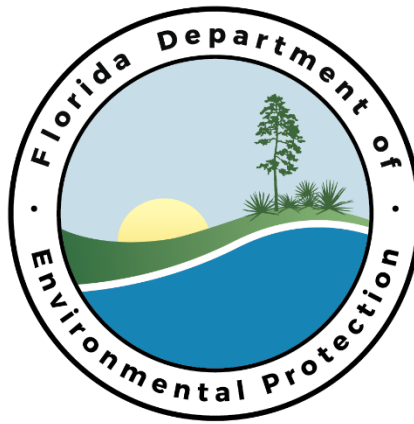


A.C.M.S., Inc.
Heart of Florida Landfill (A.C.M.S. Class I Landfill)
Facility ID No. 1190053
Sumter County

Title V Air Operation Permit Renewal
Permit No. 1190053-003-AV
(Renewal of Title V Air Operation Permit No. 1190053-001-AV)



Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road
Mail Station #5505
Tallahassee, Florida 32399-2400
Telephone: 850/717-9000
Email: DARM_Permitting@dep.state.fl.us

Compliance Authority:

State of Florida
Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767
Telephone: 407/894-7555
Fax: 407/897-2966
Email: DEP_CD@dep.state.fl.us

Title V Air Operation Permit Renewal

Permit No. 1190053-003-AV

Table of Contents

<u>Section</u>	<u>Page Number</u>
Placard Page	iii
I. Facility Information.	
A. Facility Description.	2
B. Summary of Emissions Units.	2
C. Applicable Requirements.	2
II. Facility-wide Conditions.	4
III. Emissions Units and Conditions.	
A. E.U. ID No. 001: Municipal Solid Waste Landfill.	7
B. E.U. ID No. 003: Solar Flares (up to 10 landfill gas powered solar spark flares).	14
IV. Appendices.	See Appendices Document
Appendix 40 CFR 60 Subpart A, NSPS General Provisions (version dated 02/05/2010).	
Appendix 40 CFR 60 Subpart WWW, NSPS for Municipal Solid Waste Landfills (version dated 08/06/2009).	
Appendix 40 CFR 61 Subpart A, NESHAP General Provisions (version dated 05/06/2004).	
Appendix 40 CFR 61 Subpart M, NESHAP for Asbestos (version dated 08/19/2004).	
Appendix 40 CFR 63 Subpart A, NESHAP General Provisions.	
Appendix 40 CFR 63 Subpart ZZZZ "Generally Applicable Requirements," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	
Appendix A, Abbreviations, Acronyms, Citations and Identification Numbers.	
Appendix I, List of Insignificant Emissions Units and/or Activities.	
Appendix RR, Facility-wide Reporting Requirements.	
Appendix TR, Facility-wide Testing Requirements.	
Appendix TV, Title V General Conditions.	
Referenced Attachments.	At End of Appendices Document
Table H, Permit History.	
Table E-1. Summary of Maintenance Requirements for Engines.	
Table L-1. Summary of Monitoring Requirements for MSW Landfills (40 CFR 60, Subpart WWW).	
Table L-2. Summary of Recordkeeping Requirements for MSW Landfills (40 CFR 60, Subpart WWW).	
Table L-3. Summary of Compliance Reporting Requirements for MSW Landfills (40 CFR 60, Subpart WWW).	



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE:

A.C.M.S., Inc.
1032 CR 529A
Bushnell, Florida 33538

Permit No. 1190053-003-AV
Heart of Florida Landfill
Facility ID No. 1190053

Project: Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. This existing facility is in Sumter County at 1032 CR 529A, Bushnell, Florida; UTM Coordinates are: Zone 17, 393.40 East and 3179.39 North. Latitude is: 28°44'15" North; and, Longitude is: 82°5'30" West.

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: July 26, 2017

Renewal Application Due Date: December 13, 2021

Expiration Date: July 26, 2022

For:

Syed Arif, P.E., Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

SA/dlr/sms

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The Heart of Florida Landfill is located in Sumter County at 1032 CR 529A, Bushnell, Florida.

The Heart of Florida Landfill is a multi-function solid waste management facility. The waste permitted to be accepted in this Class I landfill includes waste classified as municipal solid waste (MSW), commercial waste, industrial waste, agricultural waste, construction & demolition (C&D) debris, water and air treatment sludge, industrial and domestic sludge, incinerator and WTE (waste to energy) ash, shredded tires and asbestos containing materials. This landfill has an active asbestos waste disposal site.

