



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

PLAN APPROVAL

Issue Date: September 8, 2017 Effective Date: July 7, 2022
Revision Date: July 7, 2022 Expiration Date: July 7, 2023
Revision Type: Modification

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. 48-00027C](#)

Federal Tax Id - Plant Code: 22-3575227-1

Owner Information

Name: BETHLEHEM LDFL CO
Mailing Address: 2335 APPLEBUTTER RD
BETHLEHEM, PA 18015-6004

Plant Information

Plant: BETHLEHEM LD/BETHLEHEM FACILITY
Location: 48 Northampton County 48924 Lower Saucon Township
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: ASTOR LAWSON
Title: DISTRICT MANAGER
Phone: (610) 317 - 3200 Email: astor.lawson@wasteconnections.com

Plan Approval Contact Person

Name: DAVID PANNUCCI
Title: REGIONAL ENGINEER
Phone: (610) 317 - 3200 Email: david.pannucci@wasteconnections.com

[Signature] Mark J. Wejkszner
MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER





Plan Approval Description

This plan approval is for the installation of one (1) landfill gas fired (LFG), 750 scfm maximum rated capacity, open utility flare (C004) and one (1) LFG fired, 2,500 scfm maximum rated capacity, enclosed ground flare (C003, which was previously approved under Plan Approval 48-00027B but never installed) to provide additional LFG control capacity.



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

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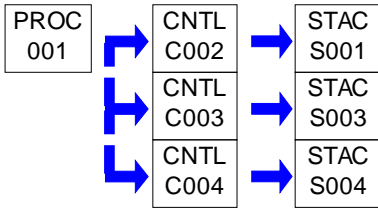
Section H. Miscellaneous



SECTION A. Plan Approval Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
001	LANDFILL OPERATIONS		
C002	LANDFILL GAS COLLECTION/ REPLACEMENT FLARE	300.000 MCF/HR	Landfill Gas
C003	ENCLOSED FLARE	150.000 MCF/HR	LANDFILL GAS
C004	UTILITY OPEN FLARE	45.000 MCF/HR	LANDFILL GAS
S001	ENCLOSED FLARE STACK		
S003	STACK - ENCLOSED FLARE		
S004	STACK - OPEN FLARE		

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 15 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(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.

**SECTION B. General Plan Approval Requirements**

(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(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 § 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.

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

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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The landfill is subject to Subpart XXX of the Standards of Performance for New Stationary Sources and 40 C.F.R. Part 63 Subpart AAAA of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), and shall comply with all applicable requirements of this Subpart. 40 CFR 60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The copies shall be forwarded to:

Associate Director
Office of Air Enforcement and Compliance Assistance 3AP20
1650 Arch Street
Philadelphia, PA 19103-2029

and

Air Quality Program Manager
Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

VI. WORK PRACTICE REQUIREMENTS.

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

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.

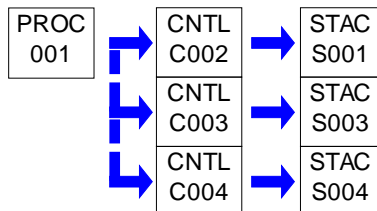
No compliance milestones exist.

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

Source ID: 001

Source Name: LANDFILL OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

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).

VI. WORK PRACTICE REQUIREMENTS.

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

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 D. Source Level Plan Approval Requirements**

Source ID: C002

Source Name: LANDFILL GAS COLLECTION/ REPLACEMENT FLARE

Source Capacity/Throughput: 300.000 MCF/HR Landfill Gas

I. RESTRICTIONS.

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

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).

VI. WORK PRACTICE REQUIREMENTS.

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

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 D. Source Level Plan Approval Requirements**

Source ID: C003

Source Name: ENCLOSED FLARE

Source Capacity/Throughput: 150.000 MCF/HR LANDFILL GAS

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the Best Available Control Technology provisions of 25 Pa. Code Section 127.12(a)(5) of Chapter 127 of the Rules and Regulations of the Department of Environmental Protection the following requirements are hereby established for flare:

- (1) Enclosed flare shall be designed and operated such that there are no visible flames during normal operations.
- (2) Enclosed flare shall be operated with no visible emissions, except for periods not to exceed a total of five minutes during any two consecutive hours.
- (3) Enclosed 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 1500°F (815.6°C) will be necessary.
- (4) Enclosed flare may be operated at a lower temperature provided that the company 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. If compliance has been demonstrated at the lower temperature, the owner or operator of the landfill is required to submit a plan approval application to make the lower operating temperature enforceable. Operation at the lower temperature can not occur until approved by the Department. Under no circumstance the flare(s) shall be operated with an operating temperature less than 1200°F.
- (5) The enclosed flare shall be equipped with an automatic pilot ignition source using an auxiliary fuel (e.g. propane or natural gas).
- (6) The enclosed flare shall be operated with a flame present at all times and 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 landfill gases are not emitted to the atmosphere.
- (7) The flue gas temperature of the enclosed flare shall be measured and recorded in the combustion zone as per the 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. The temperature monitoring device shall meet the 40 C.F.R. Section 60.756(b) requirements.

