

**October 2015
Project No. 15-030**

REGULATION 30 PERMIT RENEWAL APPLICATION

**PERMIT NUMBER R30-MWSLGP-2011-
07900103**

**DISPOSAL SERVICES, INC
HURRICANE, WEST VIRGINIA**

PREPARED BY:

**MSES Consultants, Inc.
P.O. Drawer 190
Clarksburg, West Virginia 26302-0190
(304) 624-9700**

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL
PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE

Charleston, WV 25304

Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): Disposal Service, Inc.		2. Facility Name or Location: Hurricane, WV	
3. DAQ Plant ID No.: 0 7 9 — 0 0 1 0 3		4. Federal Employer ID No. (FEIN): 5 5 0 6 1 8 4 7 9	
5. Permit Application Type: <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application When did operations commence? 1980s What is the expiration date of the existing permit? 04/05/2016			
6. Type of Business Entity: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Governmental Agency <input type="checkbox"/> Limited Partnership <input type="checkbox"/> LLC		7. Is the Applicant the: <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____	
8. Number of onsite employees: 6			
9. Governmental Code: <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> District government owned and operated; 5			
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.			

11. Mailing Address**Street or P.O. Box:** P.O. Box 448**City:** Hurricane**State:** WV**Zip:** 25526-**Telephone Number:** (304) 562-3262**Fax Number:** (304)**12. Facility Location****Street:** 1100 State Route 34 South**City:** Hurricane**County:** Putnam**UTM Easting:** 410.86 km**UTM Northing:** 4,250.24 km**Zone:** ☒ 17 or ☐ 18

Directions: The facility is located on the right hand side of State Route 34 approximately ½ mile south of the intersection of State Route 34 and U.S. Route 60 near Hurricane in Putnam County.

Portable Source? ☐ Yes ☒ No**Is facility located within a nonattainment area?** ☐ Yes ☒ No**If yes, for what air pollutants?****Is facility located within 50 miles of another state?** ☒ Yes ☐ No**If yes, name the affected state(s).**
Kentucky, Ohio**Is facility located within 100 km of a Class I Area¹?** ☐ Yes ☒ No**If yes, name the area(s).****If no, do emissions impact a Class I Area¹?** ☐ Yes ☒ No

¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.

13. Contact Information		
Responsible Official: Doug Hall		Title: Senior District Manager
Street or P.O. Box: P.O. Box 4514		
City: Charleston	State: WV	Zip: 25364-
Telephone Number: (304) 925-1192	Fax Number: (304)	
E-mail address: dhall4@wm.com		
Environmental Contact: Craig Arnold		Title: Mgr. Environmental Protection
Street or P.O. Box: 7 Spring Street		
City: Charleston	State: WV	Zip: 25302-
Telephone Number: (304) 452-0008	Fax Number: (304)	
E-mail address: carnold@wm.com		
Application Preparer: Lori Steele		Title: Senior Environmental Scientist
Company: MSES Consultants, Inc.		
Street or P.O. Box: 609 West Main Street		
City: Clarksburg	State: WV	Zip: 26301-
Telephone Number: (304) 624-9700	Fax Number: (304) 622-0981	
E-mail address: lsteele@msesinc.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Sanitary Landfill	Waste disposal	562212	4953

Provide a general description of operations.

Disposal Service, Inc. (DSI) sanitary landfill is comprised of approximately 335.3 acres which includes two disposal areas (covering 84.7 acres) and support facilities. The disposal areas are commonly referred to as Phase I and Phase II. Phase I has a design capacity of 4,618,263 Mg on 44.5 acres for disposal operations. A Phase II disposal area (future) is 40.2 acres with a design capacity of 4,618,574 Mg. The landfill has the potential to receive approximately 500 tons of waste per day. Waste is brought to the landfill by truck and disposed of. The waste is spread and compacted with soil placed over the active area each day for cover. The landfill also has 20 vent flares for odor control, a 10,000 gallon above ground tank for diesel fuel, and a leachate storage pond.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqs.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.</p> <p>40CFR60.757(a)(3). The design capacity of this facility is greater than 2.5 million megagrams and 2.5 million cubic meters. Therefore, amended design capacity reports are not required.</p> <p>40CFR64. The facility does not have a pollutant specific emissions unit with a control device to meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.</p> <p>40 CFR 63, Subpart AAAA—NESHAP for Municipal Solid Waste Landfills: This facility is not subject to AAAA because: This MSW landfill is not a major source of HAPs; The MSW landfill is not collocated with a major source of HAPs; The MSW landfill is an area source with a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions less than 50 megagrams per year (Mg/yr) NMOC; This MSW landfill does not include a bioreactor, as defined in 40 C.F.R §63.1990.</p>
<input checked="" type="checkbox"/> Permit Shield

