



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: December 9, 2025

Effective Date: December 9, 2025

Expiration Date: May 31, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 01-03043A

Federal Tax Id - Plant Code: 88-2720400-2

Owner Information

Name: DIVERT PA DEV CO LLC
Mailing Address: 23 BRADFORD ST
CONCORD, MA 01742-2971

Plant Information

Plant: DIVERT PA DEV CO LLC/HANOVER
Location: 01 Adams County 01910 Conewago Township
SIC Code: 4959 Trans. & Utilities - Sanitary Services, Nec

Responsible Official

Name: CRAIG DAVIS
Title: VP DEVELOPMENT
Phone: (513) 341 - 6854 Email: cdavis@divertinc.com

Plan Approval Contact Person

Name: TASSIA STEIDLEY
Title: ENVIRONMENTAL ENGR SPEC
Phone: (480) 528 - 0421 Email: tsteidley@divertinc.com

[Signature] _____
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



Plan Approval Description

This plan approval authorizes the construction of a food recovery and biogas generation facility that includes two (2) anaerobic digesters that are heated by two (2) Lochinvar 2.0 MMBtu/hr natural gas boilers.

Raw biogas from the digesters is upgraded to renewable natural gas by an H₂S polishing unit, a dewatering process and a pressure swing gas adsorption process.

In the event that the gas upgrade process is not operational, or must vent due to excess pressure, or the product is off-spec, the biogas is to be sent through a John Zink ZTOF 33.6 MMBtu/hr enclosed combustion flare as control.



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Note: These same sub-sections are repeated for each source!

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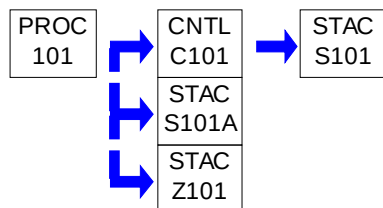
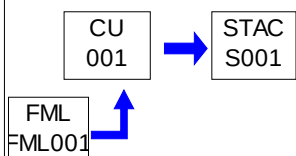
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
001	TWO (2) LOCHINVAR BOILERS	4.000 MMBTU/HR	
		1.930 MCF/HR	Natural Gas
101	RNG PRODUCTION	33.600 MMBTU/HR	
C101	ENCLOSED FLARE	1.000 CF/HR	RNG/RAW BIOGAS
FML001	NATURAL GAS		
S001	TWO (2) LOCHINVAR BOILER STACKS		
S101	ENCLOSED FLARE STACK		
S101A	TAIL GAS EXHAUST STACK		
Z101	RNG PRODUCTION FUGITIVE EMISSIONS		

PERMIT MAPS

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

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(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall not allow the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered emissions from use of roads or streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
 - (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

The permittee shall not allow fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Section C, Condition #001, if such emissions are visible at the point the emissions pass the person's property.

003 [25 Pa. Code §123.31]**Limitations**

The permittee may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the permittee's property.

004 [25 Pa. Code §123.42]**Exceptions**

The limitations on visible emissions shall not apply in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing opacity of visible emissions;
- (3) When the emission results from sources specified in Section C, Condition #001.

005 [25 Pa. Code §129.14]**Open burning operations**

(a) The permittee shall not allow the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person of whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.

**SECTION C. Site Level Plan Approval Requirements**

(4) The emissions cause damage to vegetation or property.

(5) The emissions are or may be deleterious to human or animal health.

(b) The requirements of subsection (a) do not apply where the open burning operations result from:

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(2) A fire set for the purposes of instructing personnel in fire fighting, when approved by the Department.

(3) A fire set for the prevention and control of disease or pests, when approved by the Department.

(4) A fire set solely for recreational or ceremonial purposes.

(5) A fire set solely for cooking food.

(c) This permit condition does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act (SWMA), contained at 35 P.S. Section 6018.610(3), or any other provision of the SWMA.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Department reserves the right to require exhaust stack testing of the sources referenced in this permit to measure emissions for purposes including verification of permit condition compliance and estimation of annual air emissions.