II. TESTING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Authority for this condition is derived from 40 CFR §60.764, 40 CFR §63.1935 and 25 Pa. Code §139.3]

1. Source tests shall be conducted on flare within 180 days after start-up to demonstrate: (a) either the destruction/removal efficiency (DRE) of at least 98% (by weight) for total nonmethane organic compounds (NMOCs) or a reduction in the NMOC concentration of the gas at the flare exit to 20 PPM or less as hexane by volume, dry basis at 3 % O₂.
2. At least sixty (60) calendar days prior to commencing an emission testing program required by this permit, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

3. At least fifteen (15) calendar days prior to commencing an emission testing program required by this permit, written notification of the date and time of testing shall be provided to the Department's appropriate Regional Office. Written notification shall also be sent to the Department's Bureau of Air Quality, Division of Source Testing and Monitoring. The notification shall not be made without prior receipt of a protocol acceptance letter from the Department. The Department is under no obligation to accept the results of any testing performed without adequate advance written notice to the Department of such testing. In addition, the emissions testing shall not commence prior to receipt of a protocol acceptance letter from the Department.

4. A complete test report shall be submitted to the Department no later than sixty (60) calendar days after completion of the on-site testing portion of an emission test program.

5. A complete test report shall include a summary of the emission 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 permit conditions. The summary results will include, at a minimum, the following information:

i. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings;

ii. Permit number(s) and condition(s) which are the basis for the evaluation;

iii. Summary of results with respect to each applicable permit condition; and

iv. Statement of compliance or non-compliance with each applicable permit condition.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Authority for this condition is derived from 40 CFR §60.766]

The flare shall be equipped with the following:

1. An inline flow meter to measure LFG usage by the flare
2. A thermocouple (or similar) to monitor combustion temperature and the presence of a flame during operation.
3. An automatic shut-off valve to stop LFG flow to the flare during shutdowns.

**SECTION D. Source Level Plan Approval Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this plan approval. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this plan approval. All measurements, records and other data required to be maintained by the company shall be retained for at least five years following the date on which such measurements, records or data are recorded.

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

[Authority for this condition is derived from 40 CFR §60.768, 40 CFR §63.1975]

The facility shall record the following for the enclosed flare:

1. LFG gas flow rate, in dscfm (minimum every 15 minutes).
2. Continuous monitoring of flare flame temperature
3. Continuous monitoring of flame presence.

Records shall be made available to Department personnel upon request and shall be maintained for a period of not less than five (5) years.

V. REPORTING REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

1. Any changes in the process or control equipment would be consider a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.

2. All flares are subject to Subpart XXX pursuant to 40 CFR §60.762(b)(2)(ii). Compliance with NSPS Subpart XXX shall be deemed compliance for purposes of compliance with 40 CFR Part 63, Subpart AAAA. 40 CFR §60.4 requires the submission of copies of all requests, report, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Associate Director
Office of Air Enforcement and Compliance, 3AP20
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19103

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

The facility shall comply with and report report the following:

1. The reporting requierments of 40 CFR §60.767 and 40 CFR §63.1981.
2. Exceedances of applicable parameters according to 40 CFR Subpart XXX §60.766 and 40 CFR Subpart AAAA §63.1961 (time and duration) and periods of shutdown.
3. Reporting shall be semi-annually per 40 CFR Subpart XXX § 60.767 and 40 CFR 63 Subpart AAAA § 63.1981.

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall comply with the work practice requirements of 40 CFR Subpart XXX §60.760-60.769 and 40 CFR

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

Subpart AAAA §63.1930-63.1990

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The enclosed flare incorporated in the landfill gas extraction, collection and control system associated with the solid waste disposal area shall meet the following criteria:

The owner/operator shall forecast, on an annual basis, the landfill gas generation and collection for the following year. If the forecast indicates that the existing flare is not sufficient to destroy the collected gases, additional approved flare(s) shall be installed and operated within three months of the forecasted date to ensure that the 100% of the collected gases are incinerated and/or destroyed by other methods approved by the Department.