Also included in this permit are miscellaneous insignificant emission units and/or activities. The Heart of Florida Landfill is owned and operated by A.C.M.S., Inc.

This Class I landfill has a design capacity equal to or greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.

Landfill gas emissions are not required to be collected and controlled at this time. The landfill is required to submit an NMOC emissions rate report every five years to demonstrate compliance with the NMOC emissions threshold for collection and control system exemption. The NSPS 40 CFR Part 60, Subpart WWW for Municipal Solid Waste Landfills was revised and the revisions became effective in July 2016. One of the major changes was the threshold for requiring a landfill gas collection and control system was reduced from 50 Mg/year to 34 Mg/year of NMOC emissions for both new and existing landfills. The current NMOC emissions at this landfill are below the lower threshold of 34 Mg/year so this facility is not affected by this change at this time {2016 emissions are ~ 14.3 Mg/year}. Detailed information for the design capacity and Tier II testing results for the landfill are included in the permit application.

Subsection B. Summary of Emissions Units.

E.U. ID No.	Brief Description
<i>Regulated Emissions Units</i>	
001	Municipal Solid Waste Landfill
003	Solar Flares (up to 10 landfill gas powered solar spark flares)
<i>Unregulated Emissions Units</i>	
002	Fugitive PM/PM ₁₀ Emissions from Roads and Earthmoving Operations associated with the landfill

Subsection C. Applicable Requirements.

Based on the Title V air operation permit renewal application received on March 28, 2017, this facility is not a major source of hazardous air pollutants (HAP). This facility is not classified as a Prevention of Significant Deterioration (PSD) major facility. A summary of important applicable requirements is shown in the following table.

Applicable Requirement	E.U. ID No(s).
<i>Municipal Solid Waste Landfill</i>	
40 CFR 60, Subpart A, Standards of Performance for New Stationary Sources (NSPS) General Provisions	001
40 CFR 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills	001

SECTION I. FACILITY INFORMATION.

40 CFR 61, Subpart A, General Provisions	001
40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos	001
Rule 62-210.300, F.A.C., Permits Required	002 & 003

[Table of Contents](#)

SECTION II. FACILITY-WIDE CONDITIONS.

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV., Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) & 62-210.200 (Definitions), F.A.C.]

Odor Remediation Plan

FW3. Not Federally Enforceable. Odor Remediation Plan. The facility shall be operated to control objectionable odors in accordance with subsection 62-296.320(2), F.A.C. After being notified by the Department that objectionable odors have been confirmed beyond the landfill property boundary, the owner or operator shall:

- Immediately take steps to reduce the objectionable odors. Such steps may include applying or increasing initial cover, reducing the size of the working face, and ceasing operations in the areas where odors have been detected;
- Submit to the Department for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed long-term remedy. The remedy shall be initiated within 30 days of approval.
- Implement a routine odor monitoring program to determine the timing and extent of any off-site odors, and to evaluate the effectiveness of the odor remediation plan.

[Rule 62-701.530(3)(b), F.A.C.]

FW4. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1)(a), F.A.C.]

{Permitting note: Nothing is deemed necessary and ordered at this time.}

FW5. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW6. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- Posting and enforcing the speed limits on all roads inside the landfill to minimize fugitive dust emissions generated by vehicles; and,
- Using water trucks to wet the unpaved roads to suppress dust. The frequency of watering varies with prevailing weather conditions at the landfill site.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in the Title V air operation permit renewal application received on March 28, 2017.]

Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements, for additional details.

SECTION II. FACILITY-WIDE CONDITIONS.

FW7. Electronic Annual Operating Report (EAOR) and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1st of each year, for the previous calendar year, to the Department of Environmental Protection's Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP's Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of Rule 62-210.370(2), F.A.C. Each Title V source must pay between January 15th and April 1st of each year an annual emissions fee in an amount determined as set forth in Rule 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida. 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, Section 403.0872(11), Florida Statutes (2013)]

{Permitting notes:

If the permittee chooses to use the EAOR software, instructions provided with the system should be followed.

Resources to help complete the AOR are available on the website at:

<http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.

Also, the Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) was repealed; a separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.