007 [25 Pa. Code §139.1]**Sampling facilities.**

Upon request from the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the timeperiod in which the facilities shall be provided as well as the specifications for such facilities.

008 [25 Pa. Code §139.11]**General requirements.**

(1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:

(i) A thorough source description, including a description of any air cleaning devices and the flue.

(ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.

(iii) The location of the sampling ports.

(iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.

(v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(vi) Laboratory procedures and results.

**SECTION C. Site Level Plan Approval Requirements**

(vii) Calculated results.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements (e.g. Continuous Opacity Monitor).

(2) Observers, trained and certified in EPA Method 9, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain records of the annual usage of each fuel consumed at the entire facility.

The permittee shall maintain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a.) The permittee shall submit semiannual reports to the Department regarding the project that is the subject of this plan approval. The reports shall be due on January 31 and July 31 of each year. The permittee shall continue submitting these reports until either:

- 1.) the first plan approval extension application for the project has been submitted, or
- 2.) the permit administrative amendment application has been submitted for the project, or
- 3.) an operating permit initial or renewal application addressing the inclusion of this plan approval, has been submitted for the facility.

b.) The semiannual reports shall contain the following:

- 1.) a brief summary of the status of the project, including any key construction milestones during the relevant semiannual period, and
- 2.) a statement of whether the equipment that is the subject of the plan approval has begun operating for any purpose, and what was the date that such operation began.
- 3.) a statement of whether a plan approval extension is expected to be needed during the upcoming semiannual period, and if so, when the permittee anticipates submitting the application for such an extension.

c.) The semiannual reports shall be sent to: Air Quality Program Manager, Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110.

d.) Within 60 days of the Department's written request to do so, the permittee shall submit either:

- 1.) an initial state-only or Title V operating permit application for this facility, or

**SECTION C. Site Level Plan Approval Requirements**

2.) an application for administrative amendment to incorporate the provisions of this plan approval into an existing stateonly or Title V operating permit.

012 [25 Pa. Code §127.442]**Reporting requirements.**

The permittee shall report malfunctions which occur at the facility to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner that may result in an increase in air emissions above minor significance. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Malfunctions which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after discovery of the incident. Telephone reports can be made to the Air Quality Program at (717) 705-4702 during normal business hours, or to the Department's Emergency Hotline 866-825-0208 at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at <https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx>.

(1) The notice shall describe the:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions; and
- (v) estimated rate of emissions.

(2) The owner or operator shall notify the Department immediately when corrective measures have been accomplished.

(3) The permittee shall submit a written report of instances of such malfunctions to the department, in writing, within three (3) days of the of the telephone report.

(4) The owner or operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

(b) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of (a) above, shall be reported to the Department, in writing, within five (5) days of discovery of the malfunction.

(c) Unless otherwise approved by DEP, all malfunctions shall be reported through the Department's Greenport PUP system available through: <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>

VI. WORK PRACTICE REQUIREMENTS.**# 013 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(3) Paving and maintenance of roadways.

**SECTION C. Site Level Plan Approval Requirements**

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall notify the person noted below when the source(s) and control device(s) is/are operating as designed so the source(s) and control device(s) may be inspected while in operation for the inclusion in or issuance of an Operating Permit.

Linda Piscioneri
Southcentral Regional Office
Air Quality Program
909 Elmerton Avenue
Harrisburg, Pa 17110
717-705-4861

015 [25 Pa. Code §127.444]**Compliance requirements.**

The permittee shall operate and maintain the emission sources and air cleaning devices referenced in this permit in accordance with the manufacturer's general recommendations and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 001

Source Name: TWO (2) LOCHINVAR BOILERS

Source Capacity/Throughput:

4.000 MMBTU/HR

1.930 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.11]

Combustion units

No person may permit the emission into the outdoor atmosphere of Particulate Matter from either of the above boilers in excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11(a)(1).