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☒ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

45CSR§6-3.1. – Open burning
45CSR§6-3.2. – Open burning exemptions
40 C.F.R. §61.145(b) and 45CSR34 – Asbestos
45CSR§4-3.1. State-Enforceable only – Odor
45CSR§11-5.2. – Standby plan for reducing emissions
W.Va. Code § 22-5-4(a)(14) – Emission inventory
40 C.F.R. 82, Subpart F – Ozone-depleting substances
40 C.F.R. 68 – Risk Management Plan
45CSR§17-3.1. – Fugitive particulate matter
45CSR§17-3.2. & 4.1. – Fugitive particulate matter control
45CSR§42-3.1. State-Enforceable only – Reporting of Greenhouse gases
40 C.F.R. 98, Subpart HH, Mandatory Reporting of Greenhouse Gases.

☒ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

W.Va. Code § 22-5-4(a)(15) and 45CSR13 – Stack testing
45CSR§30-5.1.c.2.A. – Monitoring information
45CSR§30-5.1.c.2.B. – Retention of records
45CSR§30-5.1.c. State-Enforceable only – Odors
45CSR§30-5.1.c. Monitor dust control systems and maintain records of dust control
45CSR§§30-4.4. and 5.1.c.3.D. – Responsible official
45CSR§30-5.1.c.3.E. – Reporting requirements for confidential information
45CSR§30-8. – Certified emissions statement
45CSR§30-5.3.e. – Compliance certification
45CSR§30-5.1.c.3.A. – Semi-annual monitoring reports
45CSR§30-5.1.c.3.C. – Deviations
45CSR§30-5.1.c.3.B. – Reporting of deviations
45CSR§30-4.3.h.1.B. – New applicable requirements
45CSR§42-4.1. State-Enforceable only – Greenhouse gas reporting requirements
45CSR§42-4.2. State-Enforceable only – Greenhouse gas reporting requirements
45CSR§42-4.5. State-Enforceable only – Greenhouse gas reporting requirements

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 C.F.R. 98.343 Calculating GHG emissions

40 C.F.R. 98.344 Monitoring and QA/QC requirements

40 C.F.R. 98.356 Data reporting requirements

40 C.F.R. 98.347 Records that must be retained

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

21. Active Permits/Consent Orders

[illegible]

22. Inactive Permits/Obsolete Permit Conditions

[illegible]

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	33.83
Nitrogen Oxides (NO _x)	1.3
Lead (Pb)	
Particulate Matter (PM _{2.5}) ¹	8.21
Particulate Matter (PM ₁₀) ¹	21.30
Total Particulate Matter (TSP)	113.65
Sulfur Dioxide (SO ₂)	
Volatile Organic Compounds (VOC)	38.62
Hazardous Air Pollutants ²	Potential Emissions
Total HAPs (each HAP < 10tpy)	25.13
Regulated Pollutants other than Criteria and HAP	Potential Emissions
Hydrogen Sulfide	2.98
Carbon Dioxide (CO ₂)	53,471
NMOC	761.50 Mg
Methane	19,488
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.	

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input checked="" type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input checked="" type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input checked="" type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input checked="" type="checkbox"/>	18. Emergency road flares.
<input checked="" type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO₂, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p><u>Chippers</u></p> <p><u>Rock crushers</u></p> <p><u>Portable compressors</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)

<input type="checkbox"/>	20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
<input checked="" type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input checked="" type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input checked="" type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input checked="" type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input checked="" type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input checked="" type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input checked="" type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input checked="" type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input checked="" type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input checked="" type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D .
26. Emission Units
For each emission unit listed in the Title V Equipment Table , fill out and provide an Emission Unit Form as ATTACHMENT E .
For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F .
27. Control Devices
For each control device listed in the Title V Equipment Table , fill out and provide an Air Pollution Control Device Form as ATTACHMENT G .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H .