FW8. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the U.S. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303
Attn: Air Enforcement Branch

{Permitting note: As specified in Specific Condition RR7 of Appendix RR, the permittee shall use DEP Form No. 62-213.900(7) to comply with this requirement.}

FW9. Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: <https://cdx.epa.gov>. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: <http://www2.epa.gov/rmp>. The RMP Reporting

SECTION II. FACILITY-WIDE CONDITIONS.

Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: 703/227-7650.

- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68.]

FW10. Semi-Annual Monitoring Reports. The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports of any deviations from the requirements of these conditions at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), F.A.C. (See also Conditions RR2. - RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.]

{Permitting note: U.S. EPA has clarified that pursuant to 40 CFR 70.6(a)(3), the word “monitoring” is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}

[Table of Contents](#)

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

The specific conditions in this section apply to the following emissions unit(s):

E.U. ID No.	Brief Description
001	Municipal Solid Waste Landfill

The landfill began operation in 2013. The landfill has accepted municipal solid waste (MSW). The current design capacity of the landfill is estimated to be 8.5 million cubic yards (6.5 million cubic meters) by volume, and 5.1 million tons (4.64 million megagrams (Mg)) by mass. Total area of waste placement storage is estimated at 58.8 acres. There is no gas collection and control system in place. All emissions from the landfill are fugitive. The landfill's estimated closure date is 2029.

The landfill is not a major source of HAP. The landfill does not contain a bioreactor.

{Permitting note(s): This emissions unit is regulated under: Rule 62-210.300, F.A.C., Permits Required; and, 40 CFR 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills adopted by reference in Rule 62-204.800(8)(b), F.A.C.}

Under NSPS 40 CFR 60, Subpart WWW a landfill gas collection & control system is not required because NMOC emissions are < 50 Mg/year {see 40 CFR 60.752(b)(1)&(2)}.

Because asbestos-containing waste is accepted at this landfill, the facility is also subject to regulation under 40 CFR 61, Subpart M, National Emissions Standards for Asbestos, adopted and incorporated by reference in Rule 62-204.800(10)(b)8., F.A.C.}

Essential Potential to Emit (PTE) Parameters

A.1. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE)), F.A.C.]

Emission Limitations and Standards

- A.2. NMOC Emission Rate.** The owner or operator shall calculate an NMOC emission rate for the landfill using the procedures specified in 40 CFR 60.754 (see Specific Condition **A.4.**)
- If the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:
 - Submit an annual NMOC emissions rate report to the compliance authority, except as provided in 40 CFR 60.757(b)(1)(ii) (see Specific Condition **A.8.a.**).
 - Recalculate the NMOC emission rate annually using the procedures specified in 40 CFR 60.754(a)(1) (see Specific Condition **A.4.**) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.
 - If the NMOC emission rate, upon recalculation, is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system in compliance with 40 CFR 60.752(b)(2).
 - If the landfill is permanently closed, a closure notification shall be submitted to the Department as provided for in 40 CFR 60.757(d).
 - If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:
 - Submit a collection and control system design plan (see Specific Condition **A.9.**) prepared by a professional engineer to the Department within 1 year that meets the requirements of 40 CFR 752(b)(2)(i).
 - Install a collection and control system that captures the gas generated within the landfill as required by 40 CFR 60.752(b)(2)(ii)(A) or (B) and (b)(2)(iii) within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in 40 CFR 60.757(c)(1) or (2). (see Specific Condition **A.9.**)

[40 CFR 60.752(b).]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

Operational Requirements and Control Technology

- A.3. Operational Standards for Asbestos Waste Disposal.** Because this facility receives asbestos-containing waste material from: asbestos mills; manufacturing, fabricating, demolition, renovation, and spraying operations; and operations that convert asbestos-containing waste material into non-asbestos (asbestos-free) material, the owner or operator shall meet the following requirements:
- Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of [paragraph c.](#) or [d.](#) of this condition must be met.
 - Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of [paragraph c\(1\)](#) of this condition must be met.
 - (a) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:
 - Be posted in such a manner and location that a person can easily read the legend, and
 - Conform to the requirements of 51 cm × 36 cm (20 inch×14 inch) upright format signs specified in **29 CFR 1910.145(d)(4)** and this paragraph; and
[Note: 29 CFR 1910.145(d)(4) *Caution signs.* The standard color of the background shall be yellow; and the panel, black with yellow letters. Any letters used against the yellow background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of ANSI Z53.1-1967 or Table 1 of ANSI Z535.1-2006(R2011), incorporated by reference in 29 CFR 1910.6. [Link to 29 CFR 1910.145](#)]
 - (3) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Notation
Asbestos Waste Disposal Site	2.5 cm (1 inch) Sans Serif, Gothic or Block.
Do Not Create Dust	1.9 cm (3/4 inch) Sans Serif, Gothic or Block.
Breathing Asbestos is Hazardous to Your Health	14 Point Gothic.