002 [25 Pa. Code §123.22]

Combustion units

No person shall permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from either of the above boilers in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the boilers shall be fueled exclusively by natural gas.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the permittee shall operate and maintain the boilers and control devices in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, each of the boilers shall be furnished with a low NOx burner.

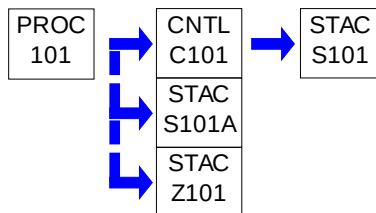
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 101

Source Name: RNG PRODUCTION

Source Capacity/Throughput:

33.600 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from Source 101 shall not exceed 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee may not permit the emission into the outdoor atmosphere of sulfur dioxide from Source 101 in a manner that the concentration of sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the permittee shall maintain the biogas upgrade process so that the concentration of hydrogen sulfide in the PSA tail gas is less than or equal to 10 ppmv.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the concentration of hydrogen sulfide in the digester gas shall not exceed 100 ppmv determined by the samples taken pursuant to Condition #005.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the permittee shall maintain the biogas upgrade process so that total VOC emissions from the PSA tail gas are less than or equal to 10 tons per year on a rolling monthly basis.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the permittee shall conduct gas sampling a minimum of once per week, to monitor the concentration of hydrogen sulfide and methane in the digester gas. If after a reasonable period of time, the permittee concludes that the weekly measurements are falling within a stable range, the permittee may petition the Department for a reduction in sampling frequency.

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

**SECTION D. Source Level Plan Approval Requirements**

Pursuant to the BAT provisions of 25 Pa. Code §127.1:

(a) The concentration of methane and hydrogen sulfide in the PSA product gas shall be monitored at least daily. If after a reasonable period of time, the permittee concludes that the daily measurements are falling within a stable range, the permittee may petition the Department for a reduction in sampling frequency.

(b) Hydrogen sulfide concentration measurements made after the H₂S polishing unit and before the PSA may be used in fulfillment of this requirement.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the PSA tail gas stream shall be sampled for hydrogen sulfide and VOC concentration each month when the PSA is operating under normal conditions.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Conditions #006, #007 & #008, monitoring requirements may be met with a flow meter and installed or handheld gas meters, calibrated per manufacturer's specifications, and capable of recording timestamped test results.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain the following records for the RNG production process:

- (1) Digester gas sampling results per Condition #006.
- (2) Sampling results of methane and hydrogen sulfide concentration of the PSA product gas per Condition #007.
- (3) Sampling results of hydrogen sulfide and VOC concentration of the PSA tail gas stream per Condition #008.
- (4) Total VOC emissions from the PSA tail gas, in tons, computed monthly and summed on a 12-month rolling basis.
- (5) For each instance of pressure relief venting of biogas from the digesters:
 - (i) The date and duration of the event
 - (ii) The name of the company representative logging the event
- (6) Logs detailing flaring operation during each month:
 - (i) The date, gas flow rate, and duration of each instance of flaring
 - (ii) The total volume of each type of gas stream being flared during the month
 - (iii) The name of the company representative in charge of flare operation
- (7) Detailed records of all maintenance performed on Source 101 equipment.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the permittee shall operate and maintain all RNG production equipment in accordance with the specifications of the equipment manufacturers and good air pollution control practices.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the anaerobic digesters must be equipped with a system to control pressure in the membrane tanks by directing excess biogas to the C101 flare.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the anaerobic digesters must be equipped with pressure relief valves set to an appropriate pressure determined in consultation with the equipment manufacturer to vent excess pressure. A copy of this determination shall be kept on file and submitted to DEP.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, any raw biogas not delivered to the biogas upgrade process, any off-specification RNG produced by the biogas upgrade process, and any RNG not injected into a natural gas utility pipeline shall be destroyed by the C101 flare.