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name: Doug Hall

Title: Senior District Manager

Responsible official's signature:

Signature: _____ Signature Date: _____
(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:

<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

ATTACHMENT A
Area Map



Reference
 XMap® 6 © DeLorme,
 Yarmouth, Me 04096
 Source Data: Delorme
 North America Topographic Data
 2011
 Topographic Quadrangles
 Hurricane, WV
 Scott Depot, WV

Vicinity Map

Scale 1" = 2000'

MSES Consultants, Inc.
 Clarksburg, West Virginia

Disposal Services, Inc.
Sanitary Landfill

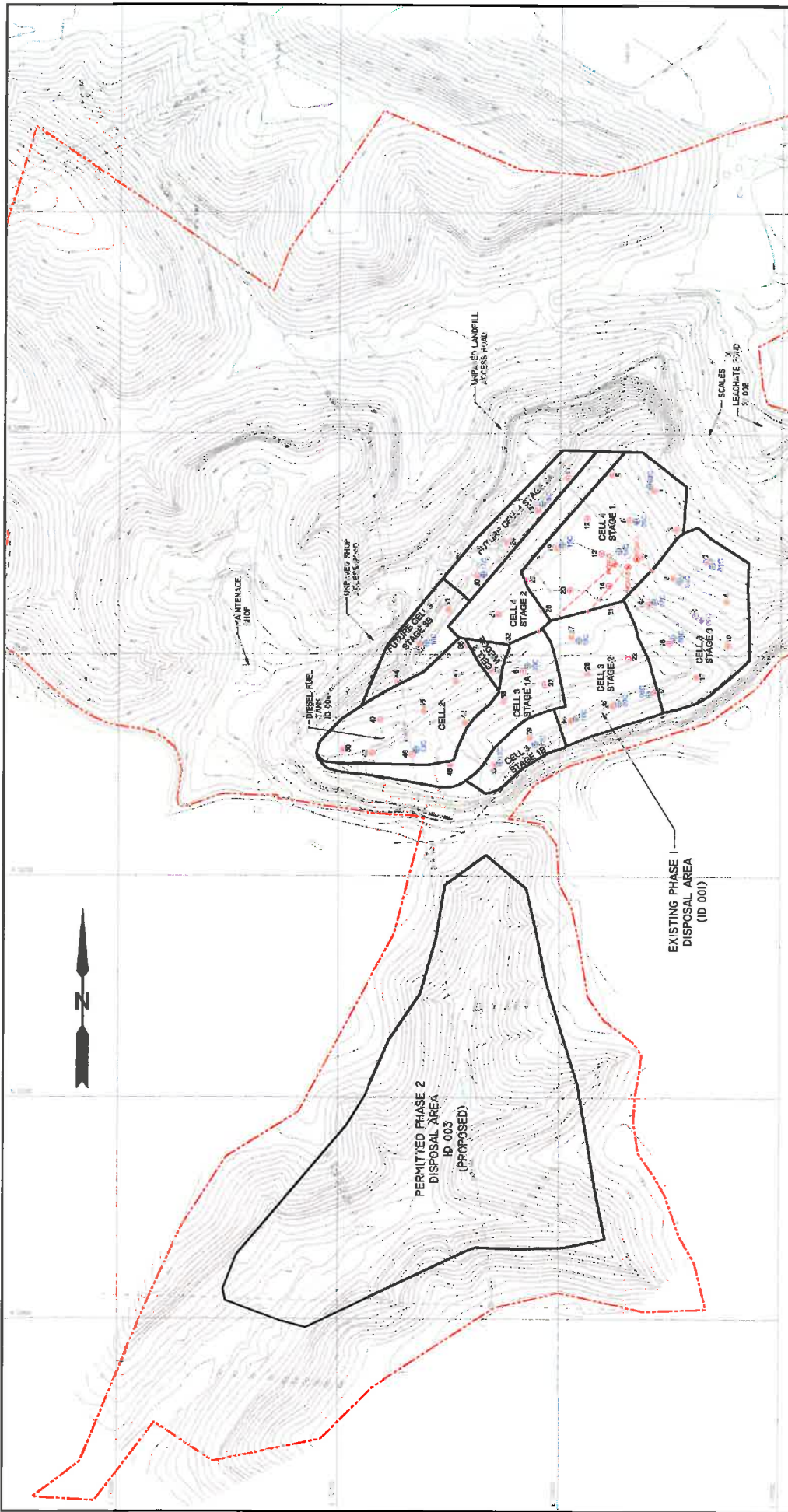
**Title V Air Permit
 Application**

Project No. 15-030

VICINITY MAP

ATTACHMENT B

Plot Plan(s)



LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- PERMITTED DISPOSAL LIMITS
- APPROPRIATE EXISTING TREE LINE
- EXISTING DITCH OR STREAM
- PROPOSED PASSIVE GAS FLAME CONTROL DEVICE
- PROPOSED 6" 5' JUNT
- HORIZONTAL GAS VENT
- POOT PENETRATION

0' 20' 40' 60'

- NOTES:**
1. THE ACTUAL LOCATION OF THE GAS VENTS AND FLAMES WILL BE DETERMINED AT THE TIME OF INSTALLATION.
 2. NECESSARY PERMIT WILL BE OBTAINED PRIOR TO INSTALLATION.
 3. SEE ATTACHMENT B1 FOR DETAILS.