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

- (b) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.
- (c) Upon request and supply of appropriate information, the Department will determine whether a fence or a natural barrier adequately deters access by the general public.
- c. Rather than meet the no visible emission requirement of [paragraph a.](#) of this condition, at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:
 - (d) Be covered with at least 15 centimeters (6 inches) of compacted non-asbestos-containing material, or
 - (e) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.
- d. Rather than meet the no visible emission requirement of [paragraph a.](#) of this condition, use an alternative emissions control method that has received prior written approval by the Administrator.

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

As prescribed by 40 CFR 61.149(c)(2), to obtain approval for an alternative method, a written application must be submitted to the Administrator demonstrating that the following criteria are met:

- (1) The alternative method will control asbestos emissions equivalent to currently required methods.
 - (2) The suitability of the alternative method for the intended application.
 - (3) The alternative method will not violate other regulations.
 - (4) The alternative method will not result in increased water pollution, land pollution, or occupational hazards.
- e. For all asbestos-containing waste material received, the owner or operator shall:
- (1) Maintain waste shipment records, using a form similar to that shown in Figure 4 of 40 CFR 61.149 [[Link to 40 CFR 61.149](#)], and include the following information:
 - (1) The name, address and telephone number of the waste generator.
 - (2) The name, address and telephone number of the transporter(s).
 - (3) The quantity of the asbestos-containing waste material in cubic meters (cubic yards).
 - (4) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
 - (5) The date of the receipt.
 - (2) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
 - (3) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
 - (4) Retain a copy of all records and reports required by this paragraph for at least 5 years.
- f. Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
- g. Upon closure, comply with all the provisions of 40 CFR 61.151 [Link to 40 CFR 61.151](#).
- h. Submit to the Department, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
- i. Furnish upon request, and make available during normal business hours for inspection by the Department, all records required under this permit.
- j. Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least ten working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
- (1) Scheduled starting and completion dates.
 - (2) Reason for disturbing the waste.

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

- (3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.

- (4) Location of any temporary storage site and the final disposal site.

[29 CFR 1910.145(d)(4), 40 CFR 61.149(c)(2), and 40 CFR 61.154.]

Monitoring Requirements

{Permitting note: TABLE L-1. SUMMARY OF MONITORING REQUIREMENTS FOR MSW LANDFILLS under 40 CFR 60, Subpart WWW, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Test Methods and Procedures

- A.4. Calculation of the NMOC Emission Rate.** The landfill owner or operator shall calculate the NMOC emission rate using the following equation:

$$M_{NMOC} = \sum_{i=1}^n 2 K L_o M_i (e^{-K t_i}) (C_{NMOC}) (3.6 \times 10^{-9})$$

Where,

M_{NMOC} = Total NMOC emission rate from the landfill, megagrams per year

K = methane generation rate constant, $\text{year}^{-1} = 0.05$

L_o = methane generation potential, cubic meters per megagram solid waste = 170 cubic meters per megagram

M_i = mass of solid waste in the i^{th} section, megagrams

t_i = age of the i^{th} section, years

C_{NMOC} = concentration of NMOC, parts per million by volume as hexane = 4000 parts per million (ppm) by volume as hexane

3.6×10^{-9} = conversion factor

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i if documentation of the nature and amount of such wastes is maintained. [40 CFR 60.754(a)(1)(i).]

- A.5. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
2E	Determination of Landfill Gas Production Flow Rate
21	Determination of Volatile Organic Compound Leaks
25	Determination of Total Gaseous Nonmethane Organic Emissions as Carbon
25C	Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

- A.6. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

Recordkeeping and Reporting Requirements

{Permitting note: TABLE L-2. SUMMARY OF RECORDKEEPING REQUIREMENTS FOR MSW LANDFILLS under 40 CFR 60, Subpart WWW, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: TABLE L-3. SUMMARY OF COMPLIANCE REPORTING REQUIREMENTS FOR MSW LANDFILLS under 40 CFR 60, Subpart WWW, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.7. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
NMOC Emission Rate Reports	Initially and annually thereafter	A.8.
Collection and Control System Design Plan	Within 1 year of exceeding 50 megagrams	A.9.
Facility Closure Report	Within 30 days of waste acceptance cessation	A.10.

