (2) (ii)).

The facility must maintain the approved stack test results on site. These results must be maintained until the next stack test results have been approved by the Department.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 0.30 grams per brake horsepower-hour

Reference Test Method: Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Permit ID: 1-4722-03647/00008

Facility DEC ID: 1472203647