REFERENCE:
AERIAL MAPPING FLOWN IN M-2, 200 BY
LAND AND MAPPHIS SERVICES AND A DRAWING
BY ALLIANCE CONSULTING, INC., TITLED
PROPERTY AND PERMIT MAP DATED 10-05-10

CENTEC
110 SUNSET DRIVE, STE. 2
BECKLEY, WV
304-928-2832
centec-engineering.com

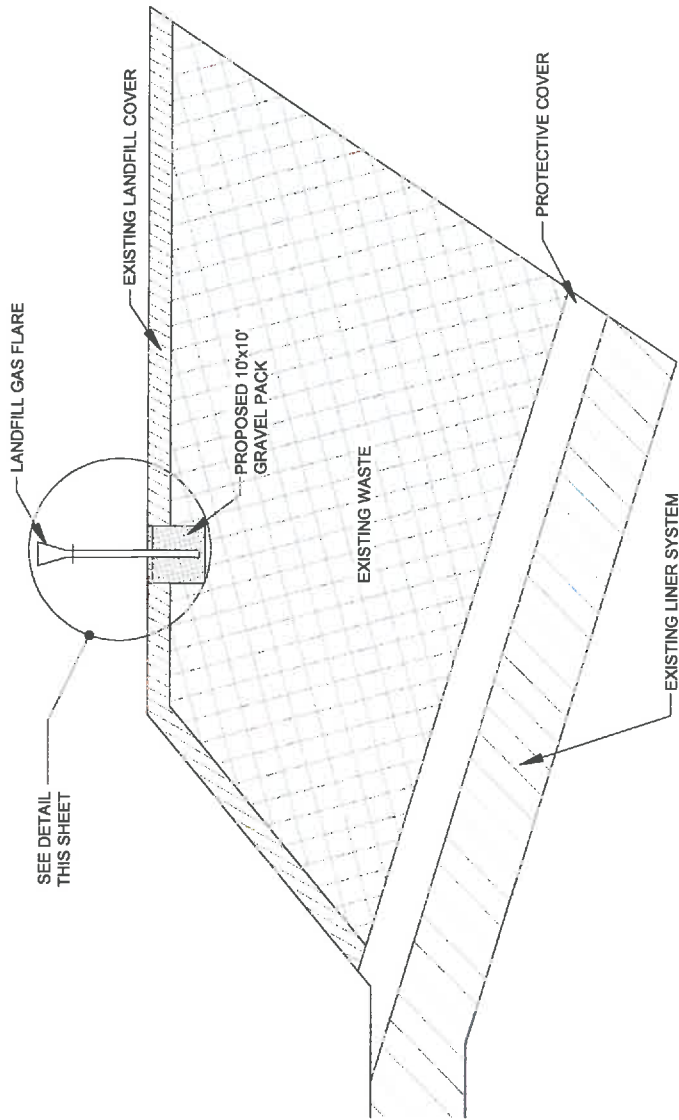
CIVIL and ENVIRONMENTAL ENGINEERS

NO.	DESCRIPTION	BY
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100		

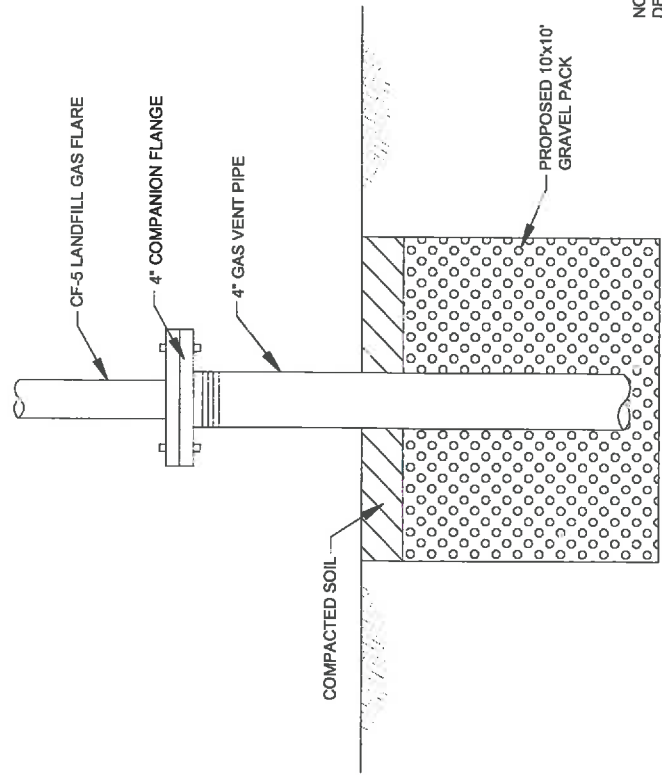
PLOT PLAN
TITLE V RENEWAL
DISPOSAL SERVICE, INC.
SANITARY LANDFILL
WASTE MANAGEMENT, INC.
HURRICANE, WEST VIRGINIA
PROJECT NUMBER: 100002108
DATE: 10-05-10
CHECKED BY: JLS
APPROVED BY: JLS
DRAWING NO. 10-008-D24

ATTACHMENT C

Process Flow Diagram(s)



GAS VENT FLARE DETAIL
NOT TO SCALE



**GAS VENT TO GAS FLARE
CONNECTION DETAIL**
NOT TO SCALE

NOTE: A SIMILAR CONNECTION
DETAIL WILL ALSO BE USED FOR
THE GAS EXTRACTION WELLS.

CENTEC
ENGINEERING, PLLC

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BECKLEY, WV 25801
304-829-2632
centec-engineering.com

CIVIL and ENVIRONMENTAL ENGINEERS

REV.		DESCRIPTION	DATE	GAS FLARE DETAILS	
				TITLE V RENEWAL	
				DISPOSAL SERVICE, INC. LANDFILL	
				WASTE MANAGEMENT	
				HURRICANE, WEST VIRGINIA	
				PROJECT NUMBER 10-008-106	ATTACHMENT B1
				DRAWING NO. 10-009-D25	

ATTACHMENT D

Emission Units Table

ATTACHMENT D - Emission Units Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

[illegible]

For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

ATTACHMENT E

Emission Unit Form(s)

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

001, 003

Emission unit name:

Landfill Operations

List any control devices associated with this emission unit: 01C-20C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Active (Phase I) landfill area (001)

Future (Phase II) landfill area (003)

Manufacturer:

NA

Model number:

NA

Serial number:

NA