[Rule 62-213.440(1)(b), F.A.C.]

A.8. NMOC Emission Rate Reports. The owner or operator shall submit an NMOC emission rate report to the Department annually, except as provided for in **paragraphs a. or c.** of this condition. The Department may request such additional information as may be necessary to verify the reported NMOC emission rate.

- a. The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in Specific Condition **A.4.** If the estimated NMOC emission rate as reported in the annual report to the Department is less than 50 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Department. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Department. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.
- b. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.
- c. The owner or operator is exempted from the requirements of **paragraphs a. and b.** of this condition, after the installation of a collection and control system in compliance with 40 CFR 60.752(b)(2) (see Specific Condition **A.2.**), during such time as the collection and control system is in operation and in compliance with 40 CFR 60.753 and 60.755.

[40 CFR 60.757(b).]

A.9. Collection and Control System Design Plan Report. The owner or operator shall calculate an NMOC emission rate for the landfill using the procedures specified in 40 CFR 60.754 (see Specific Condition **A.4.**)

- a. If the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:
 - (1) Submit an annual NMOC emissions rate report to the compliance authority, except as provided in 40 CFR 60.757(b)(1)(ii) (see Specific Condition **A.8.a.**).
 - (2) Recalculate the NMOC emission rate annually using the procedures specified in 40 CFR 60.754(a)(1) (see Specific Condition **A.4.**) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

- (a) If the NMOC emission rate, upon recalculation, is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system in compliance with 40 CFR 60.752(b)(2).
 - (b) If the landfill is permanently closed, a closure notification shall be submitted to the Department as provided for in 40 CFR 60.757(d).
 - b. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:
 - (1) Submit a collection and control system design plan (see Specific Condition **A.9.**) prepared by a professional engineer to the Department within 1 year that meets the requirements of 40 CFR 752(b)(2)(i).
 - (2) Install a collection and control system that captures the gas generated within the landfill as required by 40 CFR 60.752(b)(2)(ii)(A) or (B) and (b)(2)(iii) within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in 40 CFR 60.757(c)(1) or (2). (see Specific Condition **A.9.**)
- [40 CFR 60.752(b).]

A.10. Facility Closure Report. The permittee shall submit a closure report to the Department within 30 days of waste acceptance cessation. The Department may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without filing a notification of modification as described under §60.7(a)(4). [40 CFR 60.757(d).]

A.11. Asbestos Records and Reports. The permittee shall maintain records and reports in accordance with 40 CFR 61.154(e) and for a period of at least five years (see Specific Condition **A.3.e.**). [40 CFR 61.154(e).]

A.12. Asbestos Location Records. The permittee shall maintain, until closure, location records of the asbestos containing waste subject to 40 CFR 61.154 in accordance with 40 CFR 61.154(f) (see Specific Condition **A.3.f.**). [40 CFR 61.154(f).]

A.13. Records Retention. The permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that subjected the landfill to the requirements of 40 CFR Part 60, Subpart WWW, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a).]

A.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

NSPS 40 CFR 60, Subpart A Requirements

A.15. NSPS Requirements - Subpart A. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:
40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements
40 CFR 60.19, General Notification and Reporting Requirements,
which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart A** included with this permit. [Rule 62-204.800(8)(d), F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 001 Municipal Solid Waste Landfill

NSPS 40 CFR 60, Subpart WWW Requirements

A.16. NSPS Requirements - Subpart WWW. Except as otherwise provided in this permit, this emissions unit shall comply with all applicable provisions of 40 CFR 60, Subpart WWW, Municipal Solid Waste Landfills, adopted by reference in Rule 62-204.800(8)(b), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.754(a)(5). This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart WWW** included with this permit. [Rule 62-204.800(8)(b)76., F.A.C.]

NESHAP 40 CFR 61, Subpart A & M - Asbestos Disposal Site Standards

A.17. NESHAP 40 CFR 61 Requirements - Subpart M. The asbestos waste disposal sites shall comply with all applicable requirements of 40 CFR 61, Subpart M, National Emission Standard for Asbestos, which have been adopted by reference in Rule 62-204.800(10)(b), F.A.C.; except that the Secretary is not the Administrator for the purposes of 40 CFR 61.149(c)(2), 40 CFR 61.150(a)(4), 40 CFR 61.151(c), 40 CFR 61.152(b)(3), 40 CFR 61.154(d), and 40 CFR 61.155(a). These emissions units shall comply with all applicable provisions of **Appendix 40 CFR 61, Subpart M**, included with this permit. [Rule 62-204.800(10)(b)8., F.A.C.]