VII. ADDITIONAL REQUIREMENTS.**# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Within 30 days of start-up of RNG production, the permittee shall submit an Operation and Maintenance (O&M) plan to the Department. The plans shall be in a format acceptable to the Department and shall specify the procedures used to maintain the digesters and membrane tank systems, and the biogas upgrade process.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: C101

Source Name: ENCLOSED FLARE

Source Capacity/Throughput:

1.000 CF/HR

RNG/RAW BIOGAS

I. RESTRICTIONS.**Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from the C101 flare shall not exceed 0.04 grain per dry standard cubic foot of effluent gas.

002 [25 Pa. Code §123.21]

General

The permittee may not permit the emission into the outdoor atmosphere of sulfur dioxide from the C101 flare in a manner that the concentration of sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare shall be operated with no visible emissions, except for periods not to exceed a total of five (5) minutes during any two consecutive hours.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare shall be designed to achieve and maintain the less stringent of:

(a) a destruction/removal efficiency of at least 98%, by weight, of non-methane organic compounds (NMOC); or

(b) an outlet NMOC concentration of less than 20 parts per million, by volume, dry basis, as hexane, corrected to 3% oxygen.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, auxiliary fuel shall be added to any waste gas input to the C101 flare as needed to maintain the minimum operating temperature per Condition #010 and so that the minimum rate of combustion in the flare is not less than 6.2 million Btu per hour.

Throughput Restriction(s).

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the flow rate of any waste gas input to the C101 flare (raw biogas, RNG, or a mixture of both) shall be limited so that the maximum rate of combustion in the flare is not greater than 33.6 million Btu per hour.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) Unless otherwise approved in writing by DEP, the permittee shall do the following:

(1) For the initial performance test of Control ID C101, submit to DEP a test protocol for review and approval within 180 days of issuance of this permit, and do not conduct the test that is the subject of the protocol until the protocol has been approved by DEP.

(2) If DEP finds deficiencies in the protocol, the permittee shall provide a response to DEP addressing the deficiencies within 30 days of being notified of the deficiencies.

(3) Complete the performance test within 120 days of DEP's approval of the test protocol, or within 120 days of startup of

**SECTION D. Source Level Plan Approval Requirements**

the affected equipment, whichever is later.

(b) Pursuant to 25 Pa. Code §139.3, at least 15 calendar days prior to commencing an emissions testing program, notification as to the date and time of testing shall be given to the Southcentral Regional Office. Notification shall also be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code §139.53(a)(3), within 15 calendar days after completion of the on-site testing portion of an emissions test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Bureau of Air Quality's Division of Source Testing and Monitoring and the Southcentral Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 25 Pa. Code §139.3, a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emissions test program.

(e) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emissions results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable plan approval/operating permit conditions. The summary results will include, at a minimum, the following information:

(1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(2) Plan approval/operating permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable plan approval/operating permit condition.

(4) Statement of compliance or non-compliance with each applicable plan approval/operating permit condition.

(f) Pursuant to 25 Pa. Code §139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(h) Pursuant to 25 Pa. Code §§139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal cannot be accomplished, one digital copy of each submittal shall be made to each of the following:

Regional Office:

Digital copy: RA-epscteststacktesting@pa.gov

Bureau of Air Quality:

Digital copy: RA-epstacktesting@pa.gov

(i) The permittee shall ensure all federal reporting requirements contained in any applicable federal subpart are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting state and federal requirements, the most stringent provision, term, condition, method or rule shall be used by default.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) An initial performance stack test shall be completed for Control C101.

(1) The test shall be performed while the source is operated at the maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) The initial performance test shall include 3 runs under each of the two following operating scenarios:

**SECTION D. Source Level Plan Approval Requirements**

- (i) flaring of unprocessed biogas from the digesters under normal operating conditions, and
- (ii) flaring of product gas from the gas upgrade system.

(3) The initial performance test shall be conducted within the temperature range of 1,500 deg F to 1,800 deg F.

(i) Flare combustion zone temperature during the performance test shall be monitored in accordance with Condition #009.