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 D. Source Level Plan Approval Requirements**

Source ID: C004

Source Name: UTILITY OPEN FLARE

Source Capacity/Throughput:

45.000 MCF/HR

LANDFILL GAS

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the Best Available Control Technology provisions of 25 Pa. Code Section 127.12(a)(5) of Chapter 127 of the Rules and Regulations of the Department of Environmental Protection the following requirements are hereby established for this open flare:

- (1) The open flare will be limited to 500 dscfm, at 50% methane (net heat input not to exceed 15 million Btu per hour, calculated on the higher heating value of the landfill gas).
- (2) The total landfill gas combusted in open flare(s) at a facility should not exceed the greatest of either 500 dscfm, at 50% methane (net heat input not to exceed 15 million Btu per hour, calculated on the higher heating value of the landfill gas) or 20% of the total landfill gas flow, at 50% methane.
- (3) The DEP may approve the use of an open flare for flow rates higher than 500 dscfm, at 50% methane (net heat input can exceed 15 million Btu per hour, calculated on the higher heating value of the landfill gas), provided that the company provides a detailed technical and economic analysis of the use of an open flare versus an enclosed flare.
- (4) The total landfill gas combusted in open flare(s) at a facility should not exceed the minimum flow necessary to support combustion in the facility's enclosed flare, based on manufacturer specified turn-down ratio and Btu requirements, if the enclosed flare has unused capacity to support the landfill gas flow.
- (5) The open flare must be designed in accordance with the requirements of 40 C.F.R. Section 60.18 (40 C.F.R. Section 60.752(b) (2) (iii) (A)).
- (6) The landfill owner or operator will monitor, on a daily basis (except holidays and weekends), the flow in dry standard cubic feet or the temperature and flow rate of the landfill gas combusted in the open flare, unless 40 C.F.R. Part 60, Subpart WWW requires more frequent monitoring.
- (7) The landfill owner or operator will record, on a daily basis (except holidays and weekends), the amount of landfill gas combusted in the flare. All flares should be equipped with an automatic pilot ignition source.
- (8) The open flare should be operated with a flame present at all times.
- (9) The open flare should be equipped with an automatic shut-off mechanism designed to immediately stop the flow of gases when a flame-out occurs.
- (10) In addition to the requirements of 40 C.F.R. Section 60.18, open flares should be located in a manner to mitigate visual impacts by meeting any one of the following requirements:
 - a. Blocking the view of the flare with screening or plantings;
 - b. Erecting a berm or similar earthwork barrier (berm) approved by the Waste Management;
 - c. Locating the open flare behind an existing berm, or placing it in a hollow or other depression;
 - d. Placing the flare at least 900 feet from the nearest occupied dwelling for areas of the landfill first permitted after December 23, 2000, and at least 500 feet for areas of the landfill permitted after April 8, 1988, and before December 23, 2000, (an occupied dwelling that is owned by the landfill or any entity affiliated with the landfill is not deemed an occupied dwelling); or
 - e. Installing a shroud that has been designed to minimize visible flames during normal operation.

**SECTION D. Source Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

An initial performance test shall be conducted as per 40 CFR § 63.1959(b)(2)(iii)(A).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The flare shall be equipped with the following:

1. An inline flow meter to measure LFG usage by the flare
2. A thermocouple (or similar) to monitor combustion temperature and the presence of a flame during operation.
3. An automatic shut-off valve to stop LFG flow to the flare during shutdowns.
4. An automatic pilot ignition system

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.766]**Subpart XXX - Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014****Monitoring of operations.**

Each owner or operator seeking to comply with § 60.762(b)(2)(iii) using a non-enclosed flare must install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

- (1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
- (2) A device that records flow to the flare and bypass of the flare (if applicable). The owner or operator must:
 - (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes; and
 - (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

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

The facility shall comply with the record keeping requirements of 40 CFR Subpart XXX §60.768 and Per 40 CFR Subpart AAAAA §63.1975

The facility shall record the following for the open flare:

1. LFG gas flow rate, in dscfm (minimum every 15 minutes).
2. Flare flame temperature (minimum every 15 minutes)
2. Continuous monitoring of flame presence.

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

The facility shall report the following:

1. Exceedances of applicable parameters according to 40 CFR Subpart XXX §60.766 and 40 CFR Subpart AAAAA §63.1961 (time and duration) and periods of shutdown.

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

2. Reporting shall be semi-annually per 40 CFR Subpart XXX §60.767 and 40 CFR 63 Subpart AAAA § 63.1981.

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The open flare shall be designed and operated in accordance with 40 CFR 63.1959(b)(2)(iii)(A)

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For temporary control of landfill gas flows above 500 dscfm, and prior to installation and operation of enclosed flare (C003), the open flare may be operated at a flow rate up to 750 dscfm, at 50% methane. The dates and times of flows above 500 dscfm shall be identified. The temporary approval to operate the flare above 500 dscfm shall end upon enclosed flare (C003) completion of shakedown, or a period not to exceed the expiration of this plan approval, whichever is sooner.



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.



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