Construction date:

1980

Installation date:

MM/DD/YYYY

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Design capacity of Phase I is 4,133,263 Mg
Design capacity of Phase II is 4,618,574 Mg

Maximum Hourly Throughput:

Maximum Annual Throughput:

Maximum Operating Schedule:

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes X No

If yes, is it?

___ Indirect Fired ___ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

NA

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		9.53
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		7.61
Particulate Matter (PM ₁₀)		21.30
Total Particulate Matter (TSP)		113.65
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		38.59
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total		24.33
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NMOC		761.50 Mg
Hydrogen Sulfide		2.98
Carbon Dioxide		53471
Methane		19488
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>USEPA LandGEM 3.02 software with regulatory default values, and AP-42 Chapters 11.9.1, 13.2.1, 11.2.2, and 11.2.4.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

45CSR23, 40CFR60.757, and 40CFR60.754(a)(3). Requirements When Reported NMOC Emission Rate is \geq 50 Mg/yr.

45CSR23, 40CFR60.757, and 40CFR60.754(a)(4). Requirements When Reported NMOC Emission Rate is \geq 50 Mg/yr. (when using site specific C_{NMOC})

45CSR23, 40CFR60.752, and 40CFR60.753. Design parameters for a landfill gas collection and control system which conforms to 40CDR60.759.

45CSR23, 40CFR60.757(c). LFG Collection and Control System Design Plan.

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45CSR23, 40CFR60.758. Maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit.

45CSR23, 40CFR60.757(b). Annual NMOC Emission Report.

45CSR23, 40CFR60.757(b)(1)(ii). 5-year NMOC Report and Revision of 5-year NMOC Report.