(4) The permittee may elect to conduct subsequent performance tests at lower temperatures if accounted for in the approved test protocol.

(b) The performance test shall be conducted for:

(1) The destruction/removal efficiency or the concentration in the outlet of total non-methane organic compounds, corrected to 3% oxygen on a dry basis;

(2) Nitrogen oxides (NO_x) measured as NO₂ and corrected to 3% oxygen on a dry basis;

(3) Carbon monoxide (CO) corrected to 3% oxygen on a dry basis; and

(4) Volatile organic compounds (VOCs) measured as hexane and corrected to 3% oxygen on a dry basis.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the flue gas temperature of the C101 enclosed flare shall be measured in the combustion zone as per manufacturer's specifications based on the flow into the flare. The temperature in the combustion zone shall be used to determine compliance with the minimum temperature requirement.

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare shall maintain, for each 3-hour period of operation based on rolling hourly data, an average combustion temperature of no more than 28°C (50.4°F) below the average combustion temperature during the most recent performance test in which compliance with the destruction/removal was demonstrated. If there has been no performance test, then a minimum temperature of 1,500°F (815.6°C) will be necessary.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the owner or operator shall install and maintain flow monitors to determine the total flow rate of waste gas to the C101 flare so that the maximum rate of combustion in the flare is not greater than 33.6 million Btu per hour.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the owner or operator shall install and maintain a device to continuously measure the methane content of the gas input to the C101 flare.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain the following records for the C101 flare:

(1) Combustion temperature of the C101 flare on a minimum of an hourly basis and as a three-hour average (based on rolling hourly data) any time the facility is in operation.

**SECTION D. Source Level Plan Approval Requirements**

- (2) Monthly and annual 12-month rolling total air emissions (e.g. CO, NO_x, SO₂, VOC, PM-10 and HAPs).
- (3) Monthly and annual 12-month rolling total hours of operation of the C101 flare.
- (4) Detailed records of all maintenance performed on the C101 flare.
- (b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the enclosed C101 flare shall have no visible flames during normal operations.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare shall be equipped with an automatic pilot ignition source using an auxiliary fuel (e.g. propane or natural gas).

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare shall be operated with a flame present at all times. The flare shall be equipped with an automatic shut-off mechanism designed to immediately stop the flow of gases when a flame-out occurs. During the restart or start-up, there shall be sufficient flow of auxiliary fuel to the burners such that unburned biogas is not emitted to the atmosphere.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the BAT provisions of 25 Pa. Code §127.1, the C101 flare may be operated at a lower temperature provided that the permittee has demonstrated, by a stack test that the flare will achieve the 98% destruction/removal efficiency or 20 ppm_{dv}, measured as hexane and corrected to 3% oxygen, at the lower temperature and complies with all the emission limits established in the plan approval.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.

Note: The capacities/throughputs listed in Section A are for informational use only and should not be construed as enforceable limitations. Facility capacity is limited by the maximum firing rate of the enclosed flare, 33.6 MMBtu/hr. Throughput limits for the flare depend on the heating value of the stream being flared and are not enumerated in Section A.

Source 101 consists of the following equipment:

- (2) Anaerobic Digesters
- (2) Membrane Bioreactor Tanks (MBR)
- Biogas and scour blowers
- H₂S Polisher
- Raw gas compressor with water removal
- Pressure Swing Adsorption System
- Product RNG compressor
- Utility Interconnect
- Vacuum Pumps

The following sources and activities are not subject to any specific work practice standards, testing, monitoring, recordkeeping or reporting requirements:

- Ammonia Stripping Columns
- Process Tanks
 - o FeCl₂ tank
 - o Equalization tank
 - o Centrate tank
 - o Permeate tank
 - o Liquid feedstock tank
- Hot Water Heaters
 - o One (1) gas-fired (0.5 MMBtu/hr)
 - o Two (2) electric
- Centrifuge
- Chiller
- Compressors
- Bin washing
- Depackaging process line



***** End of Report *****