A.18. NESHAP 40 CFR 61 Requirements - Subpart A. The asbestos waste disposal sites shall comply with all applicable requirements of 40 CFR 61, Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(10)(d), F.A.C.; except for 40 CFR 61.08 and except that the Secretary is not the Administrator for the purposes of 40 CFR 61.04, 40 CFR 61.11, and 40 CFR 61.18. In lieu of the process set forth in 40 CFR 61.08, the Department will follow the permit processing procedures of Rule 62-4.055, F.A.C. The asbestos waste disposal sites shall comply with all applicable provisions of **Appendix 40 CFR 61 Subpart A - General Provisions** included with this permit. [Rule 62-204.800(10)(d), F.A.C.]

[Table of Contents](#)

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection B. Emissions Unit 003

Solar Flares

The specific conditions in this section apply to the following emissions unit(s):

E.U. ID No.	Brief Description
003	Solar Flares (up to 10 landfill gas powered solar spark flares)

This permit allows the installation of up to ten (10) landfill gas powered solar spark flares for the removal and combustion of landfill gas. These flares will be positioned at existing leachate collection risers, hot spots in the landfill, and future horizontal collector trenches to combust landfill gas as it is released.

Each flare is designed to process 90 scfm (standard cubic feet per minute) of landfill gas. In total, the flares will have the ability to process 473,040,000 scf/year of landfill gas. Each flare will be secured to a leachate cleanout riser, a riser pipe or in various areas within the waste footprint in order to combust the gas produced at the riser location. A continuous spark pilot will be responsible for initiating combustion. The units are powered by a solar panel and possess an in-line flame arrestor & ball valve.

{Permitting note(s): The flares (control devices) are not used to comply with applicable subparts of 40 CFR 60 and 40 CFR 61. As such, the requirements in Subpart A, General Provisions, specifically at 40 CFR 60.18(b) do not apply to these flares {see 40 CFR 60.18(a)}.

Flare Project

B.1. Compliance Plan. A concurrent minor source air construction (AC) permit application was submitted with the renewal. The minor source AC permit application was for this emissions unit, the flares. Permit No. 1190053-002-AC authorized construction of the flares.

- Solar Spark Flares:** The permittee was authorized to install up to ten (10) landfill gas powered Solar Spark® (or equivalent) flares for the removal and combustion of landfill gas (LFG).
- Compliance:** Initial compliance, e.g., an initial sampling of the H₂S in the LFG, has not been demonstrated. This compliance plan is for the initial demonstration prior to operation of the flares in the renewed Title V air operation permit. An initial sampling of the H₂S in the LFG is required under this compliance plan. The results shall be submitted to the compliance authority. The results shall be kept onsite.
- Reporting:** The permittee shall notify the compliance authority of when the flares have been installed. [Permit No. 1190053-002-AC; and, Rule 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.]
[Rules 62-213.440(1) & 213.440(2), F.A.C.]

Operation & Maintenance

B.2. Capacity: Each flare is designed to process 90 scfm (standard cubic feet per minute) of LFG. The total flare capacity (maximum LFG rate to all 10 flares) shall not exceed 473,040,000 scf/year which is equivalent to 13,395,001 m³/year, i.e., 10 flares at the 90 scfm maximum. [Permit No. 1190053-002-AC; and, Rules 62-4.160(2), *Design*, and; 62-210.200, *Definitions - Potential to Emit (PTE)*, F.A.C.]

B.3. Operation & Maintenance (O&M): The flares shall be operated and maintained in accordance with the manufacturer's recommendations. The O&M manual shall be maintained on site. [Permit No. 1190053-002-AC; and, Rule 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.]

LFG Analysis

B.4. Sulfur Content Analysis: The permittee shall periodically sample the LFG for H₂S content to confirm that the actual H₂S in the LFG is below 7,500 ppm. An initial sampling of the H₂S in the LFG was required under the compliance plan above. Subsequent sampling of no less than every 5 years shall be submitted to the compliance authority. The results shall be kept onsite. [Permit No. 1190053-002-AC; and, Rule 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.]

[Table of Contents](#)