45CSR23, 40CFR60.757(d) and 40CFR60.758. Closure Report

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

01C through 20C

Emission unit name:

Passive Landfill Gas Vents

List any control devices associated with this emission unit:

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

The vent flares are designed to operate between 1 and 50 SCFM of landfill gas. The flare will typically burn in less than 5% oxygen and between 40% and 60% methane. When operating at the design flow rate, the flare will achieve 98% destruction of hydrocarbons. The flare is warranted to meet EPA emission standards for landfill gas disposal in utility flares.

Manufacturer:

Shaw LFG Specialties, LLC

Model number:

2-inch Vent Flare

Serial number:

Construction date:

MM/DD/YYYY

Installation date:

MM/DD/YYYY

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 50 cfm of landfill gas each

Maximum Hourly Throughput:

3,000 cubic feet per hour each

Maximum Annual Throughput:

26.28 mmcf/yr each

Maximum Operating Schedule:

8760 hours/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ☒ Yes ☐ No

If yes, is it?

☐ Indirect Fired ☒ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

3,000 cubic feet per hour of landfill gas per flare. 60,000 cu ft/hr for all 20.

26.28 mmcf per year of landfill gas per flare. 525.6 mmcf per year for all 20.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Landfill Gas	NA	NA	Minimum 200

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		24.3
Nitrogen Oxides (NO _x)		1.3
Lead (Pb)		
Particulate Matter (PM _{2.5})		0.6
Particulate Matter (PM ₁₀)		0.6
Total Particulate Matter (TSP)		0.6
Sulfur Dioxide (SO ₂)		0.6
Volatile Organic Compounds (VOC)		0.03
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HCl		0.8
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

R13-2688 emission limits.

Emissions are potential to emit for a total of 20 flares.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

45CSR6-4.1., 45CSR10-5.1., R13-2688, 4.1.1.a. Emission limits.

45CSR6-4.3., R13-2688 4.1.1.b. Visible emissions.

45CSR6-4.4., R13-2688 4.1.1.b. Visible emissions exceptions.

45CSR13-5.11., R13-2688, 4.1.2. Operation and Maintenance of Air Pollution Control Equipment.

45CSR6-4.5. The emission of particles of unburned or partially burned refuse of ash from the flare which are large enough to be individually distinguished in the open air shall not be allowed or permitted.

45CSR6-4.6. The flares, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

45CSR6-6.1. Obtain a permit if flares are modified or relocated.

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

R13-2688, 4.2.1. Monthly Method 22 visible emission checks shall be conducted to determine compliance with opacity limits.

R13-2688, 4.4.1. The permittee shall maintain records of all monitoring data required for opacity.

R13-2688, 4.4.2. Record of maintenance of air pollution control equipment.

R13-2688, 4.4.3. Record of malfunctions of air pollution control equipment.

R13-2688, 4.4.4. Maintain records of all monitoring data.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

004

Emission unit name:

Diesel FuelTank

List any control devices associated with this emission unit:

NA

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Storage tank for diesel fuel

Manufacturer:

Model number:

Serial number:

Construction date:

MM/DD/YYYY

Installation date:

MM/DD/YYYY

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 10,000 gallons

Maximum Hourly Throughput:

Maximum Annual Throughput:

Maximum Operating Schedule:

24 hrs/day, 365 days/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes X No

If yes, is it?

___ Indirect Fired ___ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

NA

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		0.0036
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

USEPA TANKS 4.0

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR 60.116b(b)

40 CFR 60.116b(d)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

40 CFR 60.116b(b) III.B.2.a.vii. The owner or operator of each storage vessel shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the source.

40 CFR 60.116b(d) III.B.2.a.viii. The owner or operator of each storage vessel with a design capacity greater than or equal to 151 cubic meters storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa shall notify the Administrator and Secretary within 30 days when the maximum true vapor pressure of the liquid exceeds 5.2 kPa.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT G

Air Pollution Control Device Form

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 01C – 20C	List all emission units associated with this control device. 01E – 20E
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Manufacturer: Shaw LFG Specialties, LLC	Model number: Standard 2-inch Vent Flare	Installation date: 2011
---	--	---------------------------------------

Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input checked="" type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
VOC	50%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Maximum 50 cfm of landfill gas can be burned per flare. Minimum Btu value is 200.

Is this device subject to the CAM requirements of 40 C.F.R. 64? ☐ Yes ☒ No

If Yes, Complete ATTACHMENT H

If No, Provide justification. No pollutant specific limit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Method 22-like visible emissions checks. Presence of a flame.